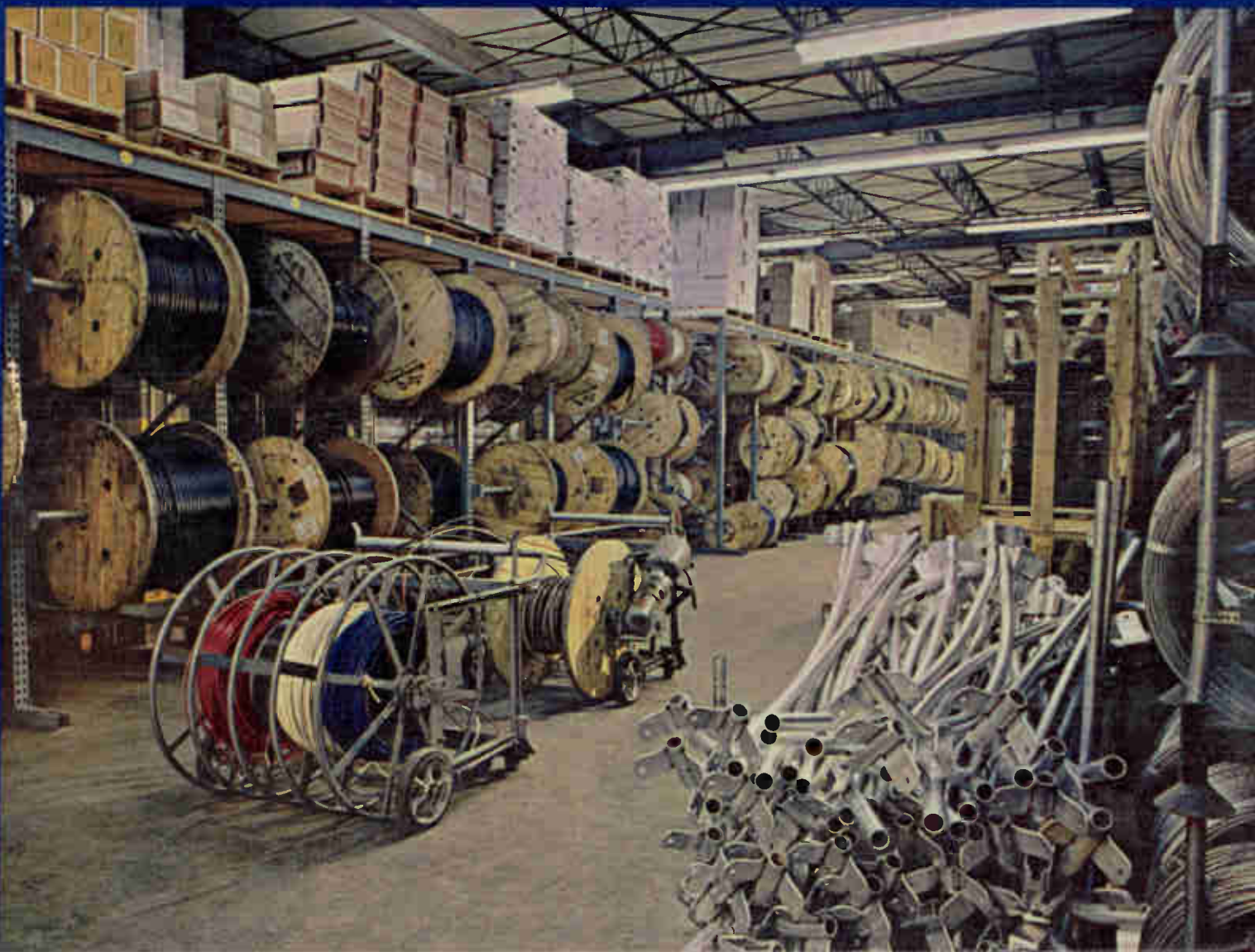


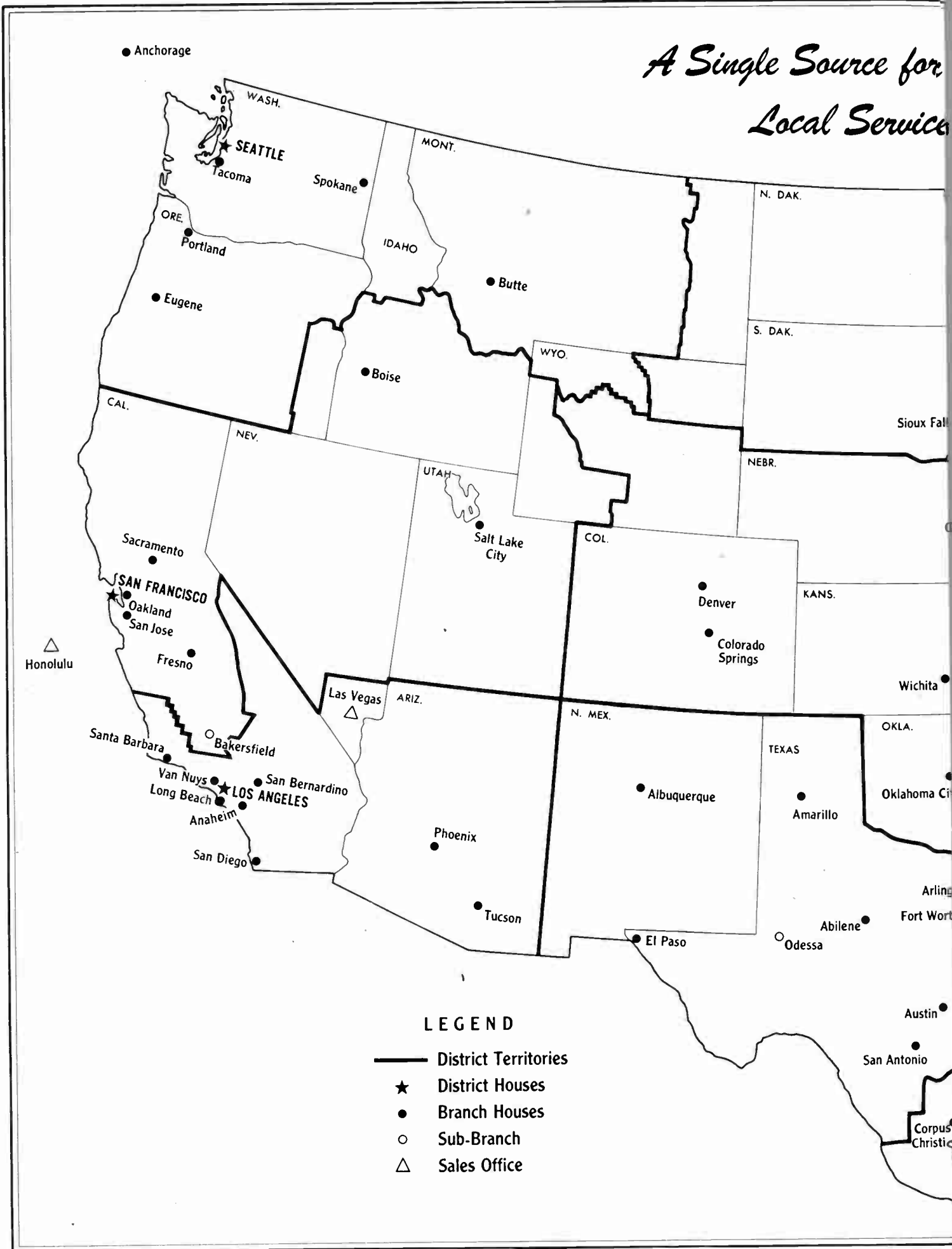
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GENERAL CATALOG

NO.106



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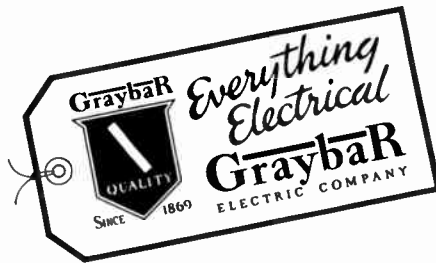
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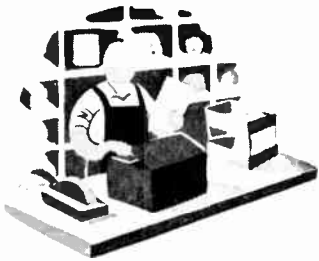
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TO OUR CUSTOMERS . . .

The Wire Section of this catalog has been prepared primarily to illustrate and describe the many standard types of wire and cables in everyday use . . . for light, power, control, telephone, communications and electronics wiring, for industry, and for the home.

Graybar distributes wire, cable and cords made only by leading manufacturers. These Suppliers are selected by Graybar for their integrity, engineering ability and conformance to standards set up by the IPCEA-NEMA Associations. While we list on the following 64 pages all the most popular types of wire, cable and cords manufactured by these Suppliers, it must be realized that it is not possible for us to stock every type and size at every one of our locations. Your needs and requirements, however, can be adequately met through our nationwide facilities, and prompt deliveries assured under normal conditions.

New types of wire are introduced periodically and in the event you cannot find a particular type of wire in this catalog, please call upon your nearest Graybar Distribution Center for assistance. We will welcome the opportunity to discuss your cable problems with you and recommend and furnish cables to meet unusual conditions of installation or operation.

DATA REQUIRED ON ORDERS, REQUISITIONS, OR REQUESTS FOR QUOTATIONS

1. Total length of each item.
2. Number of insulated conductors.
3. Size of conductors and whether solid or stranded.
4. Thickness of insulation and type.
5. Finish and jacket.
6. Rated voltage.
7. Cutting lengths and shipment requirements.
8. Any special specifications of cable involved.

ABBREVIATION LIST FOR TYPES OF WIRE AND CABLE

A	Asbestos-covered #18 to 8, solid or flexible copper, nickel-clad copper or nickel. No braid. 300V, 150C or 200C. See footnote.	AWG	American Wire Gauge. Copper wire.	EHV	Extra high voltage. 345KV and above. AC or DC.
AA	Asbestos and asbestos braid-covered solid, stranded, flexible or extra-flexible. Latter called motion picture wire. 300V, 150C or 200C. See footnote.	AWM	Appliance Wiring Material. 1, 2 or 3 conductor, flat, #20 to 10. Vinyl insulation. 600V or 1000V, 80C, 90C or 150C. Some AWM approved by both U.L. and C.S.A., latter as TEW. Neoprene insulation, 600V, 75C or 90C. Rubber insulation, 600V, 60C or 90C.	EO	Elevator control. Rubber insulation, cabled, cotton braid, neoprene jacket. With or without steel support.
AAR	Association of American Railroads.	AZA	Alathon Zytel Alathon. Polyethylene insulation and nylon on conductors, polyethylene jacket. 600V, 75C.	EPR	Ethylene propylene rubber.
ABC	Armored bushed BX-type building wire. 600V, 60C.	B	Braid.	ET	Elevator control. PVC insulation, cabled, 3 braids. With or without steel support.
AC	Alternating current.	B	Vinyl hookup wire. 600V. Uncovered, 105C. With nylon jacket, 115C. MIL-W-16878D.	F	Flat metallic armor.
ACA	#20 to 2, flexible, synthetic tapes, asbestos, flameproof cotton braid. Table 108. Or #14 and 12, 19 strand synthetic tapes, asbestos, lacquered cotton braid. Table EMA. Both 1000V, 90C.	B&S	Brown & Sharpe Gauge. Copper wire.	F	Electronic instrument wire, #24 to 12, stranded, silicone insulation, with or without glass braid. 600V, 200C.
ACSR	Aluminum line conductor with core of steel reinforcing strand(s).	BW	Basket weave. Armor braid of aluminum, steel, bronze, copper or stainless steel wire.	FA	Fire alarm cable with twisted pairs. IMSA.
ACSR	Aluminum line conductor with Alumoweld reinforcing strand(s).	BWG	Birmingham Wire Gauge. Steel wire.	FF	Flexible fixture. Rubber insulation, braid FF-1 and FF-2, 60C. FFH-1 and FFH-2, 75C. Also FF electronic instrument wire, #24 to 4/0 flexible, silicone insulation, with or without glass braid. 1000V, 200C.
ACT	BX-type armored building wire. 600V, 60C.	BX	Armored building wire. Type ACT. 600V, 60C.	FLPF	Flameproof.
ACV	Multi-conductor, VC insulation with interlocked armor. 600 to 15,000V.	BXL	Armored, lead-covered building wire. 600V, 60C.	FRMR	Flame-retarding, moisture-resisting finish.
AEIC	Association of Edison Illuminating Cos.	C or Cdr.	Conductor.	G	Multi-conductor, rubber insulated, neoprene jacketed, hard service portable power cable with uninsulated ground wire(s). 600V to 5000V, 75C.
AF	Asbestos fixture, solid or flexible, plain or braided. 300V, 150C.	C	2 or more conductor cord. Insulation, braid, twisted, no covering overall. 300V or 600V. Temperature rating according to kind of insulation.	GN	Grounded neutral (of power system)
AFC	2 or 3 braided AF conductors, twisted, no covering overall. Flexible cord. 300V, 150C.	C	Vinyl hookup wire. 1000V plain, 105C. Nylon jacket, 115C. MIL-W-16878D.	GOR	Gasoline- and oil-resistant. Thermoplastic insulation, nylon jacket.
AFPD	2 or 3 AF conductors, twisted, cotton or asbestos braid overall. Flexible cord. 300V, 150C.	CB	Brewery cord. 2 conductor. Rubber insulation, waterproof braid, twisted, no covering overall. Small, 300V; large, 600V, 60C.	GR-S	Buna-S synthetic performance grade heat- and moisture-resistant rubber.
AFPO	2 AF conductors, laid parallel, cotton or rayon braid overall. Flexible cord. 300V, 150C.	CBN, CBO	Brewery cord. 2 conductor. Neoprene insulated, twisted, no covering overall. Small, 300V; large, 600V, 60C.	GR-I	Synthetic heat- and moisture-resistant butyl rubber.
AFS	2 or 3 AF conductors, twisted, rubber jacket. Flexible cord. 300V, 90C.	CF	Cotton fixture. Flexible, impregnated cotton. 300V, 90C. CFC, CFPD and CFPO represent CF cords similar to AF.	H	Heat-resistant.
AI	Same as A except moisture-resistant. 300V, 125C. See above.	CLP	Cross-linked polyethylene.	H	Type H shielded power cable. Metallic shielding tape over each insulated conductor.
AIA	Solid, stranded or flexible copper, asbestos insulation and asbestos braid. 600V, 125C.	CLX	Welded corrugated sheath of steel, aluminum, bronze or copper.	HMW	High molecular weight polyethylene.
AIEE	American Institute of Electrical Engineers.	CU	Copper.	HPD	Braided heater cord. 2 or 3 conductor, #18 to 12, 3000 cycles or 2 conductor, #18 or 16, 10,000 cycles. Rubber, asbestos, twisted, overall braid. 300V, 90C.
AMA	Same as AVA except mylar tapes in place of VC. See below.	CV	Continuous vulcanization process for thermosetting compounds like rubber, neoprene and cross-linked polyethylene.	HPN	Flat neoprene heater cord. 2 conductor, #18 or 16, 3000 cycles. 300V, 90C.
AMP	Ampere. Unit of current.	D	Double or duplex.	HSJ	Heater cord. #18 to 14, rubber, asbestos, cotton braid, twisted, rubber jacket, 3000 cycles. 300V, 90C.
ASA	American Standards Association.	D	Vinyl hookup wire. 3000V, 105C. MIL-W-16878D.	HSO	Heater cord. Same as HSJ except neoprene jacket, #14 and 12. See above.
ASE	Armored service entrance. See SEU.	DB	Fibrous covering, consisting of two braids or tape and one braid.	HW	Heavy wall vinyl hookup wire. May have neoprene jacket, braid or shield. #16 to 12, 2500V; #14 to 6, 600V, 80C. MIL-W-76B.
ASTM	American Society for Testing Materials.	DBWP	Two weatherproofed cotton braids No voltage rating. 80C.	I(AC)	Interlocked armor of steel, aluminum or bronze.
AV, AVA, AVC	Asbestos and VC-insulated power and control cable.	DC	Direct current.	IEEE	Institute of Electrical and Electronic Engineers.
AVA	Asbestos, VC, asbestos, asbestos braid. 600V, 110C.	E	Elevator control. Rubber insulation, 3 overall braids. With or without steel support.	IMSA	International Municipal Signal Association. Specification for traffic control and fire alarm cable.
AVB	VC and asbestos insulation, flameproof cotton braid. Switchboard wire. 600V, 90C.	E, EE, ET	Extruded or taped TFE teflon (fluorocarbon resin). ET-300V, E-600V, EE-1000V. Silver-coated copper, 200C. Nickel-coated copper, 260C.	INS	Insulation.
AVL	Asbestos, VC, asbestos, lead sheath. 600V, 110C; 5000V, 100C.				
AVPD	2 or 3 conductor, flexible, asbestos and VC, twisted, asbestos braid. Flexible cord. 600V, 110C.				
AVPO	2 conductor, flexible, asbestos and VC, laid parallel, asbestos braid. Flexible cord. 600V, 110C.				

ABBREVIATION LIST FOR TYPES OF WIRE AND CABLE

IPCEA	Insulated Power Cable Engineers Association. Rubber specification S-19-81; plastic specification S-61-402. Others.	PD	Lamp cord. 2 conductor, rubber, braid, twisted braid. 300V, 60C.	RHML	Multi-conductor, heat-resistant rubber-lead building wire. 600V, 75C.
IPE	Irradiated polyethylene tape in place of VC in Type AVC.	PE	Polyethylene insulation or jacket.	RHRW	Heat- and moisture-resistant rubber insulated, braided building wire. Forerunner of RHW. 600V, 75C dry; 60C wet.
J	Asphalted jute covering.	PG	Portable rubber-neoprene mining cable. 2 or 3 power conductors, 1 uninsulated ground wire. 600V, 75C.	RHW	Heat- and moisture-resistant rubber insulated, braided building wire. 600V, 75C dry or wet.
K, KK, KT	Extruded FEP teflon (fluorocarbon resin) over stranded, silver-coated copper. KT-300V, K-600V, KK-1000V, 200C.	PILC	Same as PL. See below.	RHWN	Same as USE. See below.
KV	Kilovolt. One thousand volts.	PJ	1 conductor, #8 and larger, stranded, polyethylene insulation, PVC jacket. 600V, 75C.	RINJ	Rubber-insulated, neoprene-jacketed.
L(D)	Lead sheath.	PJJ	Multi-conductor, #8 and larger, stranded, polyethylene insulation, PVC jacket on conductors, PVC jacket overall. 600V, 75C.	RLJFJ	Rubber, lead, jute, 2 flat steel tapes, jute. Parkway cable for earth burial. Now use Type USE for most applications. 600V, 60C (75C with RH rubber).
LW	Light wall vinyl hookup wire. 300V, 80C. With nylon jacket, 90C. MIL-W-76B.	PL	Paper insulation impregnated with oil. Lead sheath. Splices and terminations must be moisture tight. For transmitting large blocks of power, usually at high voltage. 85C to 60C depending on voltage.	RML	Multi-conductor rubber-lead.
M	2 or more twisted conductors.	PN	1 conductor, #18 through 9, stranded, polyethylene insulation, nylon jacket. 600V, 75C.	RNB	Rubber-neoprene bus drop. 600V, 60C.
MC	Metal clad cable. Article 334 of 1965 NE code.	PNJ	Multi-conductor, #18 through 9, stranded, polyethylene insulation with nylon jacket on conductors, PVC jacket overall. 600V, 75C.	RR	RHW or butyl rubber insulation, neoprene jacket, 1 or multi-conductor power or control cable for use in ducts or conduit, aerial or buried. 600V to 15KV. 75C, 85C or 90C. Shielding tapes, terminated with stress cones, required above 5KV.
MCM	One thousand circular mils.	PNR	Control cable. Light polyethylene insulation, nylon jacket, conductors twisted, PVC jacket. 600V, 75C.	RRD	RR 1 conductor, #14 to 10, for use in ducts. 600V, 75C.
MHD	Medium hard-drawn temper.	PNR-X90	Control cable similar to PNR except tinned copper and high density polyethylene. 600V, 90C.	RSS-101	Flexible nickel-clad copper, special insulation combination, glass braid, 600V, 399C.
MI	1 or more conductors, magnesium oxide insulation, copper sheath. 600V, 85C. With suitable terminals, 250C.	PO	Flat 2 conductor, rubber insulated, rayon braided lamp cord. 300V or 600V, 60C.	RU	Latex 90% unmilled rubber. RUH, 75C dry; RUW, 60C wet.
ML	1 conductor, paper-lead cables, twisted, without overall covering.	POLY	Polyethylene.	RW	Moisture-resistant rubber-insulated, braided building wire. 600V, 60C. Forerunner of RHRW.
MM	Mining machine cable. See PBM.	POSJ	Now designated SP. See below.	RWS	Flexible 1 conductor, rubber-braid. 600V, 75C.
MPF	Mine power feeder. 3 conductor, butyl rubber, shielding tape, cabled with 3 ground wires, neoprene. 5000V to 15,000V, 90C.	POT	Now designated SPT. See below.	S	Hard service cord. Rubber insulation, twisted with fillers, rubber jacket. 600V, 60C.
MRFR	Moisture-resisting, flame-retarding finish.	PS	Non-metallic shielding tape.	S	Shielded cable. Terminate 2000V and higher voltage shielded cable with stress cones. IPCEA specifications include shielding recommendations.
MTW	PVC insulated machine tool wire. 600V, 90C in air, dry; 60C in oil.	PSJ	Same as PJ except with electrostatic shielding. See above.	S(R)A	Silicone insulation, asbestos braid.
MW	Medium wall vinyl hookup wire. May have nylon jacket, braid or shield. 1000V, 80C. With nylon, 90C. MIL-W-76B.	PVC	Polyvinyl chloride thermoplastic insulation or jacket.	SB	Single braid.
N(A)	Nylon (armored). Polyamide jacket, 105C.	R	Code grade rubber-braid building wire. 600V, 60C.	SBR	Styrene-butadiene synthetic rubber. Identified formerly as GRS.
NBS	National Bureau of Standards.	RB	Rubber-braid bus drop. 600V, 60C.	SEA	Armored (Style A) service entrance cable. Same as SEU except with flat steel armor under outer covering. See below.
NEC	National Electrical Code. Underwriters Laboratory Standard.	RD	Flat 2 conductor, rubber-braid building wire. 600V, 60C.	SER	Round, braided Type SE (Style SER) service entrance cable. In 3 conductor cable, all conductors RHW rubber insulated. In 4 conductor cable, three conductors RHW insulated and fourth is bare. 300V to ground, 75C.
NEMA	National Electrical Manufacturers Association.	RDL	Flat 2 conductor, rubber-lead building wire. 600V, 60C.	SEU	Service entrance, Style U. 2 RHW rubber-insulated conductors laid flat, neutral conductor served concentrically thereover, tape and braid or neoprene. 300V to ground, 75C.
90TW	Control cable. PVC insulation and jacket. 600V, 90C dry; 60C wet.	RF	Rubber-braid fixture wire. RF-1 #18- ¹ / ₆₄ " insulation, 300V, 60C; RF-2 #18 and 16- ³ / ₆₄ " insulation, 600V, 60C.	SF	Silicone fixture wire. See SR-FWF, etc.
NJ	Neoprene jacket.	RH	Heat-resistant rubber-braid building wire. 600V, 75C dry. Fore-runner of RHRW.	SH-A	Portable mine power cable. 3 or 4 conductor, butyl rubber or CLP insulation, shielding braid, cabled, mold-cured neoprene. 5000V, 75C to 90C.
NM	Non-metallic sheathed, Romex-type, 2 and 3 conductor building wire. Braid or PVC jacket, with or without ground wire. 600V, 60C dry.	RHD	Flat 2 conductor, heat-resistant rubber-braid building wire. 600V, 75C dry.		
NMC	Non-metallic, PVC sheathed corrosion- and moisture-resistant cable, with or without ground wire. Also classed as UF for earth burial in fused branch or feeder circuits. 600V, 60C dry or wet.	RHDL	Flat 2 conductor, heat-resistant rubber-lead building wire. 600V, 75C.		
NS	Non-shielded.	RHF	Heat-resistant rubber-braid fixture wire. 600V, 75C. See RF, RHF-1 and RHF-2.		
P	Paper insulation.	RHH	Heat-resistant rubber-braid building wire. 600V, 90C dry.		
P-BM	Surface embossed or indent marked legend indicates approval of portable power cable or cord by Pennsylvania and United States Bureaus of Mines for use in mines. Numerals between P and BM are manufacturer's identifying number.	RHL	Heat-resistant rubber-lead building wire. 600V, 75C.		
PCG	Portable rubber-neoprene mining cable. 2 or 3 power conductors, 2				

ABBREVIATION LIST FOR TYPES OF WIRE AND CABLE

SH-B	Portable mine power cable. 3 or 4 conductor, butyl rubber or CLP insulation, cabled, shielding braid, mold-cured neoprene. 5000V, 75C to 90C.	SSJ	Shielded 1 conductor with insulating jacket over shield.	20&10	Multi-conductor control cable. 20 mils polyethylene and 10 mils PVC insulation, PVC jacket. 600V, 75C dry or wet.
SH-C	Portable mine power cable. 3 or 4 conductor, butyl rubber or CLP insulation, cabled with bare ground wires, shielding braid, mold-cured neoprene jacket. 5000V, 75C to 90C.	ST	Hard service cord and portable control cable. PVC insulation and jacket. 600V, 60C.	UF	Underground (buried) branch circuit or feeder. Requires over-current protection. 1 conductor, #14 to 4/0, PVC. NMC multi-conductor type used for same service. 600V, 60C dry or wet.
SH-D	Portable mine power cable. 3 or 4 conductor, butyl rubber or CLP insulation, shielding braid, cabled with bare ground wires, mold-cured neoprene jacket. 5000V to 15,000V, 75C to 90C.	STO	Same as ST except special oil-resistant jacket.	UGN	Underground neutral (of power system).
SHD-GC	Portable mine power cable. 3 shielded power conductors, 1 insulated ground check wire, 2 ground wires.	SV	Vacuum cleaner cord. Rubber insulation and jacket. 300V, 60C.	U.L.	Underwriters' Laboratories. Provide building wire and cord approval service.
SJ	Junior grade hard service cord. Rubber insulation, twisted, rubber jacket. 300V, 60C.	SVO	Vacuum cleaner cord. Rubber insulation, neoprene jacket. 300V, 60C.	URC	Utility standard double or triple braid, weatherproof overhead line wire. No voltage rating—must be on insulators.
SJO	Same as SJ except neoprene jacket. Oil- and sunlight-resistant.	SVT	Vacuum cleaner cord. PVC insulation and jacket. 300V, 60C.	URD	Underground residential distribution cable.
SJT	Junior grade hard service cord. PVC insulation, twisted, PVC jacket. 300V, 60C.	T	PVC thermoplastic insulation or jacket compound. Type T building wire superseded by TW and THW.	USE (-RR)	Underground service entrance cable for use in ducts or direct earth burial. 1 conductor, RHW rubber, neoprene jacket. 2 conductor, RHW rubber, laid flat, neoprene jacket. 3 and 4 conductor, RHW rubber, cable 1, neoprene jacket. 600V, 75C.
SJTO	Same as SJT except special oil-resistant jacket.	TA	Switchboard wire. PVC and asbestos insulation, flameproof cotton braid. 600V, 90C.	V	Varnished cambric tape insulation.
SL	Same as ML. See above.	TAA	Appliance wire. Flexible nickel or nickel-clad copper, teflon and asbestos insulation, asbestos braid. 600V, 200C. See footnote.	V	Voltage.
SO	Hard service cord and portable control cable. 1 to 60 conductors, rubber insulation, cabled with fillers, neoprene jacket. 600V, 60C to 90C, depending on kind of rubber insulation.	TB	Bus drop. 3 conductor, PVC insulation, cabled with 3 bare ground wires, PVC jacket. 600V, 60C.	VCB	Varnished cambric insulation, cotton braid, FRMR finish. Usually 1 conductor, unshielded. 600V to 15KV ungrounded.
SP	Flat lamp cord. All rubber. #18 and 16. SP-1, 3/4" insulation; SP-2, 5/8" insulation. 300V, 60C.	TBS	Switchboard wire. PVC insulation, flame-proof cotton braid. 600V, 90C.	VCL	Varnished cambric insulation, lead sheath. Multi-conductor cables rated up to 8KV usually have part of insulation on individual conductors, balance as belt over twisted conductors. Cables rated above 8KV should have Type H (see above) shielded construction. Cable ends must be hermetically sealed.
SPT	Flat lamp cord. PVC. SPT-1, 3/4" insulation; SPT-2, 5/8" insulation; SPT-3, 5/8" insulation. 300V, 60C.	TBSB	Triple cotton braid, slowburning. No voltage rating. 90C. Install on insulators.	VCV	Vertical continuous vulcanization process.
SR-AW	Silicone appliance wire. Flexible tinned or nickel-plated copper, silicone rubber, glass braid. #16 to 12. 600V, 200C.	TBWP	Triple cotton braid, weatherproof overhead line wire. No voltage rating. 80C. Install on insulators.	VSP	Blend of basic polyethylene with special voltage stabilizing chemical additives.
SR-C	Silicone lighting wire. Solid tinned copper, silicone rubber, glass braid. #14 to 8. 600V, 125C.	TC	Traffic control cable. IMSA.	W	Portable hard service cables. 1 conductor, rubber insulation, open reinforcing braid, mold-cured neoprene jacket. Multi-conductor, rubber insulation, cabled, fillers may be integral with inner jacket, open reinforcing braid, mold-cured neoprene jacket. 600V, 60C, 75C or 90C.
SR-E	Silicone power cable. Stranded tinned copper, silicone rubber, asbestos braid. #14 to 500MCM. 600V, 125C.	TF	Fixture wire. Solid, #18 and 16, PVC insulation. 600V, 60C.	WP	Weatherproof line wire. 1 conductor, solid or stranded soft, medium hard or hard-drawn copper or aluminum or ACSR. Double or triple cotton braid, polyethylene or cross-linked polyethylene, PVC or neoprene covering. No voltage rating—must be installed on insulators. 80C.
SR-FWC	Silicone appliance (#18 to 10) and SF-2 fixture wire (#18 to 14). Stranded tinned copper, silicone rubber, glass braid. 600V, 200C.	TFF	Fixture wire. Flexible, #18 and 16, PVC insulation. 600V, 60C.	XLP(E)	Cross-linked polyethylene.
SR-FWF	Silicone appliance (#22 to 12) and SFF-2 fixture wire (#18 to 14). Flexible tinned copper, silicone rubber, glass braid. 600V, 150C.	TEW	See AWM above.		
SR-H	5000V silicone power cable, stranded tinned copper, silicone rubber, asbestos braid. 5000V, 125C.	TG(S)	Flexible nickel or nickel-clad copper, or iron conductor, teflon insulation, glass braid. 600V, 200C. See footnote.		
SR-M	(F-19/27, D-19/25, T-19/22). Silicone control cable. Tinned copper, silicone rubber, color coded glass braid, cabled, asbestos braid. 600V, 125C.	THW	Heat- and moisture-resistant PVC building wire. Superseding TW and braided RHW for many applications. 600V, 75C wet or dry; 60C in oil.		
SR-ML	Silicone apparatus and motor lead. Flexible tinned copper, #20 to 500MCM, silicone rubber, glass braid. 600V, 200C. AIEE Class H intermittent service rating. See footnote.	THWN	Nylon-jacketed thin wall THW building wire. #14 to 500 MCM. 600V. (Sizes #16 and 18 rated only as 105C appliance and 80C in oil). U.L. rating, 75C wet or dry building wire; 80C in oil; 105C appliance wire.		
		TP	Twisted pair.		
		TPE	Cross-linked polyethylene.		
		TPS	Shielded twisted pair.		
		TPSJ	Shielded twisted pair with overall insulating jacket.		
		TT	Twisted triad. Three twisted conductors.		
		TTS(J)	Shielded twisted triad. J indicates overall insulating jacket.		
		TQ	Twisted quad. Four twisted conductors.		
		TQS(J)	Shielded twisted quad (jacket overall).		
		TW	Moisture-resistant PVC building wire. 600V, 60C. Supersedes Type T but in turn is being superseded by Type THW.		

Footnote

Where a rating of 200C is shown it will be understood that copper conductors composed of less than 0.015" diameter (#27) strands are limited to 150C rating for continuous service. Strands of #27 or smaller gauge must be nickel-coated copper, nickel or monel metal for 200C rating.

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See the comprehensive index at the rear of catalog for a complete listing of all the types of wires, cables and cords shown in this catalog.

CONDUCTOR APPLICATION FOR GENERAL WIRING

1965 National Electrical Code
Table 310-2(a).

Trade Name	Type Letter	Max. Operating Temp.	Application Provisions
Rubber-Covered Fixture Wire Solid or 7-Strand	*RF-1	60°C 140°F	Fixture wiring. Limited to 300 V.
	*RF-2	60°C 140°F	Fixture wiring, and as permitted in Section 310-8.
Rubber-Covered Fixture Wire Flexible Stranding	*FF-1	60°C 140°F	Fixture wiring. Limited to 300 V.
	*FF-2	60°C 140°F	Fixture wiring, and as permitted in Section 310-8.
Heat-Resistant Rubber-Covered Fixture Wire Solid or 7-Strand	*RFH-1	75°C 167°F	Fixture wiring. Limited to 300 V.
	*RFH-2	75°C 167°F	Fixture wiring, and as permitted in Section 310-8.
Heat-Resistant Rubber-Covered Fixture Wire Flexible Stranding	*FFH-1	75°C 167°F	Fixture wiring. Limited to 300 V.
	*FFH-2	75°C 167°F	Fixture wiring, and as permitted in Section 310-8.
Thermoplastic-Covered Fixture Wire—Solid or Stranded	*TF	60°C 140°F	Fixture wiring, and as permitted in Section 310-8, and for circuits as permitted in Article 725.
Thermoplastic-Covered Fixture Wire—Flexible Stranding	*TFF	60°C 140°F	Fixture wiring, and as permitted in Section 310-8, and for circuits as permitted in Article 725.
Cotton-Covered, Heat-Resistant, Fixture Wire	*CF	90°C 194°F	Fixture wiring. Limited to 300 V.
Asbestos-Covered Heat-Resistant, Fixture Wire	*AF	150°C 302°F	Fixture wiring. Limited to 300 V. and Indoor Dry Location.
Silicone Rubber Insulated Fixture Wire	*SF-1	200°C 392°F	Fixture wiring. Limited to 300 V.
Solid or 7 Strand	*SF-2	200°C 392°F	Fixture wiring and as permitted in Section 310-8.
Silicone Rubber Insulated Fixture Wire	*SFF-1	150°C 302°F	Fixture wiring. Limited to 300 V.
Flexible Stranding	*SFF-2	150°C 302°F	Fixture wiring and as permitted in Section 310-8.
Code Rubber	R	60°C 140°F	Dry locations.
Heat-Resistant Rubber	RH	75°C 167°F	Dry locations.
Heat Resistant Rubber	RHH	90°C 194°F	Dry locations.
Cross Link Polyethylene RHH			
Moisture-Resistant Rubber	RW	60°C 140°F	Dry and wet locations. For over 2000 volts, insulation shall be ozone-resistant.
Moisture and Heat Resistant Rubber	RH-RW	60°C 140°F	Dry and wet locations. For over 2000 volts, insulation shall be ozone-resistant.
		75°C 167°F	Dry locations. For over 2000 volts, insulation shall be ozone-resistant.
Moisture and Heat Resistant Rubber	RHW	75°C 167°F	Dry and wet locations. For over 2000 volts, insulation shall be ozone-resistant.
Cross Link Polyethylene RHW			
Latex Rubber	RU	60°C 140°F	Dry locations.

*Fixture wires are not intended for installation as branch circuit conductors nor for the connection of portable or stationary appliances.

Trade Name	Type Letter	Max. Operating Temp.	Application Provisions
Heat Resistant Latex Rubber	RUH	75°C	Dry locations.
Moisture Resistant Latex Rubber	RUW	60°C 140°F	Dry and wet locations.
Thermoplastic	T	60°C 140°F	Dry locations.
Moisture-Resistant Thermoplastic	TW	60°C 140°F	Dry and wet locations.
Heat-Resistant Thermoplastic	THHN	90°C 194°F	Dry locations.
Moisture and Heat-Resistant Thermoplastic	THW	75°C 167°F	Dry and wet locations.
Moisture and Heat-Resistant Thermoplastic	THWN	75°C 167°F	Dry and wet locations.
Thermoplastic and Asbestos	TA	90°C 194°F	Switchboard wiring only.
Thermoplastic and Fibrous Outer Braid	TBS	90°C 194°F	Switchboard wiring only.
Synthetic Heat-Resistant	SIS	90°C 194°F	Switchboard wiring only.
Mineral Insulation (Metal Sheathed)	MI	85°C 185°F	Dry and wet locations with Type O termination fittings. Max. operating temperature for special applications 250°C.
Silicone-Asbestos	SA	90°C	Dry locations—max. operating temperature for special application 125°C.
Fluorinated Ethylene Propylene	FEP or FEPB	90°C 194°F 200°C 392°F	Dry locations. Dry locations—special applications.
Varnished Cambric	V	85°C 185°F	Dry locations only. Smaller than No. 6 by special permission.
Asbestos and Varnished Cambric	AVA	110°C 230°F	Dry locations only.
Asbestos and Varnished Cambric	AVL	110°C 230°F	Dry and wet locations.
Asbestos and Varnished Cambric	AVB	90°C 194°F	Dry locations only.
Asbestos	A	200°C 392°F	Dry locations only. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AA	200°C 392°F	Dry locations only. Open wiring. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AI	125°C 257°F	Dry locations only. In raceways, only for leads to or within apparatus. Limited to 300 V.
Asbestos	AIA	125°C 257°F	Dry locations only. Open wiring. In raceways, only for leads to or within apparatus.
Paper		85°C 185°F	For underground service conductors, or by special permission.

CONDUCTOR — CONDUIT DESIGN INFORMATION

1965 National Electrical Code

Notes To Tables 310-12 through 310-15.

Ampacity. The maximum, continuous, ampacities of copper conductors are given in Tables 310-12 and 310-13. The ampacities of aluminum conductors are given in Tables 310-14 and 310-15.

1. Explanation of Tables. For explanation of Type Letters, and for recognized size of conductors for the various conductor insulations, see Sections 310-2 and 310-3. For installation requirements, see Section 310-1 through 310-7, and the various Articles of this Code. For flexible cords see Tables 400-9 and 400-11.

2. Application of Tables. For open wiring on insulators and for concealed knob-and-tube work, the allowable ampacities of Tables 310-13 and 310-15 shall be used. For all other recognized wiring methods, the allowable ampacities of Tables 310-12 and 310-14 shall be used, unless otherwise provided in this Code.

3. Aluminum Conductors. For aluminum conductors, the allowable ampacities shall be in accordance with Tables 310-14 and 310-15.

4. Bare Conductors. Where bare conductors are used with insulated conductors, their allowable ampacities shall be limited to that permitted for the insulated conductors of the same size.

5. Type MI Cable. The temperature limitation on which the ampacities of Type MI cable are based, is determined by the insulating materials used in the end seal. Termination fittings incorporating unimpregnated organic insulating materials are limited to 85°C. operation.

6. Ultimate Insulation Temperature. In no case shall conductors be associated together in such a way with respect to the kind of circuit, the wiring method employed, or the number of conductors, that the limiting temperature of the conductors will be exceeded.

7. Use of Conductors With Higher Operating Temperatures. Where the room temperature is within 10 degrees C of the maximum allowable operating temperature of the insulation, it is desirable to use an insulation with a higher maximum allowable operating temperature; although insulation can be used in a room temperature approaching its maximum allowable operating temperature limit if the current is reduced in accordance with the Correction Factors for different room temperatures.

8. More Than Three Conductors in a Raceway or Cable. Tables 310-12 and 310-14 give the allowable ampacities for not more than three conductors in a raceway or cable. Where the number of conductors in a raceway or cable exceeds three, the allowable ampacity of each conductor shall be reduced as shown in the following Table:

Table 3. Combination of Conductors

(See Sections 346-6, 346-11 and 348-6)

For groups or combinations of conductors not included in Table 1, Chapter 9, for new work, or Tables 1, 1A or 1B Chapter 9, for rewiring, the conduit or tubing shall be of such size that the sum of the cross-sectional areas of the individual conductors will not be more than the percentage of the interior cross-sectional area of the conduit or tubing shown in the following table:

	Per Cent Area of Conduit or Tubing				
	Number of Conductors				
	1	2	3	4	Over 4
Conductors (not lead covered)	53	31	40	40	40
Lead-covered conductors	55	30	40	38	35

For ampacity of more than three conductors in a conduit or tubing, see Tables 310-12 through 310-15, Note 8.

See Tables 4 through 8, Chapter 9, for dimensions of conductors, conduit and tubing.

Number of Conductors	Per Cent of Values in Tables 310-12 and 310-14
4 to 6	80
7 to 24	70
25 to 42	60
43 and above	50

Exception No. 1 — When conductors of different systems, as provided in Section 300-3, are installed in a common raceway the derating factors shown above apply to the number of Power and Lighting (Articles 210, 215, 220 and 230) conductors only.

Where the number of conductors in a raceway or cable exceeds three, or where single conductors or multi-conductor cables are stacked or bunched without maintaining spacing as required in Article 318 and are not installed in raceways, the individual ampacity of each conductor shall be reduced as shown in the above table.

Exception No. 2 — The derating factors of Sections 210-23(b) and 220-2 (second paragraph) do not apply when the above derating factors are also required.

9. Where Type RH-RW rubber insulated wire is used in wet locations the allowable ampacities shall be that of Column 2 in Tables 310-12 through 310-15. Where used in dry locations the allowable ampacities shall be that of Column 3 in Tables 310-12 through 310-15.

10. Overcurrent Protection. Where the standard ratings and settings of overcurrent devices do not correspond with the ratings and settings allowed for conductors, the next higher standard rating and setting may be used.

Exception — Except as limited in Section 240-5.

11. Neutral Conductor. A neutral conductor which carries only the unbalanced current from other conductors, as in the case of normally balanced circuits of three or more conductors, shall not be counted in determining ampacities as provided for in Note 8.

In a 3-wire circuit consisting of two phase wires and the neutral of a 4-wire, 3-phase WYE connected system, a common conductor carries approximately the same current as the other conductors and is not therefore considered as a neutral conductor.

12. Voltage Drop. The allowable ampacities in Tables 310-12 through 310-15 are based on temperature alone and do not take voltage drop into consideration.

Maximum Number of Conductors in Trade Sizes of Conduit or Tubing

Derating factors for more than three conductors in raceways, see Note 8, Tables 310-12 through 310-15.

(See Section 300-17, 300-18, 346-6 and 348-6)

New Work or Rewiring — Types RF-2, RFH-2, R, RH, RW, RHH, RHW, RH-RW

New Work — FEP, FEPB, RUH, RUW, T, TF, THHN, THW, THWN, TW

Table 1. New Work or Rewiring

Size AWG or MCM	Maximum Number of Conductors in Conduit or Tubing (Based upon % conductor fill, Table 3, Chap. 9, for new work)											
	1/2 Inch	3/4 Inch	1 Inch	1 1/4 Inch	1 1/2 Inch	2 Inch	2 1/2 Inch	3 Inch	3 1/2 Inch	4 Inch	5 Inch	6 Inch
18	7	12	20	35	49	80	115	176				
16	6	10	17	30	41	68	98	150				
14	4	6	10	18	25	41	58	90	121	155		
12	3	5	8	15	21	34	50	76	103	132	208	
10	1	4	7	13	17	29	41	64	86	110	173	
8	1	3	4	7	10	17	25	38	52	67	105	152
6	1	1	3	4	6	10	15	23	32	41	64	93
4	1	1	1	3*	5	8	12	18	24	31	49	72
3		1	1	3	4	7	10	16	21	28	44	63
2		1	1	3	3	6	9	14	19	24	38	55
1		1	1	1	3	4	7	10	14	18	29	42
0			1	1	2	4	6	9	12	16	25	37
00			1	1	1	3	5	8	11	14	22	32
000			1	1	1	3	4	7	9	12	19	27
0000			1	1	1	2	3	6	8	10	16	23
250				1	1	1	3	5	6	8	13	19
300				1	1	1	3	4	5	7	11	16
350				1	1	1	1	3	5	6	10	15
400				1	1	1	1	3	4	6	9	13
500				1	1	1	1	3	4	5	8	11
600					1	1	1	1	3	4	6	9
700					1	1	1	1	3	3	6	8
750					1	1	1	1	3	3	5	8
800					1	1	1	1	2	3	5	7
900					1	1	1	1	1	3	4	7
1000						1	1	1	1	3	4	6
1250						1	1	1	1	1	3	5
1500							1	1	1	1	3	4
1750								1	1	1	2	4
2000									1	1	1	3

* Where an existing service run of conduit or electrical metallic tubing does not exceed 50 ft. in length and does not contain more than the equivalent of two quarter bends from end to end, two No. 4 insulated and one No. 4 bare conductors may be installed in 1-inch conduit or tubing.

Table 1A. Rewiring — Types TF, T, THW, TW, RUH, RW

Size AWG or MCM	1/2 Inch	3/4 Inch	1 Inch	1 1/4 Inch	1 1/2 Inch	2 Inch	2 1/2 Inch	3 Inch	3 1/2 Inch	4 Inch	5 Inch	6 Inch
18	13	24	38	68	93	152						
16	11	19	31	55	75	123	176	270				
14	5	10	16	29	40	65	93	143	192			
12	4	8	13	24	32	53	76	117	157	202		
10	4	6	11	19	26	43	61	95	127	163	257	
8	1	4	6	11	15	25	36	56	75	96	152	219
6	1	2	4	7	10	16	23	36	48	62	97	141
4	1	1	3	5	7	12	17	27	36	46	73	106
3	1	1	2	4	6	10	15	23	31	40	63	91
2	1	1	1	4	5	9	13	20	27	34	54	78
1		1	1	2	4	6	9	14	19	25	39	57
0		1	1	2	3	5	8	12	16	21	33	48
00		1	1	1	3	4	7	10	14	18	28	41
000			1	1	2	4	5	9	12	15	24	35
0000			1	1	1	3	5	7	10	13	20	29
250				1	1	2	4	6	8	10	16	23
300				1	1	2	3	5	7	9	14	20
350				1	1	1	3	4	6	8	12	18
400				1	1	1	2	4	5	7	11	16
500					1	1	1	3	4	6	9	14
600					1	1	1	3	4	5	7	11
700						1	1	2	3	4	7	10
750						1	1	2	3	4	6	9
800						1	1	1	3	4	6	9
900						1	1	1	2	3	5	8
1000							1	1	2	3	5	7
1250								1	1	2	4	6
1500									1	1	3	5
1750										1	1	3
2000											1	2

Table 1B. Rewiring — Types FEP, FEPB, THHN, THWN.

Size AWG or MCM	1/2 Inch	3/4 Inch	1 Inch	1 1/4 Inch	1 1/2 Inch	2 Inch	2 1/2 Inch	3 Inch	3 1/2 Inch	4 Inch	5 Inch	6 Inch
14	13	24	39	69	94	154	220					
12	10	18	29	51	70	114	164	252				
10	6	11	18	32	44	72	104	160	215	276		
8	3	6	10	19	26	42	60	93	125	160	252	
6	1	4	6	11	15	25	37	56	76	98	154	222
4	1	2	4	7	9	16	22	35	47	60	94	136
3	1	1	3	6	8	13	19	29	39	51	80	116
2	1	1	3	5	7	11	16	25	33	43	67	97
1		1	1	3	5	8	12	18	25	32	50	72
0		1	1	3	4	7	10	15	21	27	42	61
000		1	1	2	3	6	8	13	17	22	35	51
0000			1	1	3	5	7	11	14	18	29	42
0000			1	1	2	4	6	9	12	15	24	35
250				1	1	1	3	4	7	9	12	20
300				1	1	1	3	4	6	8	11	17
350				1	1	1	2	3	5	7	9	15
400				1	1	1	1	3	5	6	8	13
500				1	1	1	1	2	4	5	7	11

CROSS LINK POLYETHYLENE POWER CABLE

Copper Conductor — 600 Volts



Single conductor cross link Polyethylene insulated cable suitable for use in wet or dry locations at temperatures not exceeding 90°C. All sizes may be installed in conduit or duct or other recognized raceways. Sizes 8 AWG and larger are also suitable for direct burial and for properly supported aerial installations.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	1	.030	.13	17	
12	1	.030	.15	25	
10	1	.030	.17	38	
8	1	.045	.23	60	
14	7	.030	.14	18	
12	7	.030	.16	27	
10	7	.030	.18	40	
8	7	.045	.24	63	
6	7	.045	.28	98	
4	7	.045	.33	153	
2	7	.045	.39	235	
1	19	.055	.45	312	
1/0	19	.055	.49	369	
2/0	19	.055	.54	453	
3/0	19	.055	.59	559	
4/0	19	.055	.65	710	
250	37	.065	.71	835	
300	37	.065	.77	993	
350	37	.065	.82	1151	
500	37	.065	.95	1648	
750	61	.080	1.17	2537	
1000	61	.080	1.33	3245	

Packaging: Sizes 14 through 8 AWG, 500' carton and 2500' reel; 6 AWG and larger, 1000' reel.

TYPE USE CROSS LINK POWER CABLE

Copper and Aluminum Conductor — 600 Volts



Single conductor cross link Polyethylene Type RHH-RHW insulated wire approved by UL for direct burial, conduit or raceway and aerial installations for operation at 90°C in dry locations and 75°C in wet or dry locations.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
6	7	5	.35	114	63
4	7	5	.40	170	83
3	7	5	.43	204	100
2	7	5	.46	255	117
1	19	6	.53	337	162
1/0	19	6	.57	400	183
2/0	19	6	.62	479	212
3/0	19	6	.67	596	249
4/0	19	6	.73	744	301
250	37	7	.80	887	366
300	37	7	.86	1059	420
350	37	7	.91	1212	478
400	37	7	.96	1375	536
500	37	7	1.04	1702	656
600	61	8	1.15	2009	760
750	61	8	1.26	2540	982
1000	61	8	1.43	3362	1275

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

STYLE RR POWER CABLE

Copper and Aluminum Conductor — 600 Volts



Single conductor insulated cable with jacket suitable for operation in wet or dry locations.

Rubber Neoprene—Max. operating temperature 75°C. Type RHW insulation with Neoprene jacket. Identified as Type RHW for conduit and duct installations; as Type USE for direct burial as well as conduit, duct and aerial installations.

Butyl Neoprene—Max. operating temperature 90°C. Butyl insulation with Neoprene jacket. Suitable for use in conduit, racks or trays. Size 8 AWG and larger for aerially and direct burial applications; size 10 AWG and smaller not for direct burial application.

Butyl PVC—Same as Butyl Neoprene except with Polyvinyl Chloride jacket.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	
					Copper	Aluminum
Type RHW—For Duct						
14	1	3	.015	.21	29	..
12	1	3	.015	.22	38	..
10	1	3	.015	.24	52	..
14	7	3	.015	.21	30	..
12	7	3	.015	.23	40	..
10	7	3	.015	.26	55	..
Type USE—For Direct Burial						
12	1	3	.030	.24	44	..
10	1	3	.030	.26	58	..
8	1	3	.030	.32	88	..
12	7	3	.030	.25	46	..
10	7	3	.030	.28	62	..
8	7	4	.030	.34	93	..
6	7	4	.030	.38	130	75
4	7	4	.030	.43	187	99
2	7	4	.030	.49	275	134
1	19	5	.045	.59	370	190
1/0	19	5	.045	.63	449	219
2/0	19	5	.045	.68	547	257
3/0	19	5	.045	.72	662	302
4/0	19	5	.045	.78	812	360
250	37	6	.065	.89	990	458
300	37	6	.065	.95	1160	524
350	37	6	.065	1.00	1330	585
400	37	6	.065	1.04	1502	649
500	37	6	.065	1.13	1835	770
600	61	7	.065	1.24	2201	911
750	61	7	.065	1.34	2703	1094
1000	61	7	.065	1.49	3522	1363

Packaging: Sizes 14 through 8 AWG, 500' carton and 2500' reel; 6 AWG and larger, 1000' reel.

CATHODIC PROTECTION CABLE

Copper Conductor — 600 Volts



Single conductor Polyethylene insulated cable with Polyvinyl Chloride jacket suitable where resistance to abrasion, impact, flame and weathering is desired.

Size AWG	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket		
8	7	4	3	.38	100
6	7	4	3	.41	137
4	7	4	3	.46	194
2	7	4	3	.52	282
1	19	5	3	.59	355
1/0	19	5	3	.63	431
2/0	19	5	3	.68	526
3/0	19	5	3	.73	644
4/0	19	5	3	.79	791

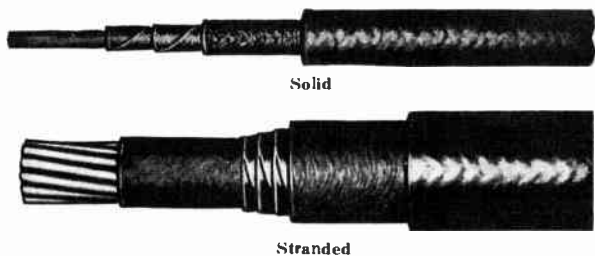
Packaging: 1000' reel.

Note: For special applications such as involving exposure to chlorine gas, similar cables having high molecular weight Polyethylene uni-insulation and jacket to the same outside diameters, are available. Also available in one-shot construction.

Price on Application

TYPE AVA POWER CABLE

Copper Conductor—600 Volts



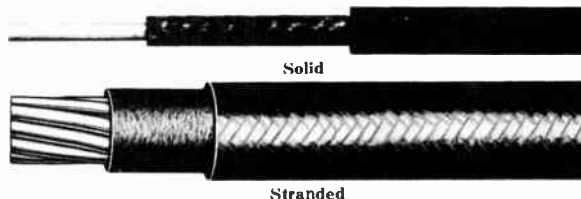
Single conductor, asbestos-varnished cambric-asbestos insulation, covered with an asbestos braid that is heat and flame resistant finish. For use in high ambient temperature locations. Maximum operating temperature 110°C.

Size AWG or MCM	No. Strands	Thickness Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Solid					
14	1	50	40	.245	40
12	1	50	40	.265	50
10	1	50	40	.285	65
8	1	50	40	.310	89
6	1	65	45	.385	135
Stranded					
14	7	55	40	.265	45
12	7	55	40	.285	55
10	7	55	40	.310	70
8	7	55	45	.350	95
6	7	65	45	.405	140
4	7	65	45	.455	200
3	7	65	45	.480	240
2	7	65	45	.515	285
1	19	80	45	.585	370
1/0	19	80	45	.625	450
2/0	19	80	45	.670	545
3/0	19	80	45	.720	665
4/0	19	80	45	.780	815
250	37	105	45	.875	985
300	37	105	45	.930	1155
350	37	105	45	.985	1325
400	37	105	45	1.030	1490
500	37	105	45	1.115	1825
750	61	110	45	1.310	2675
1000	61	110	45	1.465	3490

Packaging: Sizes 14 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

TYPE AIA ALL-ASBESTOS RHEOSTAT CABLE

Copper Conductor—600 Volts



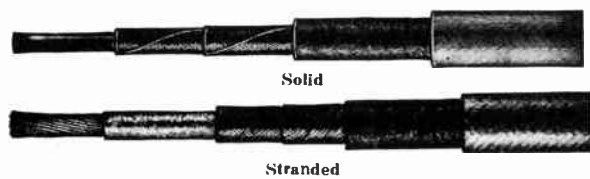
Single conductor insulated with a solid wall of asbestos and covered with an overall asbestos braid. Heat and flame resistant insulation. Maximum operating temperature 125°C.

Size AWG or MCM	No. Strands	Thickness Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Solid					
14	1	30	40	.205	32
12	1	30	40	.225	42
10	1	30	40	.245	56
8	1	30	40	.270	79
6	1	40	40	.325	115
4	1	40	45	.375	165
3	1	40	45	.400	205
2	1	40	45	.430	255
1	1	60	45	.500	320
1/0	1	60	45	.535	395
2/0	1	60	45	.575	485
3/0	1	60	45	.620	600
4/0	1	60	45	.670	745
Stranded					
14	7	30	40	.215	33
12	7	40	40	.255	47
10	7	40	40	.280	64
8	7	40	40	.310	90
6	7	60	45	.395	130
4	7	60	45	.445	185
3	7	60	45	.470	225
2	7	60	45	.505	270
1	19	75	45	.575	345
1/0	19	75	45	.615	420
2/0	19	75	45	.660	520
3/0	19	75	45	.710	635
4/0	19	75	45	.770	785
250	37	90	45	.845	920
350	37	90	45	.955	1245
400	37	90	45	1.000	1405
500	37	90	45	1.085	1730

Packaging: Sizes 14 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

TYPE AVB SWITCHBOARD WIRE

Copper Conductor—600 Volts



Single conductor, varnished cambric insulation covered with a wall of asbestos and a cotton braid overall which has a flame and moisture resistant finish. Maximum operating temperature 90°C.

Size AWG	No. Strands	Thickness Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Solid					
14	1	50	16	.200	30
12	1	50	16	.220	40
10	1	50	17	.240	55
8	1	50	17	.270	80
6	1	70	17	.340	125
4	1	70	17	.380	175
3	1	70	20	.415	215
2	1	70	20	.445	260
1	1	80	20	.495	330
1/0	1	80	20	.530	405
2/0	1	80	20	.570	495
3/0	1	80	20	.615	610
4/0	1	80	20	.665	750

Size AWG	No. Strands	Thickness Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Stranded					
14	7	50	16	.205	35
12	7	50	16	.225	45
10	7	50	17	.250	60
8	7	50	17	.280	80
6	7	70	17	.360	130
4	7	70	20	.415	185
3	7	70	20	.440	225
2	7	70	20	.475	280
1	19	80	20	.535	345
1/0	19	80	20	.575	420
2/0	19	80	20	.620	515
3/0	19	80	20	.670	620
4/0	19	80	20	.730	780

Packaging: Sizes 14 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

TYPE AVL POWER CABLE

Copper Conductor — 600 Volts



Single conductor, asbestos-varnished cambric-asbestos insulation, covered overall with a lead sheath. Suitable for use where exposed to high temperatures in combination with excessive condensation or complete submersion. Maximum operating temperature 110°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. Mils.	Sheath 64th In.		
18*	7	65	3	.270	195
16*	7	65	3	.285	205
14	7	65	3	.300	225
12	7	65	3	.320	250
10	7	65	3	.340	275
8	7	65	3	.370	325
6	7	70	3	.420	395
5	7	70	3	.440	455
4	7	70	3	.470	490
3	7	70	3	.495	550
2	7	70	4	.560	745
1	19	80	4	.620	875
1/0	19	80	4	.660	1000
2/0	19	80	4	.705	1125
3/0	19	80	4	.760	1290
4/0	19	80	4	.815	1490
250	37	105	5	.945	1985
300	37	105	5	1.000	2240
350	37	105	5	1.050	2445
400	37	105	5	1.095	2665
450	37	105	5	1.140	2925
500	37	105	5	1.180	3095
550	61	110	6	1.265	3780
600	61	110	6	1.300	3870
650	61	110	6	1.340	4130
700	61	110	6	1.375	4250
750	61	110	6	1.405	4515
800	61	110	6	1.440	4720
850	61	110	6	1.470	5030
900	61	110	6	1.500	5140
950	61	110	6	1.530	5395
1000	61	110	6	1.560	5540

*Not listed in National Electrical Code.
Packaging: 500' reel.

TYPE VCL VARNISHED CAMBRIC POWER CABLE

Copper Conductor — 600 Volts



Single conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aerially, direct burial or as open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Sheath		
14	1	3	3	.26	175
12	1	3	3	.27	199
10	1	3	3	.29	230
8	7	3	3	.34	284
6	7	4	3	.41	383
4	7	4	3	.46	472
2	7	4	3	.52	600
1	19	5	4	.62	868
1/0	19	5	4	.66	983
2/0	19	5	4	.71	1117
3/0	19	5	4	.76	1287
4/0	19	5	4	.82	1482
250	37	6	5	.92	1936
300	37	6	5	.98	2167
350	37	6	5	1.03	2392
400	37	6	5	1.08	2612
500	37	6	5	1.16	3047
600	61	7	6	1.31	3850
750	61	7	6	1.41	4491
1000	61	7	6	1.57	5520

Packaging: Reels 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

TYPE VCB VARNISHED CAMBRIC POWER CABLE

Copper Conductor — 600 Volts



Single conductor, varnished cambric insulated cable with an overall braid which is flame and moisture retarding. Installed in dry locations such as conduit and open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
14	7	3	.21	28
12	1	3	.22	35
12	7	3	.23	37
10	1	3	.24	49
10	7	3	.25	53
8	1	3	.27	72
8	7	3	.29	76
6	7	4	.36	122
4	7	4	.41	177
2	7	4	.47	261
1	19	5	.53	328
1/0	19	5	.58	405
2/0	19	5	.62	497
3/0	19	5	.67	612
4/0	19	5	.73	756
250	37	6	.81	903
300	37	6	.88	1077
350	37	6	.93	1241
400	37	6	.98	1404
500	37	6	1.09	1752
600	61	7	1.21	2118
750	61	7	1.31	2592
1000	61	7	1.46	3394

Packaging: Reels 1000' and longer.

TYPE SA SILICONE RUBBER POWER CABLE

Copper Conductor — 600 Volts



Single conductor, insulated with silicone rubber and covered by a heavy duty asbestos braid with a heat and moisture resistant finish. Maximum operating temperature 125°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Braid Mils		
14	7	3	40	.252	39
12	7	3	40	.271	44
10	7	3	40	.295	66
8	7	4	45	.358	102
6	7	4	45	.399	141
4	7	4	45	.447	203
2	7	4	45	.507	294
1	19	5	45	.577	374
1/0	19	5	45	.619	453
2/0	19	5	45	.665	549
3/0	19	5	45	.716	673
4/0	19	5	45	.774	822
250	37	6	45	.853	976
300	37	6	45	.908	1148
350	37	6	45	.959	1318
500	37	6	45	1.091	1823

Packaging: Sizes 14 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

Price on Application

TEFLON POWER AND CONTROL CABLE

Copper Conductor — 600-1000 Volts



Single conductor with Teflon 200°C rated FEP or 260°C rated TFE resin insulating material applied directly to conductor; no jacket. Used when a system may be subject to current overload conditions; resists the most severe conditions of industry. Highly resistant to chemicals and moisture.

Size AWG	No. Strands	600 Volts			601-1000 Volts		
		Insul. Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	Insul. Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
200°C Rated FEP							
22	7	.010	.050	4	.015	.060	5
20	7	.010	.058	5	.015	.068	6
18	7	.011	.070	8	.015	.078	9
16	19	.012	.080	10	.015	.088	11
14	19	.012	.095	14	.017	.105	17
12	19	.012	.115	23	.017	.125	25
10	37	.015	.140	33	.017	.144	36
8	133	.018	.210	63	.020	.214	62
6	133	.020	.250	95	.022	.254	100
4	133	.025	.315	150	.027	.319	155
2	133	.025	.385	235	.027	.389	240
1	259	.030	.440	300	.033	.446	310
260° Rated TFE							
22	7	.010	.050	4	.015	.060	5
20	7	.010	.058	5	.015	.068	6
18	7	.010	.068	8	.015	.078	9
16	19	.010	.078	10	.015	.088	11
14	19	.011	.096	14	.015	.105	17
12	19	.012	.116	23	.016	.125	25
10	37	.013	.136	33	.017	.144	36
8	133	.015	.204	60	.020	.214	62
6	133	.....	.....	100	.022	.254	100
4	133	.....	.....	150	.025	.314	150

Packaging: 500' carton or coil.

CROSS LINK POLYETHYLENE LEAD SHEATHED HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Single conductor cross link Polyethylene insulated cable with lead sheath overall. Suitable for use in wet or dry locations at temperatures not exceeding 90°C. May be installed in conduit or duct or other recognized raceways.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Lead Sheath		
6	7	.090	.047	.55	477
4	7	.090	.063	.60	714
2	7	.090	.063	.67	852
1	19	.090	.063	.70	958
1/0	19	.090	.063	.74	1073
2/0	19	.090	.063	.78	1211
3/0	19	.090	.063	.84	1376
4/0	19	.090	.078	.92	1807
250	37	.090	.078	.97	1991
300	37	.090	.078	1.03	2222
350	37	.090	.078	1.08	2449
500	37	.090	.078	1.21	3097
750	61	.100	.094	1.45	4528
1000	61	.100	.094	1.60	5665

Packaging: Reels 1000' and longer.

CROSS LINK POLYETHYLENE HIGH VOLTAGE POWER CABLE

Copper and Aluminum Conductor — 5000 Volts

Single conductor cross link Polyethylene insulated cable with Polyvinyl Chloride jacket suitable for use in wet or dry locations at temperatures not exceeding 90°C. May be installed in conduit or duct or other recognized raceways as well as aerially and direct burial.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.	
		Insul.	Jacket		Copper	Aluminum



Shielded						
6	7	.090	.060	.56	216	170
4	7	.090	.060	.62	280	195
2	7	.090	.060	.68	371	240
1	19	.090	.060	.72	444	270
1/0	19	.090	.060	.76	526	300
2/0	19	.090	.060	.81	627	380
3/0	19	.090	.080	.90	783	430
4/0	19	.090	.080	.96	942	490
250	37	.090	.080	1.01	1078	555
300	37	.090	.080	1.06	1253	615
350	37	.090	.080	1.12	1427	685
500	37	.090	.080	1.25	1942	870
750	61	.100	.080	1.46	2806	1180
1000	61	.100	.080	1.60	3641	1490

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.	
		Insul.	Jacket		Copper	Aluminum

Unshielded



8	7	.110	...	.40	96	...
6	7	.110	...	.44	132	71
4	7	.110	...	.49	190	93
2	7	.110	...	.54	275	125
1	19	.110	...	.58	340	145
1/0	19	.110	...	.62	409	175
2/0	19	.110	...	.67	503	205
3/0	19	.110	...	.72	618	245
4/0	19	.110	...	.78	776	295
250	37	.120	...	.85	900	350
300	37	.120	...	.90	1063	405
350	37	.120	...	.95	1240	460
400	37	.120	...	1.00	1386	520
500	37	.120	...	1.09	1781	625
600	61	.130	...	1.19	2055	750
750	61	.130	...	1.29	2545	910
1000	61	.130	...	1.45	3395	1180

Packaging: Reels 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

RUBBER HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts

Single conductor insulated cable with jacket suitable for operation in wet or dry locations where high resistance to ozone, heat and moisture is essential. Can be installed in conduit, underground ducts, aerially or direct burial.

Butyl Neoprene—Max. operating temperature 90°C. Butyl insulation with Neoprene jacket.

Butyl PVC—Same as Butyl Neoprene except with Polyvinyl Chloride jacket.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Jacket In.		

Shielded



8	7	7	.060	.60	310
6	7	7	.060	.64	360
4	7	7	.060	.69	460
2	7	7	.060	.76	560
1	19	7	.080	.84	725
1/0	19	7	.080	.88	815
2/0	19	7	.080	.93	930
3/0	19	7	.080	.99	1070
4/0	19	7	.080	1.04	1280
250	37	8	.080	1.13	1460
350	37	8	.080	1.24	1920
500	37	8	.080	1.38	2630
750	61	8	.080	1.57	3530
1000	61	8	.110	1.79	4820

Unshielded



8	7	7	.045	.54	195
6	7	7	.045	.58	250
4	7	7	.045	.63	325
2	7	7	.045	.69	425
1	19	7	.045	.74	510
1/0	19	7	.045	.78	605
2/0	19	7	.065	.87	760
3/0	19	7	.065	.92	895
4/0	19	7	.065	.98	1070
250	37	8	.065	1.06	1300
350	37	8	.065	1.17	1660
500	37	8	.065	1.31	2220
750	61	8	.065	1.51	3160
1000	61	8	.065	1.67	4550

Packaging: Reels 1000' and longer.

**TYPE SA SILICONE RUBBER
HIGH VOLTAGE POWER CABLE**

Copper Conductor — 5000 Volts



Single conductor, insulated with silicone rubber and covered by a heavy duty asbestos braid with a heat and moisture resistant finish. Maximum operating temperature 125°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Braid Mils		

Packaging: 500' reel.

These data are approximate and subject to normal manufacturing tolerances.

**RUBBER-LEAD SHEATHED HIGH
VOLTAGE POWER CABLE**

Copper and Aluminum Conductor — 5000 Volts



Single conductor Butyl rubber insulated cable with lead sheath overall. Suitable for use in wet or dry locations at temperatures not exceeding 90°C. May be installed in conduit or duct or other recognized raceways as well as aerially and direct burial.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.	
		Insul.	Lead Sheath		Copper	Aluminum

Unshielded—Grounded or Ungrounded Neutral

8	1	10	.063	.58	639	604
6	1	10	.063	.61	710	655
6	7	10	.063	.65	764	708
4	7	10	.063	.70	872	782
2	7	10	.063	.76	1030	883
1	19	10	.063	.80	1130	949
1/0	19	10	.078	.87	1460	1240
2/0	19	10	.078	.92	1620	1330
3/0	19	10	.078	.97	1800	1440
4/0	19	10	.078	1.02	2030	1570
250	37	11	.078	1.10	2280	1740
300	37	11	.078	1.16	2530	1880
350	37	11	.094	1.25	3070	2320
400	37	11	.094	1.29	3310	2450
500	37	11	.094	1.38	3770	2690
600	61	11	.094	1.46	4220	2930
750	61	11	.094	1.56	4880	3260
1000	61	11	.109	1.76	6380	4230

Packaging: Reels 1000' and longer.

**HIGH MOLECULAR POLYETHYLENE
HIGH VOLTAGE POWER CABLE**

Copper Conductor — 5000 Volts



Single conductor high molecular Polyethylene insulated cable with Polyvinyl Chloride jacket. Suitable for operation in conduits, underground ducts, aerially or direct burial in wet or dry locations at temperatures not exceeding 75°C.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket		

Shielded

6	7	.110	.060	.63	245
4	7	.110	.060	.68	324
2	7	.110	.060	.74	431
1	19	.110	.060	.78	485
1/0	19	.110	.060	.82	582
2/0	19	.110	.080	.91	683
3/0	19	.110	.080	.96	816
4/0	19	.110	.080	1.02	993
250	37	.120	.080	1.09	1158
300	37	.120	.080	1.14	1332
350	37	.120	.080	1.19	1509
500	37	.120	.080	1.32	2033
750	61	.130	.080	1.53	2950
1000	61	.130	.110	1.75	3900

Packaging: Reels 1000' and longer.

Price on Application

TYPE AVA HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Single conductor, asbestos-varnished cambric-asbestos insulation, covered with an asbestos braid that has heat and flame resistant finish. For use in high ambient temperature locations. Maximum operating temperature 110°C.

Size AWG or MCM	No. Strands	Thickness Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
10	7	160	45	.520	145
8	7	160	45	.550	180
6	7	160	45	.495	220
5	7	160	45	.610	255
4	7	160	45	.635	290
3	7	160	45	.660	335
2	7	160	45	.690	385
1	19	170	45	.755	480
1/0	19	170	45	.795	550
2/0	19	170	45	.840	645
3/0	19	170	45	.890	837
4/0	19	170	45	.950	925
250	37	185	45	1.025	1088
300	37	185	45	1.080	1280
350	37	185	45	1.130	1440
400	37	185	45	1.180	1615
450	37	185	45	1.222	1795
500	37	185	45	1.265	1955

Packaging: 500' reel.

TYPE VCB VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Single conductor, varnished cambric insulated cable with an overall braid which is flame and moisture retarding. Installed in dry locations such as conduit and open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
6	7	9	.52	170
4	7	9	.56	235
2	7	9	.62	326
1	19	9	.66	390
1/0	19	9	.71	467
2/0	19	9	.75	573
3/0	19	9	.80	679
4/0	19	9	.88	845
250	37	10	.95	993
300	37	10	1.03	1182
350	37	10	1.05	1332
400	37	10	1.10	1511
500	37	10	1.22	1858
600	61	10	1.30	2207
750	61	10	1.40	2681
1000	61	10	1.55	3505

Packaging: Reels 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

TYPE AVL HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Single conductor, asbestos-varnished cambric-asbestos insulation, covered overall with a lead sheath. Suitable for use where exposed to high temperatures in combination with excessive condensation or complete submersion. Maximum operating temperature 110°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. Mils	Lead Sheath 64th In.		
10	7	160	4	.565	615
8	7	160	4	.595	674
6	7	160	4	.630	750
5	7	160	4	.655	820
4	7	160	4	.680	860
3	7	160	4	.705	930
2	7	160	4	.740	1010
1	19	170	4	.800	1150
1/0	19	170	5	.870	1480
2/0	19	170	5	.915	1645
3/0	19	170	5	.970	1830
4/0	19	170	5	1.025	2055
250	37	185	5	1.105	2305
300	37	185	5	1.160	2544
350	37	185	6	1.240	3095
400	37	185	6	1.290	3335
450	37	185	6	1.330	3565
500	37	185	6	1.375	3800
550	61	190	6	1.425	4040
600	61	190	6	1.465	4280
650	61	190	6	1.500	4495
700	61	190	6	1.535	4715
750	61	190	6	1.570	4930
800	61	190	6	1.600	5145
850	61	190	6	1.630	5398
900	61	190	6	1.665	5570
950	61	190	7	1.725	6234
1000	61	190	7	1.755	6430

Packaging: 500' reel.

TYPE VCL VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Single conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aerially, or as open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Sheath		
8	7	9	4	.56	475
6	7	9	4	.60	692
4	7	9	4	.65	798
2	7	9	4	.71	949
1	19	9	4	.75	1051
1/0	19	9	4	.79	1172
2/0	19	9	5	.87	1522
3/0	19	9	5	.92	1708
4/0	19	9	5	.98	1931
250	37	10	5	1.05	2165
300	37	10	5	1.10	2403
350	37	10	5	1.15	2635
400	37	10	5	1.20	2850
500	37	10	6	1.32	3633
600	61	10	6	1.40	4075
750	61	10	6	1.50	4720
1000	61	10	6	1.66	5776

Packaging: Reels 1000' and longer.

Price on Application

**CROSS LINK POLYETHYLENE
HIGH VOLTAGE POWER CABLE**

**Copper and Aluminum Conductor—
8000 & 15000 Volts**



Single conductor cross link Polyethylene insulated cable with Polyvinyl Chloride jacket suitable for use in wet or dry locations at temperatures not exceeding 90°C. May be installed in conduit or duct or other recognized raceways as well as aerially and direct burial.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.	
		Insul.	Jacket		Copper	Aluminum
Shielded—8000 Volts—Grounded Neutral						
6	7	.115	.060	.63	241	...
4	7	.115	.060	.67	307	...
2	7	.115	.060	.73	406	...
1	19	.115	.060	.78	474	...
1/0	19	.115	.060	.82	556	...
2/0	19	.115	.080	.90	693	...
3/0	19	.115	.080	.95	820	...
4/0	19	.115	.080	1.01	980	...
250	37	.115	.080	1.06	1119	...
300	37	.115	.080	1.12	1295	...
350	37	.115	.080	1.17	1472	...
500	37	.115	.080	1.30	1991	...
750	61	.115	.080	1.49	2842	...
1000	61	.115	.080	1.64	3679	...
Shielded—8000 Volts—Ungrounded Neutral						
6	7	.140	.060	.69	288	...
4	7	.140	.060	.73	356	...
2	7	.140	.060	.79	459	...
1	19	.140	.060	.83	529	...
1/0	19	.140	.080	.91	649	...
2/0	19	.140	.080	.96	757	...
3/0	19	.140	.080	1.01	888	...
4/0	19	.140	.080	1.07	1051	...
250	37	.140	.080	1.12	1193	...
300	37	.140	.080	1.17	1374	...
350	37	.140	.080	1.23	1553	...
500	37	.140	.080	1.36	2081	...
750	61	.140	.080	1.55	2944	...
1000	61	.140	.110	1.76	3798	...
Shielded—15000 Volts—Grounded Neutral						
2	7	.175	.080	.94	620	360
1	19	.175	.080	.98	708	395
1/0	19	.175	.080	1.02	803	430
2/0	19	.175	.080	1.07	918	475
3/0	19	.175	.080	1.12	1050	530
4/0	19	.175	.080	1.18	1230	600
250	37	.175	.080	1.23	1370	635
300	37	.175	.080	1.28	1560	735
350	37	.175	.080	1.33	1750	800
500	37	.175	.080	1.46	2293	1000
750	61	.175	.080	1.65	3390	1320
1000	61	.175	.110	1.88	4260	1750
Shielded—15000 Volts—Ungrounded Neutral						
1	19	.215	.080	1.07	952	450
1/0	19	.215	.080	1.11	1046	490
2/0	19	.215	.080	1.15	1170	540
3/0	19	.215	.080	1.21	1308	595
4/0	19	.215	.080	1.26	1487	665
250	37	.215	.080	1.31	1702	730
300	37	.215	.080	1.37	1930	805
350	37	.215	.080	1.42	2156	875
500	37	.215	.080	1.55	2667	1080
750	61	.215	.080	1.80	3606	1515
1000	61	.215	.110	1.97	4493	1840

BUTYL HIGH VOLTAGE POWER CABLE

Copper Conductor — 8000 & 15000 Volts



Single conductor insulated cable with jacket suitable for operation in wet or dry locations. Can be installed in conduit, underground ducts, aerially or direct burial.

Butyl Neoprene—Max. operating temperature 90°C. Butyl insulation with Neoprene jacket.

Butyl PVC—Same as Butyl Neoprene except with Polyvinyl Chloride jacket.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Jacket In.		
Shielded—8000 Volts—Grounded Neutral					
6	7	12	.060	.82	355
4	7	12	.080	.89	455
2	7	12	.080	.96	585
1	19	12	.080	1.00	650
1/0	19	12	.080	1.03	750
2/0	19	12	.080	1.09	865
3/0	19	12	.080	1.14	1000
4/0	19	12	.080	1.19	1175
250	37	12	.080	1.25	1360
300	37	12	.080	1.30	1550
350	37	12	.080	1.35	1740
500	37	12	.080	1.48	2290
750	61	12	.080	1.67	3180
1000	61	12	.110	1.85	4100
Shielded—8000 Volts—Ungrounded Neutral					
6	7	16	.080	.97	475
4	7	16	.080	1.02	555
2	7	16	.080	1.08	675
1	19	16	.080	1.13	775
1/0	19	16	.080	1.17	870
2/0	19	16	.080	1.22	990
3/0	19	16	.080	1.27	1170
4/0	19	16	.080	1.33	1350
250	37	16	.080	1.36	1505
300	37	16	.080	1.43	1705
350	37	16	.080	1.49	1895
500	37	16	.080	1.60	2460
750	61	16	.110	1.82	3425
1000	61	16	.110	1.98	4315
Shielded—15000 Volts—Grounded Neutral					
2	7	14	.080	1.03	900
1	19	14	.080	1.07	980
1/0	19	14	.080	1.11	1075
2/0	19	14	.080	1.16	1290
3/0	19	14	.080	1.21	1440
4/0	19	14	.080	1.27	1780
250	37	14	.080	1.33	1935
350	37	14	.080	1.43	2330
500	37	14	.080	1.57	2900
750	61	14	.110	1.83	4420
1000	61	14	.110	1.99	5350
Shielded—15000 Volts—Ungrounded Neutral					
1	19	21	.080	1.28	1334
1/0	19	21	.080	1.32	1495
2/0	19	21	.080	1.37	1740
3/0	19	21	.080	1.43	1847
4/0	19	21	.080	1.48	2082
250	37	21	.080	1.53	2273
350	37	21	.080	1.65	2874
500	37	21	.110	1.84	3492
750	61	21	.110	2.03	4509
1000	61	21	.110	2.22	5683

Also available with Class C stranding.

Packaging: Reels 1000' and longer.

Packaging: Reels 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

TYPE VCB VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 8000 & 15000 Volts



Single conductor, varnished cambric insulated cable with an overall braid which is flame and moisture retarding. Installed in dry locations such as conduit and open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
Shielded—8000 Volts—Grounded Neutral				
6	7	11	.59	220
4	7	11	.64	295
2	7	11	.70	395
1	19	11	.75	490
1/0	19	11	.79	550
2/0	19	11	.83	650
3/0	19	11	.90	820
4/0	19	11	.95	960
250	37	11	1.00	1120
300	37	11	1.06	1310
350	37	11	1.11	1480
400	37	11	1.15	1620
500	37	11	1.27	2030
600	61	11	1.35	2380
750	61	11	1.45	2850
1000	61	11	1.62	3690
Shielded—8000 Volts—Ungrounded Neutral				
6	7	12	.62	239
4	7	12	.67	314
2	7	12	.74	410
1	19	12	.78	463
1/0	19	12	.82	552
2/0	19	12	.86	659
3/0	19	12	.93	795
4/0	19	12	.98	947
250	37	12	1.06	1195
300	37	12	1.12	1350
350	37	12	1.17	1448
400	37	12	1.22	1650
500	37	12	1.30	1981
600	61	12	1.38	2350
750	61	12	1.49	2850
1000	61	12	1.65	3693
Shielded—15000 Volts—Grounded Neutral				
6	7	16	.75	285
4	7	16	.80	350
2	7	16	.87	475
1	19	16	.93	575
1/0	19	16	.97	640
2/0	19	16	1.02	750
3/0	19	16	1.07	875
4/0	19	16	1.13	940
250	37	16	1.21	1280
300	37	16	1.26	1450
350	37	16	1.32	1650
400	37	16	1.36	1860
500	37	16	1.44	2100
600	61	16	1.53	2530
750	61	16	1.63	3140
1000	61	16	1.79	3875
Shielded—15000 Volts—Ungrounded Neutral				
6	7	21	.93	429
4	7	21	.98	500
2	7	21	1.03	602
1	19	21	1.09	710
1/0	19	21	1.17	804
2/0	19	21	1.21	921
3/0	19	21	1.27	1045
4/0	19	21	1.32	1210
250	37	21	1.37	1345
300	37	21	1.42	1550
350	37	21	1.48	1730
400	37	21	1.52	1920
500	37	21	1.61	2313
600	61	21	1.69	2640
750	61	21	1.80	3188
1000	61	21	1.95	4127

Packaging: Reels 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

TYPE VCL VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 8000 & 15000 Volts



Single conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aurally, or as open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Lead Sheath		
8000—Volts—Grounded Neutral					
6	7	11	4	.66	779
4	7	11	4	.71	890
2	7	11	4	.77	1043
1	19	11	4	.81	1145
1/0	19	11	5	.88	1484
2/0	19	11	5	.93	1654
3/0	19	11	5	.98	1822
4/0	19	11	5	1.03	2050
250	37	11	5	1.08	2236
300	37	11	5	1.14	2475
350	37	11	5	1.19	2700
400	37	11	6	1.27	3250
500	37	11	6	1.36	3738
600	61	11	6	1.44	4100
750	61	11	6	1.55	4825
1000	61	11	6	1.70	5875
8000 Volts—Ungrounded Neutral					
6	7	12	4	.70	833
4	7	12	4	.75	942
2	7	12	4	.81	1097
1	19	12	5	.88	1418
1/0	19	12	5	.92	1550
2/0	19	12	5	.96	1705
3/0	19	12	5	1.02	1892
4/0	19	12	5	1.08	2116
250	37	12	5	1.12	2308
300	37	12	5	1.17	2543
350	37	12	6	1.26	3092
400	37	12	6	1.30	3335
500	37	12	6	1.39	3805
600	61	12	6	1.47	4260
750	61	12	6	1.58	4900
1000	61	12	7	1.76	6402
15000 Volts—Grounded Neutral					
6	7	16	4	.82	1012
4	7	16	5	.90	1348
2	7	16	5	.96	1520
1	19	16	5	1.00	1655
1/0	19	16	5	1.04	1779
2/0	19	16	5	1.08	1936
3/0	19	16	5	1.14	2140
4/0	19	16	5	1.19	2357
250	37	16	6	1.27	2860
300	37	16	6	1.33	3120
350	37	16	6	1.38	3375
400	37	16	6	1.42	3600
500	37	16	6	1.51	4104
600	61	16	6	1.59	4550
750	61	16	6	1.70	5225
1000	61	16	7	1.88	6750
15000 Volts—Ungrounded Neutral					
6	7	21	5	1.01	1525
4	7	21	5	1.06	1650
2	7	21	5	1.12	1841
1	19	21	5	1.16	1975
1/0	19	21	5	1.20	2100
2/0	19	21	6	1.28	2600
3/0	19	21	6	1.33	2800
4/0	19	21	6	1.39	3050
250	37	21	6	1.44	3250
300	37	21	6	1.49	3691
350	37	21	6	1.54	3792
400	37	21	6	1.59	4050
500	37	21	6	1.70	4560
600	61	21	7	1.81	5475
750	61	21	7	1.91	6175
1000	61	21	7	2.07	7300

Packaging: Reels 1000' and longer.

Price on Application

CROSS LINK POLYETHYLENE POWER CABLE

Copper Conductor — 600 Volts



Three and four conductor cross link Polyethylene insulated cable with Polyvinyl Chloride jacket. Suitable for use in wet or dry locations at temperatures not exceeding 90°C. May be installed in conduit, open air, aerially or direct burial.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
		Insul.	Jacket			
Three Conductor						
8	7	.045	.060	.66	16	348
6	7	.045	.060	.74	14	522
4	7	.045	.080	.89	12	713
2	7	.045	.080	1.02	10	989
1	19	.055	.080	1.15	8	1269
1/0	19	.055	.080	1.24	8	1493
2/0	19	.055	.080	1.34	6	1720
3/0	19	.055	.080	1.45	5	2150
4/0	19	.055	.080	1.57	5	2732
250	37	.065	.110	1.78	4	3075
350	37	.065	.110	2.00	2	4095
500	37	.065	.110	2.29	1	5545
750	61	.080	.140	2.84	2/0	8972
Four Conductor						
8	7	.045	.060	.72	14	364
6	7	.045	.060	.81	12	584
4	7	.045	.080	.97	10	801
2	7	.045	.080	1.12	8	1185
1	19	.055	.080	1.27	6	1589
1/0	19	.055	.080	1.37	6	1859
2/0	19	.055	.080	1.48	4	2268
3/0	19	.055	.080	1.60	4	2747
4/0	19	.055	.110	1.80	3	3504
250	37	.065	.110	1.96	2	4041
350	37	.065	.110	2.22	1	5548
500	37	.065	.110	2.53	2/0	7526
750	61	.080	.140	3.15	4/0	10893

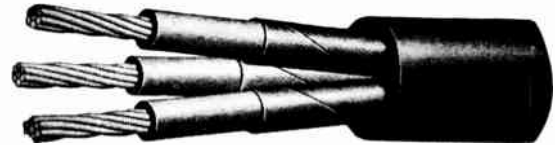
Packaging: Sizes 8 and 6 AWG, 1500' reel and longer; 4 through 1 AWG, 750' reel and longer; 1/0 and larger, 500' reel and longer.

TYPE RR POWER CABLE

Copper Conductor — 600 Volts



Two Conductor



Three Conductor

Two and three conductor Type RHW insulated wire with Neoprene jacket suitable for operation in wet or dry locations at a maximum temperature of 75°C. Can be installed in conduit, duct, aerially and direct burial.

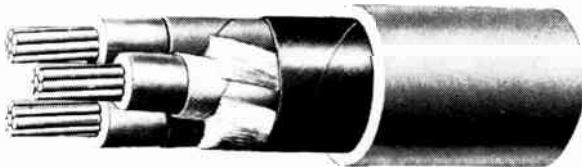
Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
12	1	3	.045	.31x.57	120
10	1	3	.045	.36x.59	165
8	1	4	.060	.42x.71	245
6	7	4	.060	.47x.81	350
4	7	4	.080	.55x.94	550
Type USE—Three Conductor					
12	1	3	.045	.57	205
10	1	3	.060	.64	260
8	1	4	.060	.76	380
6	7	4	.060	.86	555
4	7	4	.060	.99	760
2	7	4	.080	1.16	1085
1	19	5	.080	1.30	1825
1/0	19	5	.080	1.40	1580
2/0	19	5	.080	1.50	1895
3/0	19	5	.080	1.60	2270
4/0	19	5	.080	1.80	2975
250*	37	6	.110	1.98	3700
300*	37	6	.110	2.10	4350
350*	37	6	.110	2.21	4900
400*	37	6	.110	2.35	5000
500*	37	6	.110	2.40	6020

*Not UL approved.

Packaging: 1000' reel.

TYPE RHL POWER CABLE

Copper Conductor — 600 Volts



Two and three conductor rubber insulated cable, fibrous covered and lead sheath overall. Suitable for use in underground installations in conduit and duct. Maximum operating temperature 75°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Lead Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
14	1	2	2†	.21x.37	175
12	1	2	2†	.23x.40	206
10	1	3	3†	.32x.54	393
8	1	4	3†	.38x.67	526
6	1	4	4	.44x.76	805

†IPCEA and ASTM specifications require 1/8" heavier lead sheath.

Packaging: 14 through 2 AWG, 1000' reel; 1 AWG and larger, 500' reel.

These data are approximate and subject to normal manufacturing tolerances.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Lead Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
14	1	2	3	.45	363
12	1	2	3	.49	419
10	1	3	4	.64	715
8	1	4	4	.77	950
6	1	4	5	.87	1455
14	7	2	3	.47	390
12	7	2	3	.54	450
10	7	3	4	.67	760
8	7	4	4	.81	1015
6	7	4	5	.92	1520
4	7	4	5	1.03	1780
2	7	4	5	1.16	2240
1	19	5	6	1.33	2980
1/0	19	5	6	1.42	3340
2/0	19	5	6	1.52	3830
3/0	19	5	6	1.63	4370
4/0	19	5	7	1.79	5430
250	37	6	7	1.96	6320
300	37	6	7	2.08	7100
350	37	6	7	2.19	7830
400	37	6	8	2.32	9130
500	37	6	8	2.50	10550

Price on Application

**CROSS LINK POLYETHYLENE
AERIAL CABLE**

Copper Conductor — 600 Volts



Three conductor cross link Polyethylene insulated cable with 30% EHS copper-clad steel messenger for use in various aerial power cable installations in industrial and electric utility systems. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Mess. Size (*)	Net Wt. Lbs. M Ft.
8	7	.045	.58x .84	3-#8	374
6	7	.045	.64x .92	3-#8	551
4	7	.045	.75x1.02	3-#8	710
2	7	.045	.88x1.15	3-#8	899
1	19	.055	1.01x1.29	3-#8	1190
1/0	19	.055	1.11x1.39	3-#8	1402
2/0	19	.055	1.21x1.51	5/16"	1824
3/0	19	.055	1.32x1.62	5/16"	2050
4/0	19	.055	1.44x1.83	3/8"	2697
250	37	.065	1.59x1.97	3/8"	3041
350	37	.065	1.81x2.30	1/2"	4447
500	37	.065	2.10x2.67	9/16"	5942
750	61	.080	2.59x3.11	9/16"	8592

*Heavy loading span, 150'. Max. sag at 60°F., 2.5'.
Packaging: 1000' reel.

**TYPE VCL VARNISHED CAMBRIC
POWER CABLE**

Copper Conductor — 600 Volts



Three conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aerially, or as open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Sheath		
Three Conductor (Non-Belted)					
14	1	3	3	.45	360
12	1	3	3	.50	449
10	1	3	4	.65	754
8	7	3	4	.67	839
6	7	4	4	.84	1152
4	7	4	5	.97	1674
2	7	4	5	1.10	2093
1	19	5	6	1.25	2850
1/0	19	5	6	1.37	3182
2/0	19	5	6	1.46	3615
3/0	19	5	6	1.57	4196
4/0	19	5	6	1.70	4811
250	37	6	7	1.90	6010
300	37	6	7	2.02	6728
350	37	6	7	2.13	7485
400	37	6	8	2.26	8360
500	37	6	8	2.45	10119

Packaging: 1000' reel.

TYPE RLJFJ ARMORED (PARKWAY) CABLE

Copper Conductor — 600 Volts



Two Conductor



Three Conductor

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Lead Sheath In.	O.D. In.	Net Wt. Lbs. M Ft.
Two Conductor—Grounded or Ungrounded Neutral					
14	1	3	.047	.67x .86	581
12	1	3	.047	.68x .89	637
10	1	3	.063	.74x .96	853
8	1	4	.063	.79x1.08	1070
6	1	4	.063	.83x1.14	1210
6	7	4	.063	.85x1.19	1300
4	7	4	.078	.93x1.32	1750
2	7	4	.078	1.05x1.50	2310
1	19	5	.078	1.12x1.65	2720
1/0	19	5	.094	1.19x1.76	3310
2/0	19	5	.094	1.24x1.85	3670
3/0	19	5	.094	1.29x1.95	4110
4/0	19	5	.094	1.35x2.07	4620

These data are approximate and subject to normal manufacturing tolerances.

Two and three conductor cable with rubber insulation, tape binder, lead sheath, jute bedding, two flat steel tapes and jute serving overall. Suitable for direct burial on power, lighting and control circuits by individual and electric service companies.

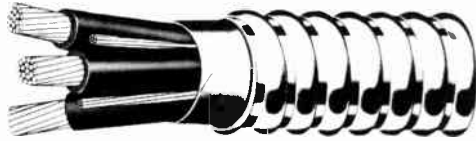
Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Lead Sheath In.	O.D. In.	Net Wt. Lbs. M Ft.
Three Conductor—Grounded or Ungrounded Neutral					
14	1	3	.063	.95	1040
12	1	3	.063	.99	1130
10	1	3	.063	1.03	1260
8	1	4	.063	1.16	1579
6	1	4	.078	1.26	2060
6	7	4	.078	1.31	2180
4	7	4	.078	1.48	2850
2	7	4	.078	1.61	3430
1	19	5	.094	1.80	4380
1/0	19	5	.094	1.89	4850
2/0	19	5	.094	1.98	5400
3/0	19	5	.094	2.10	6090
4/0	19	5	.109	2.26	7330
250	37	6	.109	2.43	8300
350	37	6	.109	2.66	10040
500	37	6	.125	2.97	13100

Packaging: 1000' reel.

Price on Application

**CROSS LINK POLYETHYLENE
INTERLOCKED GALVANIZED STEEL
ARMOR CABLE**

With Type RHH or RHW Conductors
Copper Conductor — 600 Volts



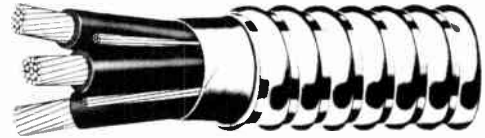
Three and four conductor cross link Polyethylene insulated cable with galvanized steel armor. Suitable for power circuits in central and substations, industrial plants and similar locations. Maximum operating temperatures: 90°C in dry location and 75°C in wet locations. Listed by UL as Type MC cable.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Three Conductor					
4	7	.062	1.02	12	779
2	7	.062	1.16	10	1070
1	19	.078	1.31	8	1379
1/0	19	.078	1.40	8	1683
2/0	19	.078	1.50	6	2088
3/0	19	.078	1.61	5	2615
4/0	19	.078	1.73	5	3262
250	37	.094	1.90	4	3684
350	37	.094	2.13	2	5059
500	37	.094	2.41	1	6965
750	61	.109	2.91	2/0	9738
1000	61	.109	3.25	3/0	12197
Four Conductor					
4	7	.062	1.08	10	928
2	7	.062	1.26	8	1474
1	19	.078	1.44	6	1775
1/0	19	.078	1.54	6	2145
2/0	19	.078	1.65	4	2766
3/0	19	.078	1.67	4	3443
4/0	19	.078	1.91	3	4018
250	37	.094	2.10	2	4669
350	37	.094	2.36	1	6298
500	37	.094	2.67	2/0	8957
750	61	.109	3.23	4/0	12107
1000	61	.109	3.61	250	15299

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

**CROSS LINK POLYETHYLENE
INTERLOCKED ALUMINUM
ARMOR CABLE**

Copper Conductor — 600 Volts



Three and four conductor cross link Polyethylene insulated cable with aluminum armor. Suitable for power circuits in central and substations, industrial plants and similar locations. For indoor and outdoor installation. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Three Conductor					
8	7	.045	.76	16	352
6	7	.045	.84	14	471
4	7	.045	.95	12	711
2	7	.045	1.08	10	989
1	19	.055	1.21	8	1257
1/0	19	.055	1.30	8	1546
2/0	19	.055	1.40	6	1926
3/0	19	.055	1.51	5	2437
4/0	19	.055	1.63	5	2940
250	37	.065	1.78	4	3392
350	37	.065	2.00	2	4624
500	37	.065	2.29	1	6464
750	61	.080	2.78	2/0	8947
Four Conductor					
8	7	.045	.82	14	418
6	7	.045	.91	12	599
4	7	.045	1.03	10	852
2	7	.045	1.18	8	1355
1	19	.055	1.33	6	1643
1/0	19	.055	1.43	6	1979
2/0	19	.055	1.54	4	2564
3/0	19	.055	1.66	4	3186
4/0	19	.055	1.80	3	3720
250	37	.065	1.96	2	4310
350	37	.065	2.22	1	5820
500	37	.065	2.53	2/0	8256
750	61	.080	3.09	4/0	10976

Note: Can be supplied with galvanized armor; also can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

BUTYL RUBBER INSULATED INTERLOCKED ARMOR CABLE

Copper Conductor — 600 Volts

Three and four conductor Butyl rubber insulated cable with galvanized steel or aluminum armor. Suitable for power circuits in central and substations, industrial plants and similar locations. For indoor and outdoor installations. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.	
					Galv. Armor	Alum. Armor
Three Conductor						
8	7	4	.90	16	413	303
6	7	4	.98	14	527	405
4	7	4	1.08	12	704	566
2	7	4	1.21	10	967	811
1	19	5	1.37	8	1175	996
1/0	19	5	1.46	8	1393	1201
2/0	19	5	1.56	6	1665	1452
3/0	19	5	1.67	5	2087	1799
4/0	19	5	1.80	5	2512	2191
250	37	6	1.97	4	2936	2592
350	37	6	2.19	2	3850	3469
500	37	6	2.48	1	5219	4915
750	61	7	2.96	2/0	7530	6995

These data are approximate and subject to normal manufacturing tolerances.



Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.	
					Galv. Armor	Alum. Armor
Four Conductor						
4	7	4	1.18	10	884	728
2	7	4	1.33	8	1320	1051
1	19	5	1.51	6	1492	1296
1/0	19	5	1.61	6	1778	1565
2/0	19	5	1.72	4	2231	1935
3/0	19	5	1.84	4	2670	2350
4/0	19	5	1.98	3	3214	2868
250	37	6	2.17	2	3783	3398
350	37	6	2.43	1	5003	4567
500	61	6	2.75	2/0	6789	6290

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

Price on Application

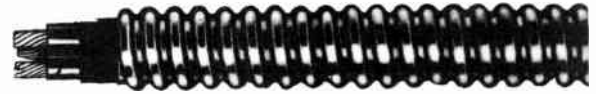
C-L-X METALLIC SHEATHED CABLE

Steel and Aluminum Sheath — 600 & 5000 Volts

Rubber insulated conductors, steel or aluminum sheath and Polyvinyl Chloride cover overall. Combines cable and conduit in one preassembled unit for use in a wide range of indoor and outdoor installations, buried, aerial, tray, etc. Impervious sheath seals the system against penetration by oil, water or chemicals, and eliminates the need for a separate duct. Extremely pliable, unlimited bends. Maximum conductor operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	CLX Metal O.D. In.	O.D. In.	Net Wt. Lbs. M Ft.
Steel Sheath—600 Volts					
14	7	3	.63	.77	320
12	7	3	.63	.77	350
10	7	3	.72	.87	450
8	7	4	.83	.98	590
6	7	4	.91	1.06	740
4	7	4	1.03	1.18	980
2	7	4	1.18	1.33	1340
1	19	5	1.48	1.63	1850
1/0	19	5	1.56	1.71	2110
2/0	19	5	1.73	1.87	2620
3/0	19	5	1.81	1.96	3120
4/0	19	5	1.97	2.12	3710
250	37	6	2.10	2.27	4300
300	37	6	2.22	2.39	4980
350	37	6	2.33	2.51	5820
400	37	6	2.46	2.63	6630
450	37	6	2.54	2.73	7130
500	37	6	2.71	2.90	8020

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	CLX Metal O.D. In.	O.D. In.	Net Wt. Lbs. M Ft.
Steel Sheath—5000 Volts—Non-Shielded					
8	7	10	1.48	1.63	1320
6	7	10	1.56	1.71	1530
4	7	10	1.64	1.79	1810
2	7	10	1.81	1.96	2280
1	19	10	1.97	2.12	2680
1/0	19	10	2.02	2.19	3020
2/0	19	10	2.14	2.31	3500
3/0	19	10	2.22	2.39	4100
4/0	19	10	2.36	2.53	4510
250	37	11	2.54	2.73	5710
300	37	11	2.71	2.90	6620
350	37	11	2.87	3.07	7240
400	37	11	3.00	3.20	8112
450	37	11	3.08	3.30	8890
500	37	11	3.16	3.38	9560



Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	CLX Metal O.D. In.	O.D. In.	Net Wt. Lbs. M Ft.
Aluminum Sheath—600 Volts					
14	7	3	.62	.77	300
12	7	3	.62	.77	330
10	7	3	.71	.86	410
8	7	4	.83	1.00	570
6	7	4	.94	1.09	710
4	7	4	1.09	1.24	940
2	7	4	1.18	1.33	1270
1	19	5	1.47	1.62	1620
1/0	19	5	1.60	1.75	2050
2/0	19	5	1.72	1.86	2380
3/0	19	5	1.85	2.00	2870
4/0	19	5	1.95	2.10	3400
250	37	6	2.08	2.25	3960
300	37	6	2.31	2.48	4730
350	37	6	2.44	2.61	5440
400	37	6	2.44	2.61	5890
450	37	6	2.57	2.76	6750
500	37	6	2.70	2.89	7370

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	CLX Metal O.D. In.	O.D. In.	Net Wt. Lbs. M Ft.
Aluminum Sheath—5000 Volts—Non-Shielded					
8	7	10	1.47	1.62	1150
6	7	10	1.47	1.62	1270
4	7	10	1.60	1.75	1650
2	7	10	1.72	1.87	2000
1	19	10	1.95	2.10	2510
1/0	19	10	2.08	2.24	2880
2/0	19	10	2.20	2.36	3350
3/0	19	10	2.31	2.48	3900
4/0	19	10	2.44	2.61	4580
250	37	11	2.57	2.76	5380
300	37	11	2.75	2.93	6260
350	37	11	2.84	3.02	6960
400	37	11	2.96	3.17	7680
450	37	11	3.04	3.25	8490
500	37	11	3.13	3.33	9180

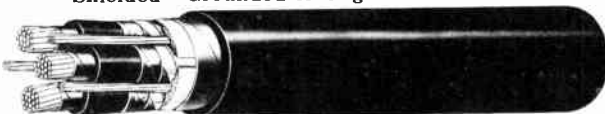
Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

CROSS LINK POLYETHYLENE HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts

Three conductor cross link Polyethylene insulated cable with Polyvinyl Chloride jacket. Ozone resistant, suitable for direct burial, aerial or for use in conduit, open air in wet or dry locations at temperatures not exceeding 90°C.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Shielded—Grounded or Ungrounded Neutral						
		Insul.	Jacket			



8	7	.090	.080	1.03	16	582
6	7	.090	.080	1.11	14	727
4	7	.090	.080	1.22	12	908
2	7	.090	.080	1.35	10	1157
1	19	.090	.080	1.43	8	1428
1/0	19	.090	.080	1.52	8	1652
2/0	19	.090	.080	1.62	6	2061
3/0	19	.090	.110	1.79	5	2465
4/0	19	.090	.110	1.91	5	3056
250	37	.090	.110	2.01	4	3536
350	37	.090	.110	2.24	2	4643
500	37	.090	.110	2.53	1	5333
750	61	.100	.140	3.03	2/0	9284

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
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Non-Shielded—Grounded Neutral



8	7	.110	.080	1.02	16	576
6	7	.110	.080	1.10	14	703
4	7	.110	.080	1.21	12	925
2	7	.110	.080	1.33	10	1212
1	19	.110	.080	1.42	8	1462
1/0	19	.110	.080	1.51	8	1736
2/0	19	.110	.080	1.61	6	2125
3/0	19	.110	.110	1.78	5	2523
4/0	19	.110	.110	1.90	5	3088
250	37	.120	.110	2.05	4	3593
350	37	.120	.110	2.27	2	4669
500	37	.120	.110	2.57	1	5345
750	61	.130	.140	3.06	2/0	9379

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

**CROSS LINK POLYETHYLENE
HIGH VOLTAGE INTERLOCKED
ALUMINUM ARMOR CABLE**

Copper Conductor — 5000 Volts



Three and four conductor cross link Polyethylene insulated cable with aluminum armor. Suitable for power circuits in central and substations, industrial plants and similar locations. For indoor and outdoor installation. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Three Conductor—Grounded or Ungrounded Neutral					
8	7	.110	1.08	16	560
6	7	.110	1.16	14	691
4	7	.110	1.27	12	989
2	7	.110	1.39	10	1279
1	19	.110	1.48	8	1565
1/0	19	.110	1.57	8	1826
2/0	19	.110	1.67	6	2278
3/0	19	.110	1.78	5	2717
4/0	19	.110	1.90	5	3108
250	37	.120	2.05	4	3738
350	37	.120	2.27	2	5124
500	37	.120	2.56	1	6864
750	61	.130	3.00	2/0	9885

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Four Conductor—Grounded or Ungrounded Neutral					
8	7	.110	1.18	14	788
6	7	.110	1.27	12	883
4	7	.110	1.39	10	1201
2	7	.110	1.53	8	1625
1	19	.110	1.63	6	1934
1/0	19	.110	1.73	6	2273
2/0	19	.110	1.84	4	2869
3/0	19	.110	1.96	4	3576
4/0	19	.110	2.10	3	4113
250	37	.120	2.26	2	4626
350	37	.120	2.52	1	6204
500	37	.120	2.84	2/0	8827
750	61	.130	3.33	4/0	12199

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.

Packaging: 1000' reel.

**CROSS LINK POLYETHYLENE
HIGH VOLTAGE AERIAL CABLE**

Copper Conductor — 5000 Volts



Three conductor cross link Polyethylene insulated cable with 30% EHS copper-clad steel messenger for use in various aerial power cable installations in industrial and electric utility systems.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Mess. Size (*)	Net Wt. Lbs. M Ft.
Non-Shielded—Grounded Neutral					
8	7	.110	.88x1.16	3-#8	652
6	7	.110	.96x1.24	3-#8	741
4	7	.110	1.08x1.35	3-#8	818
2	7	.110	1.20x1.48	3-#8	1178
1	19	.110	1.29x1.57	3-#8	1293
1/0	19	.110	1.38x1.66	3-#8	1540
2/0	19	.110	1.48x1.78	5/16"	1900
3/0	19	.110	1.59x1.89	5/16"	2343
4/0	19	.110	1.71x2.10	3/8"	3061
250	37	.120	1.86x2.24	3/8"	3391
350	37	.120	2.08x2.57	1/2"	4531
500	37	.120	2.37x2.94	9/16"	6260
750	61	.130	2.81x3.38	9/16"	9087

*Heavy loading span, 150'. Max. sag at 60°F, 2.5'.

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

**BUTYL RUBBER INSULATED
HIGH VOLTAGE
INTERLOCKED ARMOR CABLE**

Copper Conductor — 5000 Volts



Three conductor Butyl rubber insulated cable with galvanized steel or aluminum armor. For indoor and outdoor installations. Suitable for power circuits in central and substations, industrial plants and similar locations. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.	
					Galv. Armor	Alum. Armor
8	7	10	1.37	16	827	655
6	7	10	1.42	14	974	781
4	7	10	1.52	12	1186	976
2	7	10	1.65	10	1588	1291
1	19	10	1.74	8	1798	1486
1/0	19	10	1.82	8	2054	1725
2/0	19	10	1.92	6	2361	2011
3/0	19	10	2.03	5	3071	2701
4/0	19	10	2.16	5	3193	2795
250	37	11	2.33	4	3698	3269
350	37	11	2.55	2	4724	4249
500	37	11	2.83	1	6194	5662
750	61	11	3.23	2/0	8576	7964

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.

Packaging: 1000' reel.

**BUTYL RUBBER INSULATED
HIGH VOLTAGE AERIAL CABLE**

Copper Conductor — 5000 Volts



Three conductor Butyl rubber insulated cable with Neoprene jacket and 30% EHS copper-clad steel messenger for use in various aerial installations—power circuits, control circuits or communication circuits. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Mess. Size (*)	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Jacket In.			
Grounded						
6	7	10	.045	1.36x1.74	5/16"	950
4	7	10	.045	1.46x1.84	5/16"	1298
2	7	10	.045	1.59x1.89	5/16"	1560
1	19	10	.045	1.67x1.98	5/16"	1742
1/0	19	10	.065	1.85x2.16	5/16"	1989
2/0	19	10	.065	1.95x2.33	3/8"	2381
3/0	19	10	.065	2.06x2.44	3/8"	2598
4/0	19	10	.065	2.19x2.65	1/2"	3397
250	37	11	.065	2.35x2.84	1/2"	4344
350	37	11	.065	2.57x3.15	9/16"	5271
500	37	11	.065	2.86x3.43	9/16"	6645

*Heavy loading span, 150'. Max. sag at 60°F, 2.5'.

Packaging: 1000' reel.

Price on Application

HIGH VOLTAGE MINE POWER FEEDER CABLE

Copper Conductor — 5000 Volts



Three conductor Butyl rubber insulated cable with Neoprene jacket. Suitable for almost any three conductor circuit. Especially suited for use in mine bore-hole applications and for direct burial along the right-of-way. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Thickness		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
		Insul. 64th In.	Jacket In.			
Grounded or Ungrounded						
6	7	.10	.080	1.39	10	1367
6	19	.10	.080	1.39	10	1367
4	7	.10	.080	1.49	9	1808
4	19	.10	.080	1.50	9	1808
2	7	.10	.080	1.62	7	2165
2	19	.10	.080	1.63	7	2165
1	19	.110	.110	1.77	6	2446
1	37	.110	.110	1.77	6	2446
1/0	19	.110	.110	1.86	5	2736
1/0	37	.110	.110	1.86	5	2736
2/0	19	.110	.110	1.96	4	3168
2/0	37	.110	.110	1.96	4	3168
3/0	19	.110	.110	2.06	3	4179
3/0	37	.110	.110	2.07	3	4179
4/0	19	.110	.110	2.19	2	4733
4/0	37	.110	.110	2.19	2	4733
250	37	.110	.110	2.36	1	5648
350	37	.110	.110	2.58	1/0	6955
500	37	.140	.140	2.92	3/0	9306

Packaging: 1000' reel.

CROSS LINK POLYETHYLENE HIGH VOLTAGE POWER CABLE

Copper Conductor — 15000 Volts



Three conductor cross link Polyethylene insulated cable with Polyvinyl Chloride jacket. Ozone resistant, suitable for direct burial, aerial or for use in conduit, open air in wet or dry locations at temperatures not exceeding 90°C.

Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
		Insul.	Jacket			
Grounded Neutral						
2	7	.175	.110	1.77	10	1824
1	19	.175	.110	1.86	8	2229
1/0	19	.175	.110	1.95	8	2478
2/0	19	.175	.110	2.05	6	2747
3/0	19	.175	.110	2.16	5	3272
4/0	19	.175	.110	2.28	5	3871
250	37	.175	.110	2.38	4	4433
350	37	1.75	.110	2.61	2	5648
500	37	.175	.140	2.95	1	7273
Ungrounded Neutral						
1	19	.215	.110	2.03	8	2394
1/0	19	.215	.110	2.12	8	2840
2/0	19	.215	.110	2.22	6	3178
3/0	19	.215	.110	2.33	5	3615
4/0	19	.215	.110	2.45	5	4240
250	37	.215	.110	2.55	4	4849
350	37	.215	.140	2.84	2	5984
500	37	.215	.140	3.12	1	7780

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

TYPE VCL VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 5000 Volts



Three conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aerially, or as open wiring indoors. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Sheath		
Three Conductor (Belted)					
8	7	.6	.5	1.01	1546
6	7	.6	.5	1.09	1798
4	7	.6	.5	1.20	2105
2	7	.6	.6	1.36	2900
1	19	.6	.6	1.45	3223
1/0	19	.6	.6	1.53	3623
2/0	19	.6	.6	1.64	4096
3/0	19	.6	.7	1.78	5066
4/0	19	.6	.7	1.91	5755
250	37	.7	.7	2.06	6505
300	37	.7	.7	2.18	7252
350	37	.7	.8	2.32	8567
400	37	.7	.8	2.43	9275
500	37	.7	.8	2.62	10748

Packaging: 1000' reel.

CROSS LINK POLYETHYLENE HIGH VOLTAGE AERIAL CABLE

Copper Conductor — 15000 Volts



Three conductor cross link Polyethylene insulation cable with Polyvinyl Chloride jacket and 30% EHS copper-clad steel messenger for use in various aerial power cable installations in industrial and electric utility systems. Maximum operating temperature 90°C.

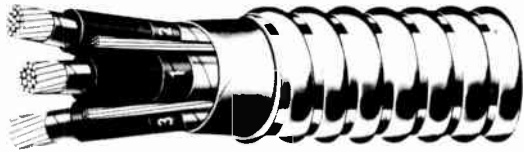
Size AWG or MCM	No. Strands	Thickness Inches		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket		
Shielded—Grounded Neutral					
2	7	.175	.080	1.93x2.32	2167
1	19	.175	.080	2.01x2.40	2536
1/0	19	.175	.080	2.10x2.48	2790
2/0	19	.175	.080	2.20x2.69	3123
3/0	19	.175	.080	2.31x2.80	3839
4/0	19	.175	.080	2.43x2.92	4092
250	37	.175	.080	2.53x3.02	4513
350	37	.175	.080	2.76x3.33	5559
500	37	.175	.080	3.04x3.62	7005
Shielded—Ungrounded Neutral					
1	19	.215	.080	2.18x2.67	2940
1/0	19	.215	.080	2.27x2.76	3313
2/0	19	.215	.080	2.37x2.86	3561
3/0	19	.215	.080	2.48x3.05	4150
4/0	19	.215	.080	2.60x3.18	4597
250	37	.215	.080	2.70x3.28	5328
350	37	.215	.080	2.93x3.50	6283
500	37	.215	.080	3.22x3.79	7605

Packaging: 1000' reel.

Price on Application

**CROSS LINK POLYETHYLENE
HIGH VOLTAGE
INTERLOCKED ARMOR CABLE**

Copper Conductor — 15000 Volts



Three conductor cross link Polyethylene insulated cable with aluminum armor. Suitable for power circuits in central and substations, industrial plants and in similar locations. For indoor and outdoor installation. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
Shielded—Grounded Neutral					
2	7	.175	1.77	10	1853
1	19	.175	1.83	8	2180
1/0	19	.175	1.96	8	2488
2/0	19	.175	2.05	6	2971
3/0	19	.175	2.16	5	3363
4/0	19	.175	2.28	5	3799
250	37	.175	2.38	4	4226
350	37	.175	2.61	2	5071
500	37	.175	2.89	1	6326
Shielded—Ungrounded Neutral					
1	19	.215	2.03	8	2702
1/0	19	.215	2.12	8	3125
2/0	19	.215	2.22	6	3584
3/0	19	.215	2.33	5	4153
4/0	19	.215	2.45	5	4696
250	37	.215	2.55	4	5178
350	37	.215	2.78	2	6199
500	37	.215	3.06	1	7735

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

**BUTYL RUBBER INSULATED
HIGH VOLTAGE
INTERLOCKED ARMOR CABLE**

Copper Conductor — 15000 Volts



Three conductor Butyl rubber insulated cable with galvanized steel or aluminum armor. For indoor and outdoor installations. Suitable for power circuits in central and substations, industrial plants and similar locations. Maximum operating temperature 85°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.	
					Galv. Armor	Alum. Armor
Grounded Neutral						
2	19	19	2.22	10	2701	2249
1	19	19	2.34	8	2942	2475
1/0	19	19	2.42	8	3234	2749
2/0	19	19	2.52	6	3602	3098
3/0	19	19	2.63	5	3996	3471
4/0	19	19	2.76	5	4509	3959
250	37	19	2.86	4	4984	4412
350	37	19	3.09	2	6049	5434
500	37	19	3.37	1	7623	6954
Ungrounded Neutral						
1	19	27	2.87	8	4007	3428
1/0	19	27	2.96	8	4321	3726
2/0	19	27	3.06	6	4705	4089
3/0	19	27	3.17	5	5155	4516
4/0	19	27	3.30	5	5712	5053
250	37	27	3.40	4	6184	5506
350	37	27	3.62	2	7450	6727

Note: Can be jacketed with Polyethylene or Polyvinyl Chloride in colors.
Packaging: 1000' reel.

TYPE VCL VARNISHED CAMBRIC HIGH VOLTAGE POWER CABLE

Copper Conductor — 15000 Volts

Three conductor, varnished cambric insulated cable with an overall lead sheath. Can be installed in conduits or ducts, aerially, or as open wiring indoors. Maximum operating temperature 85°C.



Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Sheath		
Non-Belted, Shielded—Grounded Neutral					
6	7	16	7	1.74	3925
4	7	16	7	1.84	4332
2	7	16	7	1.97	4889
1	19	16	7	2.06	5289
1/0	19	16	7	2.15	5753
2/0	19	16	8	2.28	6840
3/0	19	16	8	2.39	7490
4/0	19	16	8	2.51	8240
250	37	16	8	2.62	8868
300	37	16	8	2.73	9695
350	37	16	8	2.84	10475
400	37	16	8	2.95	11265
500	37	16	8	3.13	12590
750	61	16	9	3.56	16990

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Sheath		
Non-Belted, Shielded—Ungrounded Neutral					
6	7	21	7	2.08	4925
4	7	21	7	2.18	5362
2	7	21	8	2.34	6559
1	19	21	8	2.43	6969
1/0	19	21	8	2.52	7473
2/0	19	21	8	2.62	8050
3/0	19	21	8	2.73	8720
4/0	19	21	8	2.85	9430
250	37	21	8	2.95	10128
300	37	21	8	3.07	10985
350	37	21	8	3.18	11795
400	37	21	9	3.31	12445
500	37	21	9	3.50	14850
750	61	21	9	4.00	18650

Packaging: 1000' reel.

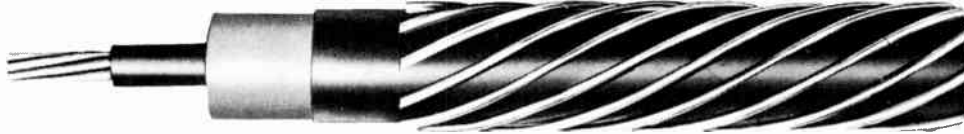
These data are approximate and subject to normal manufacturing tolerances.

Price on Application

UNDERGROUND RESIDENTIAL DISTRIBUTION (URD)



Polyethylene—URD



Cross-Linked Polyethylene—URD

The combination of improved reliability, greater safety, and better appearance has made underground power distribution an increasingly important factor in the planning of residential housing developments. Reduced component costs and improved installation efficiency have made it feasible for more and more residential developments to install electric utility systems below the surface. Underground installations offer the added advantages of fewer service interruptions, greater personal safety, and lower maintenance costs.

The majority of residential underground primary systems are single-phase circuits, although three-phase systems are operated by some utilities due to heavy load conditions. In a URD system, the primary cable feeding the step-down distribution transformer is a vital link. As such, the cable design chosen must provide the best possible reliability consistent with an economical system.

The requirements for a primary URD cable vary somewhat across the country, but basically consist of the following:

- (1) A complete single-phase cable, providing the phase conductor as well as the neutral.
- (2) A moisture-resistant cable suitable for direct burial or installation in an underground duct.
- (3) A cable construction that provides "built-in" protection against accidental "dig-ins."
- (4) A reliable, time-proven insulation that will give trouble-free service for many, many years.
- (5) Lowest possible cost consistent with all of the above requirements.

Obviously there are many different cable designs that can meet the first four of the above requirements. As a matter of fact, the most recent survey of residential underground practices of the nation's utilities (IEEE publication S-144) shows that 18 basic types of cable have been used to solve ostensibly the same problem. While some of these special designs may be necessary to solve the peculiarities of a specific job, it is not necessary to consider 18 possible solutions for the basic problem of underground distribution.

An analysis of the aforementioned requirements, backed up by the experience of many utilities around the country, shows that **one basic construction** provides the best **general solution** for primary URD cable. This construction consists of:

- (1) Copper or aluminum conductor.
- (2) Strand shield to minimize stress concentration.
- (3) Synthetic insulation to provide moisture resistance and long life.
- (4) Extruded semiconducting layer to act as part of the shield and mechanically protect the insulation.
- (5) Concentric wires overall to shield the cable electrostatically, serve as the neutral conductor, and provide protection against "dig-ins."

Most installations can be served with either of the following synthetic insulations, however, if a special problem requires other alternates, all modern insulations including paper, butyl, etc., are available:

Polyethylene (URD)—The most economical synthetic high-voltage insulation presently available is high-molecular-weight polyethylene. Its excellent electrical properties and moisture resistance make it particularly suited for URD cables. Temperature limits are 75°C normal service and 90°C emergency service, which are adequate for most cases.

Cross-Linked Polyethylene (URD)—If higher temperature limits, both normal and emergency, are required, cross-linked polyethylene is the best bet. Temperature rating is 90°C for normal service and 130°C emergency service.

Direct burial is the least expensive of the installation practices now being used, however, to allow for easy replacement of cable or being able to pull-in new conductors when necessary, consideration should be given to "cable-in-conduit" installations consisting of primary URD cables and 600-volt secondary cables preassembled in a conduit, or the use of fiber or plastic duct suitable for burial.

UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) CABLES

Copper and Aluminum Conductor — 5000 & 15,000 Volts



Polyethylene—URD



Cross-Linked Polyethylene—URD

Polyethylene (URD)—Copper or aluminum conductor with extruded semiconducting polyethylene strand shield and high-molecular-weight polyethylene insulation; extruded semiconducting polyethylene jacket and neutral of concentric tinned copper wires overall. Maximum operating temperature 75°C.

Cross-Linked Polyethylene (URD)—Tinned copper or aluminum conductor with extruded semiconducting strand shield and insulation of cross-linked polyethylene; extruded semiconducting polyethylene jacket and neutral of concentric tinned copper wires overall. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. In.	Insul. Max. Dia. In.	Jkt. Max. Dia. In.	No. & Size AWG Conc. Wires	Nom. O.A. Dia. In.	Net Wt. Lbs. M Ft.
Copper Conductor—5000 Volts							
4	7	.090	.49	.56	10-#14	.68	340
2	7	.090	.55	.63	16-#14	.75	520
1	19	.090	.59	.67	20-#14	.79	630
1/0	19	.090	.63	.71	16-#12	.88	780
2/0	19	.090	.69	.77	20-#12	.91	960
3/0	19	.090	.74	.82	16-#10	1.01	1180
4/0	19	.090	.80	.88	20-#10	1.07	1460

Size AWG or MCM	No. Strands	Insul. Thick. In.	Insul. Max. Dia. In.	Jkt. Max. Dia. In.	No. & Size AWG Conc. Wires	Nom. O.A. Dia. In.	Net Wt. Lbs. M Ft.
Aluminum Conductor—5000 Volts							
2	1	.090	.52	.59	10-#14	.71	280
1	19	.090	.57	.64	13-#14	.76	340
1/0	19	.090	.60	.68	16-#14	.79	410
2/0	19	.090	.65	.72	20-#14	.84	500
3/0	19	.090	.70	.77	16-#12	.92	610
4/0	19	.090	.75	.82	20-#12	.97	750
250	19	.090	.80	.87	16-#10	1.06	910
300	19	.090	.85	.93	20-#10	1.12	1100

Size AWG or MCM	No. Strands	Insul. Thick. In.	Insul. Max. Dia. In.	Jkt. Max. Dia. In.	No. & Size AWG Conc. Wires	Nom. O.A. Dia. In.	Net Wt. Lbs. M Ft.
Copper Conductor—15,000 Volts							
4	7	.175	.67	.74	10-#14	.86	420
2	7	.175	.73	.81	16-#14	.92	590
1	19	.175	.78	.85	20-#14	.96	710
1/0	19	.175	.81	.89	16-#12	1.04	860
2/0	19	.175	.87	.94	20-#12	1.09	1050
3/0	19	.175	.92	.99	16-#10	1.18	1280
4/0	19	.175	.98	1.06	20-#10	1.25	1580

Size AWG or MCM	No. Strands	Insul. Thick. In.	Insul. Max. Dia. In.	Jkt. Max. Dia. In.	No. & Size AWG Conc. Wires	Nom. O.A. Dia. In.	Net Wt. Lbs. M Ft.
Aluminum Conductor—15,000 Volts							
2	1	.175	.70	.77	10-#14	.89	360
1	19	.175	.74	.82	13-#14	.93	420
1/0	19	.175	.78	.85	16-#14	.97	500
2/0	19	.175	.82	.90	20-#14	1.01	590
3/0	19	.175	.88	.95	16-#12	1.10	710
4/0	19	.175	.93	1.00	20-#12	1.15	850
250	19	.175	.97	1.05	16-#10	1.24	1010
300	19	.175	1.03	1.10	20-#10	1.29	1210

Note: Strand shield and jacket are .030" thick.
Packaging: As required.

These data are approximate and subject to normal manufacturing tolerances.

TYPE USE UNDERGROUND SERVICE CABLE

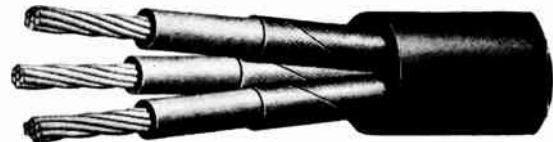
Copper and Aluminum Conductor — 600 Volts



Single Conductor



Two Conductor



Three Conductor

One, two and three conductor Type RHW insulated wire with Neoprene jacket suitable for operation in wet or dry locations at a maximum temperature of 75°C. Underground service entrance cable for direct earth burial, conduit, duct or aerial applications.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	
					Copper	Aluminum
Single Conductor						
12	1	3	.030	.24	44	..
10	1	3	.030	.26	58	..
8	1	3	.030	.32	88	..
12	7	3	.030	.25	46	..
10	7	3	.030	.28	62	..
8	7	4	.030	.34	93	..
6	7	4	.030	.38	130	75
4	7	4	.030	.43	187	99
2	7	4	.030	.49	275	134
1	19	5	.045	.59	370	190
1/0	19	5	.045	.63	449	219
2/0	19	5	.045	.68	547	257
3/0	19	5	.045	.72	662	302
4/0	19	5	.045	.78	812	360
250	37	6	.065	.89	990	458
300	37	6	.065	.95	1160	524
350	37	6	.065	1.00	1330	585
400	37	6	.065	1.04	1502	649
500	37	6	.065	1.13	1835	770
600	61	7	.065	1.24	2201	911
750	61	7	.065	1.34	2703	1094
1000	61	7	.065	1.49	3522	1363
Two Conductor						
12	1	3	.045	.31x.57	120	90
10	1	3	.045	.36x.59	165	117
8	1	4	.060	.42x.71	245	167
6	7	4	.060	.47x.81	350	223
4	7	4	.080	.55x.94	550	320
Three Conductor						
12	1	3	.045	.57	205	152
10	1	3	.060	.64	260	188
8	1	4	.060	.76	380	310
6	7	4	.060	.86	555	450
4	7	4	.060	.99	760	600
2	7	4	.080	1.16	1085	770
1	19	5	.080	1.30	1325	1010
1/0	19	5	.080	1.40	1580	1160
2/0	19	5	.080	1.50	1895	1340
3/0	19	5	.080	1.60	2270	1570
4/0	19	5	.080	1.80	2975	1885

Packaging: Sizes 12 through 8 AWG, 1-conductor, 2500' reel; balance of sizes in 1-conductor and all sizes in 2 and 3-conductor, 1000' reel.

Price on Application

TYPE RHH-RHW CROSS LINK SERVICE CABLE

Copper and Aluminum Conductor — 600 Volts



Single conductor cross link Polyethylene insulated wire suitable for operation at 90°C in dry locations and 75°C in wet or dry locations. May be installed in conduit, duct or other recognized raceway.

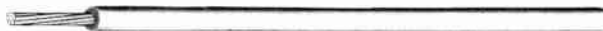
Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	1	3	.16	21	..
12	1	3	.18	30	18
10	1	3	.20	43	23
8	1	4	.26	67	39
14	7	3	.17	22	..
12	7	3	.19	31	20
10	7	3	.21	45	26
8	7	4	.27	72	42
6	7	4	.31	107	52
4	7	4	.36	160	71
2	7	4	.42	243	105
1	19	5	.49	312	135
1/0	19	5	.53	384	160
2/0	19	5	.58	476	195
3/0	19	5	.63	591	240
4/0	19	5	.69	733	290
250	37	6	.77	873	350
300	37	6	.82	1040	405
350	37	6	.87	1190	460
400	37	6	.92	1360	520
500	37	6	1.01	1681	625
600	61	7	1.12	2027	755
750	61	7	1.23	2511	920
1000	61	7	1.38	3316	1190

Check your Graybar office for colors available.

Packaging: Sizes 14 through 8 AWG, 500' carton; 6 through 2 AWG, 500' coil; 1 AWG and larger, 1000' reel.

TYPE USE CROSS LINK SERVICE CABLE

Copper and Aluminum Conductor — 600 Volts



Single conductor cross link Polyethylene Type RHH-RHW insulated wire approved by UL for direct burial, conduit or raceway and aerial installations for operation at 90°C in dry locations and 75°C in wet or dry locations.

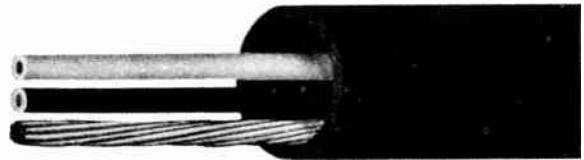
Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
6	7	5	.35	114	63
4	7	5	.40	170	83
3	7	5	.43	204	100
2	7	5	.46	255	117
1	19	6	.53	337	162
1/0	19	6	.57	400	183
2/0	19	6	.62	479	212
3/0	19	6	.67	596	249
4/0	19	6	.73	744	301
250	37	7	.80	887	366
300	37	7	.86	1059	420
350	37	7	.91	1212	478
400	37	7	.96	1375	536
500	37	7	1.04	1702	656
600	61	8	1.15	2009	760
750	61	8	1.26	2540	982
1000	61	8	1.43	3362	1275

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

PREASSEMBLED "CABLE-IN-CONDUIT"

Copper and Aluminum Conductor — 600 Volts



Two and three conductor cables preassembled within a flexible Polyethylene duct making a single unit. Overcomes wasteful installation of short lengths of duct, joined by many couplings. Instead, single long lengths of coilable plastic duct, already containing the required number of parallel conductors, are shipped on reels.

Available in Types THW and RHW-USE with all conductors insulated or with two insulated and one bare neutral. Rated 75° in wet or dry locations.

Size AWG	No. Strands	Thickness		Duct Size, In.		
		Insul. 64th In.	Jacket In.	2 Cond.	3 Cond.	2 Insul. Cond. & 1 Bare Neutral
Type THW Insulation						
12	7	3	...	3/4	3/4	3/4
10	7	3	...	3/4	3/4	3/4
8	7	4	...	3/4	1	3/4
6	7	4	...	1	1	1
4	7	4	...	1 1/4	1 1/4	1 1/4
2	7	4	...	1 1/4	1 1/4	1 1/4
1	19	5	...	1 1/2	1 1/2	1 1/2
1/0	19	5	...	1 1/2	2	1 1/2
2/0	19	5	...	1 1/2	2	2
3/0	19	5	...	2	2	2
4/0	19	5	...	2	2	2
Type RHW-USE Insulation—Neoprene Jacket						
12	1	3	.030	3/4	3/4	3/4
10	1	3	.030	1	1	1
8	1	4	.030	1	1 1/4	1
6	7	4	.030	1 1/4	1 1/4	1 1/4
4	7	4	.030	1 1/4	1 1/4	1 1/4
2	7	4	.030	1 1/2	1 1/2	1 1/2
1	19	5	.045	1 1/2	2	2
1/0	19	5	.045	2	2	2
2/0	19	5	.045	2	2	2
3/0	19	5	.045	...	...	2

Packaging: As required.

PREASSEMBLED TYPE URD POWER CABLE

Copper and Aluminum Conductor — 5000 & 15,000 Volts

Type URD power cable preassembled within a flexible polyethylene duct to make a single unit. Available with HMW (high-molecular-weight) polyethylene, VSP (voltage-stabilized polyethylene) or CLP (cross-linked polyethylene) insulation.

Size AWG	No. Strands	Insulation Thick., In.		No. & Size AWG Conc. Wires	Duct Size, In.	
		5000V	15000V		5000V	15000V
4	7	.090	.175	10-#14	1 1/4	1 1/2
2	7	.090	.175	16-#14	1 1/4	1 1/2
1	19	.090	.175	20-#14	1 1/2	2
1/0	19	.090	.175	16-#12	1 1/2	2
2/0	19	.090	.175	20-#12	2	2
3/0	19	.090	.175	16-#10	2	2
4/0	19	.090	.175	20-#10	2	2

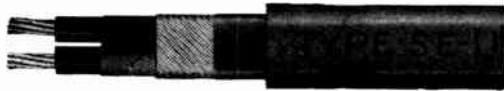
Packaging: As required.

Note: Also available for 600-volt secondary systems consisting of two insulated cables and a single insulated or bare neutral conductor.

Price on Application

TYPE SE-U SERVICE ENTRANCE CABLE

Copper and Aluminum Conductor — 300 Volts



Two and three conductor Type RH-RW insulated wire with concentric neutral and overall braid painted gray. One cable for the entire service between line or entrance cap to the meter, switch or range receptacle. Approved by UL for use without conduit. Maximum operating temperature 75°C.

Size AWG	No. Strands	Neutral Size AWG	O.D. In.	Ampacity		Net Wt.	
				Copper	Alum.	Copper Lbs. M Ft.	Alum.
Two Conductors							
12	1	12	.29	20	..	65	..
10	1	10	.32	30	..	90	..
8	7	8	.38	45	40	140	52
6	7	6	.45	65	50	210	91
4	7	4	.49	85	65	380	125
2	7	2	.58	115	100	560	172

Size AWG	No. Strands	Neutral Size AWG	O.D. In.	Ampacity		Net Wt.	
				Copper	Alum.	Copper Lbs. M Ft.	Alum.
Three Conductors							
12	1	12	.30x .47	20	..	105	..
10	1	10	.31x .51	30	25	145	70
8	7	8	.38x .66	45	40	225	113
6	7	8	.43x .74	65	..	305	..
6	7	6	.45x .78	65	50	330	152
4	7	6	.50x .86	85	..	440	..
4	7	4	.50x .86	85	65	485	210
3	7	5	.54x .93	100	..	540	..
3	7	3	.54x .93	100	75	605	275
2	7	4	.56x .98	115	..	660	..
2	7	2	.57x .99	115	100	745	300
1	19	1	.64x1.12	130	110	935	386
1/0	19	1/0	.68x1.20	150	125	1155	460
2/0	19	1	.76x1.32	175	..	1430	..
2/0	19	2/0	.78x1.34	175	150	1590	556
3/0	19	1/0	.81x1.42	200	..	1750	..
3/0	19	3/0	.85x1.46	200	170	1955	674
4/0	19	2/0	.90x1.57	230	..	2150	..
4/0	19	4/0	.90x1.57	230	200	2400	821

Packaging: Sizes 12 through 8 AWG, 250' coil; 6 AWG, 200' coil; 4 through 3 AWG, 150' coil; 2 AWG, 100' coil; 1 AWG and larger, 1,000' reel.

TYPE N-SD SERVICE DROP AND SECONDARY CABLE

Aluminum Conductor—300 Volts

Multi-conductor covered with a wall of insulating Cross-Linked Polyethylene and spiraled around the bare messenger conductor. Messenger serves both as the neutral and the supporting member, leaving the insulated conductors free of tension. Bare messenger conductor may be aluminum or ACSR construction.

Code Word	Insulated Conductor			Bare Messenger			Net Wt. Lbs. M Ft.
	Size AWG	No. Strands	Insul. Thick. 64th In.	Size AWG	No. Strands		
Two Conductor—All-Aluminum Messenger—Neutral							
Pekingese-XL	6	1	3	6	7		64
Collie-XL	6	7	3	6	7		68
Dachshund-XL	4	1	3	4	7		96
Spaniel-XL	4	7	3	4	7		103
Doberman-XL	2	7	3	2	7		156
Malemute-XL	1/0	19	4	1/0	7		246
Two Conductor—ACSR Messenger—Neutral							
Setter-XL	6	1	3	6	6/1		75
Shepherd-XL	6	7	3	6	6/1		80
Eskimo-XL	4	1	3	4	6/1		116
Terrier-XL	4	7	3	4	6/1		121
Chow-XL	2	7	3	2	6/1		185
Bull-XL	1/0	19	4	1/0	6/1		292
Three Conductor—All-Aluminum Messenger—Neutral							
Haiotis-XL	6	1	3	6	7		103
Patella-XL	6	7	3	6	7		112
Fusus-XL	4	1	3	4	7		154
Oyster-XL	4	7	3	4	7		166
Clam-XL	2	7	3	2	7		249
Murex-XL	1/0	7	4	1/0	7		400
Purpura-XL	1/0	19	4	1/0	7		393
Nassa-XL	2/0	7	4	2/0	7		480
Trophon-XL	2/0	19	4	2/0	7		483
Portunus-XL	4/0	19	4	4/0	19		734
Three Conductor—ACSR Messenger—Neutral							
Paludina-XL	6	1	3	6	6/1		115
Voluta-XL	6	7	3	6	6/1		124
Whelk-XL	4	1	3	4	6/1		172
Periwinkle-XL	4	7	3	4	6/1		184
Conch-XL	2	7	3	2	6/1		278
Neritina-XL	1/0	7	4	1/0	6/1		446
Cenia-XL	1/0	19	4	1/0	6/1		439
Runcina-XL	2/0	7	4	2/0	6/1		536
Triton-XL	2/0	19	4	2/0	6/1		541
Zuzara-XL	4/0	19	4	4/0	6/1		827



Code Word	Insulated Conductor			Bare Messenger			Net Wt. Lbs. M Ft.
	Size AWG	No. Strands	Insul. Thick. 64th In.	Size AWG	No. Strands		
Three Conductor—ACSR Reduced Size Messenger—Neutral							
Scallop-XL	4	1	3	6	6/1		150
Strombus-XL	4	7	3	6	6/1		163
Cockle-XL	2	7	3	4	6/1		244
Janthina-XL	1/0	7	4	2	6/1		392
Ranella-XL	1/0	19	4	2	6/1		397
Cavolina-XL	2/0	7	4	1	6/1		495
Clio-XL	2/0	19	4	1	6/1		482
Cerapus-XL	4/0	19	4	2/0	6/1		719
Four Conductor—All-Aluminum Messenger—Neutral							
Quarter-XL	6	1	3	6	7		136
Clydesdale-XL	4	1	3	4	7		202
Pinto-XL	4	7	3	4	7		219
Mustang-XL	2	7	3	2	7		329
Shire-XL	1	19	4	1	7		425
Criollo-XL	1/0	19	4	1/0	7		521
Percheron-XL	2/0	19	4	2/0	7		641
Hanoverian-XL	3/0	19	4	3/0	19		791
Oldenburg-XL	4/0	19	4	4/0	19		977
Four Conductor—ACSR Messenger—Neutral							
Morochuca-XL	6	1	3	6	6/1		148
Chola-XL	6	7	3	6	6/1		159
Morgan-XL	4	1	3	4	6/1		221
Hackney-XL	4	7	3	4	6/1		238
Palomino-XL	2	7	3	2	6/1		359
Albino-XL	1	19	4	1	6/1		462
Costena-XL	1/0	19	4	1/0	6/1		568
Grullo-XL	2/0	19	4	2/0	6/1		700
Suffolk-XL	3/0	19	4	3/0	6/1		864
Appaloosa-XL	4/0	19	4	4/0	6/1		1070

Packaging: As required.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

TYPE RHH-RHW CROSS LINK BUILDING WIRE

Copper and Aluminum Conductor — 600 Volts



Single conductor cross link Polyethylene insulated wire suitable for operation at 90°C in dry locations and 75°C in wet or dry locations. May be installed in conduit, duct or other recognized raceway.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	1	3	.16	21	..
12	1	3	.18	30	18
10	1	3	.20	43	23
8	1	4	.26	67	39
14	7	3	.17	22	..
12	7	3	.19	31	20
10	7	3	.21	45	26
8	7	4	.27	72	42
6	7	4	.31	107	52
4	7	4	.36	160	71
2	7	4	.42	243	105
1	19	5	.49	312	135
1/0	19	5	.53	384	160
2/0	19	5	.58	476	195
3/0	19	5	.63	591	240
4/0	19	5	.69	733	290
250	37	6	.77	873	350
300	37	6	.82	1040	405
350	37	6	.87	1190	460
400	37	6	.92	1360	520
500	37	6	1.01	1681	625
600	61	7	1.12	2027	755
750	61	7	1.23	2511	920
1000	61	7	1.38	3316	1190

Check your Graybar office for colors available.

Packaging: Sizes 14 through 8 AWG, 500' carton; 6 through 2 AWG, 500' coil; 1 AWG and larger, 1000' reel.

TYPE USE CROSS LINK BUILDING WIRE

Copper and Aluminum Conductor — 600 Volts



Single conductor cross link Polyethylene Type RHH-RHW insulated wire approved by UL for direct burial, conduit or raceway and aerial installations for operation at 90°C in dry locations and 75°C in wet or dry locations.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
6	7	5	.35	114	63
4	7	5	.40	170	83
3	7	5	.43	204	100
2	7	5	.46	255	117
1	19	6	.53	337	162
1/0	19	6	.57	400	183
2/0	19	6	.62	479	212
3/0	19	6	.67	596	249
4/0	19	6	.73	744	301
250	37	7	.80	887	366
300	37	7	.86	1059	420
350	37	7	.91	1212	478
400	37	7	.96	1375	536
500	37	7	1.04	1702	656
600	61	8	1.15	2009	760
750	61	8	1.26	2540	982
1000	61	8	1.43	3362	1275

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

TYPE USE UNDERGROUND SERVICE CABLE

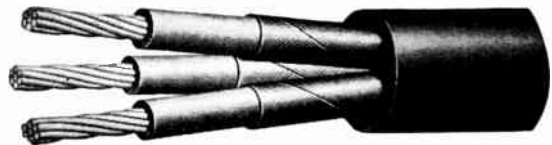
Copper and Aluminum Conductor — 600 Volts



Single Conductor



Two Conductor



Three Conductor

One, two and three conductor Type RHW insulated wire with Neoprene jacket suitable for operation in wet or dry locations at a maximum temperature of 75°C. Underground service entrance cable for direct earth burial, conduit, duct or aerial applications.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	
					Copper	Aluminum
Single Conductor						
12	1	3	.030	.24	44	..
10	1	3	.030	.26	58	..
8	1	3	.030	.32	88	..
12	7	3	.030	.25	46	..
10	7	3	.030	.28	62	..
8	7	4	.030	.34	93	..
6	7	4	.030	.38	130	75
4	7	4	.030	.43	187	99
2	7	4	.030	.49	275	134
1	19	5	.045	.59	370	190
1/0	19	5	.045	.63	449	219
2/0	19	5	.045	.68	547	257
3/0	19	5	.045	.72	662	302
4/0	19	5	.045	.78	812	360
250	37	6	.065	.89	990	458
300	37	6	.065	.95	1160	524
350	37	6	.065	1.00	1330	585
400	37	6	.065	1.04	1502	649
500	37	6	.065	1.13	1835	770
600	61	7	.065	1.24	2201	911
750	61	7	.065	1.34	2703	1094
1000	61	7	.065	1.49	3522	1363

Two Conductor

12	1	3	.045	.31x.57	120	90
10	1	3	.045	.36x.59	165	117
8	1	4	.060	.42x.71	245	167
6	7	4	.060	.47x.81	350	223
4	7	4	.080	.55x.94	550	320

Three Conductor

12	1	3	.045	.57	205	152
10	1	3	.060	.64	260	188
8	1	4	.060	.76	380	310
6	7	4	.060	.86	555	450
4	7	4	.060	.99	760	600
2	7	4	.080	1.16	1085	770
1	19	5	.080	1.30	1325	1010
1/0	19	5	.080	1.40	1580	1160
2/0	19	5	.080	1.50	1895	1340
3/0	19	5	.080	1.60	2270	1570
4/0	19	5	.080	1.80	2975	1885

Packaging: Sizes 12 through 8 AWG, 1-conductor, 2500' reel; balance of sizes in 1-conductor and all sizes in 2 and 3-conductor, 1000' reel.

Price on Application

TYPE THW BUILDING WIRE

Copper and Aluminum Conductor — 600 Volts



Single conductor Polyvinyl Chloride insulated wire suitable for operation in wet or dry locations at a maximum temperature of 75°C. Highly resistant to the effects of moisture, oil and chemicals. Also listed as 90°C Machine Tool Wire by UL.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	1	3	.16	22	18
12	1	3	.18	31	25
10	1	3	.20	45	38
8	1	4	.26	73	61
14	7	3	.17	24	20
12	7	3	.19	33	27
10	7	3	.21	48	40
8	7	4	.27	77	64
6	7	4	.31	112	92
4	7	4	.36	167	134
3	7	4	.39	205	164
2	7	4	.42	252	201
1	19	5	.49	325	256
1/0	19	5	.53	397	312
2/0	19	5	.58	491	388
3/0	19	5	.63	608	481
4/0	19	5	.69	750	588
250	37	6	.77	895	704
300	37	6	.82	1065	840
350	37	6	.87	1230	972
400	37	6	.92	1395	1098
500	37	6	1.01	1720	1372
600	61	7	1.12	2080	1652
750	61	7	1.23	2570	2052
1000	61	7	1.37	3375	2700

Standard colors available: 14 through 10 AWG—black, white, red, blue, green, orange, brown, yellow, purple; 8 AWG—black, white, red, blue; 6 through 2 AWG—black, white, red; 1 AWG and larger—black.

Packaging: Sizes 14 through 8 AWG, 500' carton and 2500' spool; 6 through 2 AWG, 500' coil; 1 AWG and larger, 1000' reel.

TYPE THWN BUILDING WIRE

Copper Conductor — 600 Volts



Extra small diameter single conductor Polyvinyl Chloride insulated wire with Nylon jacket suitable for operation in wet or dry locations at a maximum temperature of 75°C. Also listed by UL for use as 60°C when exposed to oil, 105°C Appliance Wire and 90°C Machine Tool Wire.

Size AWG	No. Strands	Insul. Thick. In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
14	1	.015	.004	.11	16
12	1	.015	.004	.13	25
10	1	.020	.004	.16	38
18*	16	.015	.004	.09	8
16*	26	.015	.004	.10	12
14	19	.015	.004	.12	17
12	19	.015	.004	.14	25
10	19	.020	.004	.17	40

*Not listed as THWN—only as 90°C Machine Tool Wire, 105° Appliance Wire and 60°C exposed to oil.

Standard colors available: 18 through 10 AWG—black, white, red, green, orange, blue, brown and yellow.

Packaging: 500' coil.

These data are approximate and subject to normal manufacturing tolerances.

TYPE TW BUILDING WIRE

Copper and Aluminum Conductor — 600 Volts

Small diameter, single conductor Polyvinyl Chloride insulated wire suitable for operation in wet or dry locations at a maximum temperature of 60°C. Resists moisture, ozone, oils, solvents, acids and is flame-retardant.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	1	2	.13	18	14
12	1	2	.15	27	21
10	1	2	.17	40	31
8	1	3	.23	66	51
14	7	2	.14	19	14
12	7	2	.16	28	21
10	7	2	.18	42	31
8	7	3	.24	70	53
6	7	4	.31	113	86
4	7	4	.36	168	128
3	7	4	.40	209	162
2	7	4	.42	253	196
1	19	5	.49	325	252
1/0	19	5	.53	399	308
2/0	19	5	.58	493	378
3/0	19	5	.63	610	471
4/0	19	5	.69	755	584
250	37	6	.77	901	704
300	37	6	.82	1070	832
350	37	6	.87	1236	964
400	37	6	.92	1399	1092
500	37	6	1.01	1725	1344
600	61	7	1.12	2083	1624
750	61	7	1.23	2574	2016
1000	61	7	1.38	3381	2640

Standard colors available; 14 through 10 AWG—black, white, red, blue, green, orange, brown, yellow, purple; 8 AWG—black, white, red, blue; 6 through 2 AWG—black, white, red; 1 AWG and larger—black.

Packaging: Sizes 14 through 8 AWG, 500' carton and 2500' spool; 6 through 2 AWG, 500' coil; 1 AWG and larger, 1000' reel.

TYPE THHN BUILDING WIRE

Copper Conductor — 600 Volts



Extra small diameter single conductor Polyvinyl Chloride insulated wire with Nylon jacket suitable for operation in wet or dry locations at a maximum temperature of 90°C. Also listed by UL for use as 60°C when exposed to oil, 105°C Appliance Wire and 90°C Machine Tool Wire.

Size AWG or MCM	No. Strands	Insul. Thick. In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
14	1	.015	.004	.11	16
12	1	.015	.004	.13	25
10	1	.020	.004	.16	38
18*	16	.015	.004	.09	8
16*	26	.015	.004	.10	12
14	19	.015	.004	.12	17
12	19	.015	.004	.14	25
10	19	.020	.004	.17	40
8	19	.030	.005	.22	65
6	19	.030	.005	.26	97
4	19	.040	.006	.33	155
3	19	.040	.006	.36	192
2	19	.040	.006	.39	238
1	37	.050	.007	.45	305
1/0	37	.050	.007	.49	375
2/0	37	.050	.007	.54	470
3/0	37	.050	.007	.59	580
4/0	37	.050	.007	.65	725
250	61	.060	.008	.72	860
350	61	.060	.008	.83	1185
500	61	.060	.008	.95	1665

*Not listed as THHN—only as 90°C Machine Tool Wire, 105°C Appliance Wire and 60°C exposed to oil.

Standard colors available: 8 through 2 AWG—black, white, red; 1 AWG and larger—black.

Packaging: Sizes 8 through 2 AWG, 500' coil; 1 AWG and larger, 1000' reel.

Price on Application

STYLE RR BUILDING WIRE

Copper and Aluminum Conductor — 600 Volts



Single conductor Type RHW insulated wire with Neoprene jacket suitable for operation in wet or dry locations at a maximum temperature of 75°C. Identified as Type RHW for conduit and duct installation; as Type USE for direct burial as well as conduit, duct and aerial installations.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Jacket Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.	
					Copper	Aluminum
Type RHW—For Duct						
14	1	3	.015	.21	29	16
12	1	3	.015	.22	38	22
10	1	3	.015	.24	52	28
14	7	3	.015	.21	30	18
12	7	3	.015	.23	40	24
10	7	3	.015	.26	55	32
Type USE—For Direct Burial						
12	1	3	.030	.24	44	24
10	1	3	.030	.26	58	30
8	1	3	.030	.32	88	46
12	7	3	.030	.25	46	26
10	7	3	.030	.28	62	32
8	7	4	.030	.34	93	48
6	7	4	.030	.38	130	75
4	7	4	.030	.43	187	99
2	7	4	.030	.49	275	134
1	19	5	.045	.59	370	190
1/0	19	5	.045	.63	449	219
2/0	19	5	.045	.68	547	257
3/0	19	5	.045	.72	662	302
4/0	19	5	.045	.78	812	360
250	37	6	.065	.89	990	458
300	37	6	.065	.95	1160	524
350	37	6	.065	1.00	1330	585
400	37	6	.065	1.04	1502	649
500	37	6	.065	1.13	1835	770
600	61	7	.065	1.24	2201	911
750	61	7	.065	1.34	2703	1094
1000	61	7	.065	1.49	3522	1363

Check your Graybar office for colors available.

Packaging: Sizes 14 through 8 AWG, 500' carton and 2500' spool; 6 AWG and larger, 1000' reel.

BARE COPPER WIRE



Solid



Stranded

Made to the specifications of the American Society for Testing Materials which are the recognized American standards.

Size AWG	Solid		7 Strands	
	Dia. In.	Net Wt. Lbs. M Ft.	Dia. In.	Net Wt. Lbs. M Ft.
14	.0641	12.4	.0726	12.68
12	.0808	19.8	.0915	20.16
10	.1019	31.43	.116	32.06
8	.1285	49.98	.146	50.97
6	.1620	79.44	.184	81.05
4	.2043	126.3	.232	128.9
2	.2576	200.9	.292	204.9

Packaging: 25 lb. spool or coil. These data are approximate and subject to normal manufacturing tolerances.

TYPE RHL BUILDING WIRE

Copper Conductor — 600 Volts



Single, two and three conductor rubber insulated wire, fibrous covered and lead sheath overall. Suitable for use in underground installations in conduit and duct. Maximum operating temperature 75°C.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	Lead Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
					Copper	Aluminum
Type RHL—Single Conductor						
14	1	3*	2†	.21	108	
12	1	3*	2†	.23	125	
10	1	3	3	.31	240	
8	1	4	3	.37	318	
6	1	4	4†	.44	478	
14	7	3*	2†	.22	114	
12	7	3*	2†	.24	133	
10	7	3	3	.34	272	
8	7	4	3	.40	345	
6	7	4	4†	.46	517	
4	7	4	4†	.50	607	
2	7	4	4	.56	755	
1	19	5	4	.64	909	
1/0	19	5	4	.68	1028	
2/0	19	5	4	.73	1168	
3/0	19	5	4	.78	1345	
4/0	19	5	4†	.84	1553	
250	37	6	5	.98	2019	
300	37	6	5	1.00	2247	
350	37	6	5	1.06	2481	
400	37	6	5	1.10	2707	
500	37	6	5	1.19	3150	
600	61	7	6	1.33	3981	
700	61	7	6	1.40	4418	
750	61	7	6	1.44	4641	
800	61	7	6	1.47	4848	
900	61	7	6	1.53	5265	
1000	61	7	6	1.59	5696	
Type RHDL—Two Conductor						
14	1	2	2†	.21x.37	175	
12	1	2	2†	.23x.40	206	
10	1	3	3†	.32x.54	393	
8	1	4	3†	.38x.67	526	
6	1	4	4	.44x.76	805	
Type RHML—Three Conductor						
14	1	2	3	.45	363	
12	1	2	3	.49	419	
10	1	3	4	.64	715	
8	1	4	4	.77	950	
6	1	4	5	.87	1455	
14	7	2	3	.47	390	
12	7	2	3	.54	450	
10	7	3	4	.67	760	
8	7	4	4	.81	1015	
6	7	4	5	.92	1520	
4	7	4	5	1.03	1780	
2	7	4	5	1.16	2240	
1	19	5	6	1.33	2980	
1/0	19	5	6	1.42	3340	
2/0	19	5	6	1.52	3830	
3/0	19	5	6	1.63	4370	
4/0	19	5	7	1.79	5430	
250	37	6	7	1.96	6320	
300	37	6	7	2.08	7100	
350	37	6	7	2.19	7830	
400	37	6	8	2.32	9130	
500	37	6	8	2.50	10550	

*UL permits 1/64" lighter insulation.
†IPCEA and ASTM specifications require 1/64" heavier lead sheath.
‡IPCEA and ASTM specifications require 1/64" lighter lead sheath.

Packaging: 14 through 2 AWG, 1,000' reel; 1 AWG and larger, 500' reel.

Price on Application

MACHINE TOOL WIRE
Copper Conductor — 600 Volts



Single conductor Polyvinyl Chloride insulated wire rated 90°C for dry locations and 60°C where exposed to moisture, oil or coolants. MTW-THW is rated 75°C where exposed to moisture.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
Machine Tool and Appliance Wire 90°C				
18*	19	2	.11	10
16*	19	2	.12	14
Machine Tool Wire 90°C and Type TW 60°C				
14†	19	2	.14	20
12†	19	2	.16	28
10†	19	2	.18	42
8†	19	3	.25	71
Machine Tool Wire 90°C and Type THW 75°C				
14	1	3	.16	22
14	7	3	.17	24
14	19	3	.17	24
12	1	3	.18	31
12	7	3	.19	33
12	19	3	.19	33
10	1	3	.20	45
10	7	3	.21	48
10	19	3	.21	48
8	1	4	.26	73
8	7	4	.28	77
8	19	4	.28	77
6	7	4	.31	112
6	19	4	.32	112
4	7	4	.36	167
4	19	4	.37	167
2	7	4	.42	252
2	19	4	.43	252
1	19	5	.50	325
1/0	19	5	.54	397
2/0	19	5	.58	491
3/0	19	5	.63	608
4/0	19	5	.69	750
250	37	6	.77	895
300	37	6	.83	1065
350	37	6	.88	1230
400	37	6	.93	1395
500	37	6	1.01	1720
600	61	7	1.12	2080
700	61	7	1.19	2406
750	61	7	1.23	2570
800	61	7	1.26	2733
900	61	7	1.32	3059
1000	61	7	1.38	3375

Standard colors available: 18 through 10 AWG—black, white, red, blue, green, yellow, orange, brown; 8 through 2 AWG—black, white, red; 1 and larger, black.

Packaging: *1,000' spool; †500' spool; 14 through 1 AWG, 500' coil; 1/0 and larger, 500' and 1,000' reels.

BARE ARMORED GROUND WIRE



Used for grounding interior wiring systems where it is necessary to protect the copper conductor from mechanical injury. Interlocking flexible steel armor overall.

Size AWG	No. Conduc- tors	O.D. In.	Coil Length Ft.	Net Wt. Lbs. M Ft.
Solid Conductors				
8	1	.225	250	136
6	1	.260	250	168
4	1	.378	250	241

These data are approximate and subject to normal manufacturing tolerances.

ARMORED BUSHED CABLE (BX)
Copper Conductor — 600 Volts



Two, three and four conductor Polyvinyl Chloride insulated wire protected by an inter-locking armor of galvanized steel. Suitable for use in exposed and concealed work in dry locations at 60°C. Tough fibre bushings are furnished with each coil.

Size AWG	No. Conduc- tors	Insul. Thick. 64th In.	O.D. In.	No. Bush- ings	Coil Lgth. Ft.	Shpg. Wt. Lbs. M Ft.
Solid Conductors						
14	2	2	.433	35	250	198
12	2	2	.467	35	250	228
10	2	2	.509	35	250	274
8	2	3	.664	20	150	595
14	3	2	.453	35	250	232
12	3	2	.489	35	250	274
10	3	2	.534	35	200	325
8	3	3	.699	20	150	710
14	4	2	.486	35	250	275
12	4	2	.526	35	250	325
10	4	2	.577	20	150	600
8	4	3	.756	20	100	931
Stranded Conductors						
14	2	2	.450	35	250	200
12	2	2	.488	35	250	230
10	2	2	.536	35	250	280
8	2	3	.699	20	150	607
6	2	4	.837	16	100	700
4	2	4	.933	16	100	850
2	2	4	1.054	16	100	1120
14	3	2	.471	35	250	238
12	3	2	.512	35	250	279
10	3	2	.564	35	200	330
8	3	3	.736	20	150	578
6	3	4	.885	16	100	804
4	3	4	.989	16	100	1128
2	3	4	1.119	16	100	1421
14	4	2	.506	35	250	275
12	4	2	.552	35	250	325
10	4	2	.610	20	150	931
8	4	3	.798	16	100	1029
6	4	4	.965	16	100	1108
4	4	4	1.081	16	100	1215
2	4	4	1.227	16	100	1512

TYPE TW GASOLINE AND OIL-RESISTANT WIRE

Copper Conductor — 600 Volts



Single conductor Polyvinyl Chloride insulated wire with Nylon jacket approved by UL for 60°C operation as Type TW Oil-Resistant. Also approved for open wiring or in recognized metal raceways where exposed to gasoline and/or gasoline vapors.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
14	7	3	.19	26
12	7	3	.21	36
10	7	3	.23	50
8	7	3	.26	74
6	7	4	.33	118

Standard colors available: 14 through 10 AWG—black, white, red, green, orange; 8 and 6 AWG—black, white, red.

Packaging: Sizes 14 through 8 AWG, 500' carton; 6 AWG, 500' coil.

Price on Application

TYPE UF-NMC UNDERGROUND FEEDER CABLE

Copper and Aluminum Conductor — 600 Volts



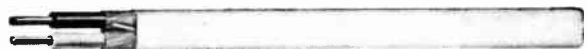
One, two and three conductor Polyvinyl Chloride insulated wire with Polyvinyl Chloride jacket suitable for direct burial in branch or feeder circuits, interior wiring in wet or dry locations and in sunlight. Maximum operating temperature 60°C.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
Single Conductor					
14	1	4	.19	28	...
12	1	4	.21	37	...
10	1	4	.23	51	...
8	1	5	.28	80	...
6	7	5	.35	121	66
4	7	5	.39	175	90
2	7	5	.45	260	125
1	19	6	.53	365	160
1/0	19	6	.57	445	189
2/0	19	6	.62	540	225
3/0	19	6	.67	660	269
4/0	19	6	.72	815	324
Two Conductor—Without Ground					
14	1	2	.24x.43	76	...
12	1	2	.23x.44	100	...
10	1	2	.26x.50	124	...
Two Conductor—With Ground					
14	1	2	.25x.43	80	...
12	1	2	.23x.44	104	...
10	1	2	.27x.50	136	...
Three Conductor—Without Ground					
14	1	2	.22x.61	112	...
12	1	2	.24x.67	156	...
10	1	2	.25x.72	180	...
Three Conductor—With Ground					
14	1	2	.23x.62	116	...
12	1	2	.24x.67	160	...
10	1	2	.26x.73	192	...

Packaging: Single conductor — sizes 14 through 8 AWG, 500' carton; 6 through 4 AWG, 500' coil; 2 AWG and larger, 1000' reel. Two and three conductor—250' carton.

TYPE NM NON-METALLIC SHEATHED CABLE

Copper and Aluminum Conductor — 600 Volts



Two and three conductor Polyvinyl Chloride insulated wire with Polyvinyl Chloride jacket suitable for both exposed and concealed work in dry locations at 60°C. Ground wire, when present, is bare copper or bare aluminum.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
Two Conductor—Without Ground Wire					
14	1	2	.20x.45	63	...
12	1	2	.22x.50	78	56
10	1	2	.24x.52	109	71
8	7	3	.39x.69	185	...
6	7	4	.46x.88	286	...
Two Conductor—With Ground Wire					
14	1	2	.20x.46	67	...
12	1	2	.23x.50	87	57
10	1	2	.25x.54	119	74
8	7	3	.39x.71	204	...
6	7	4	.45x.87	321	...
Three Conductor—Without Ground Wire					
14	1	2	.45	89	...
12	1	2	.48	123	81
10	1	2	.52	163	105
8	7	3	.72	271	185
6	7	4	.85	415	...
4	7	4	.94	599	...
Three Conductor—With Ground Wire					
14	1	2	.44	96	...
12	1	2	.47	130	82
10	1	2	.53	177	107
8	7	3	.71	290	188
6	7	4	.85	443	...
4	7	4	.96	646	...
2	7	4	1.07	911	...

Packaging: Sizes 14 through 10 AWG, 250' carton; 8 through 4 AWG, 125' coil; 2 AWG, 500' reel.

SAFETY MINERAL INSULATED CABLES

Type MI — 600 Volts



Type "H" End Seal and Gland



Type "O" End Seal and Gland

Mineral insulated metal sheathed cable is a cable in which one or more electrical conductors are insulated with a highly compressed refractory mineral insulation and enclosed in a liquid-tight and gas-tight metallic tube sheathing. May be used for services, feeders and branch circuits in both exposed and concealed work, in dry or wet locations.

Size AWG	Cable Cat. No.	Cable Dia. In.	Coil Length Ft.	Wt. Lbs. M	End Seal Cat. No.	Gland Cat. No.	Equiv. Cond. Size In.
One Conductor							
16	215/1	.215	2100	81	215/1	215	3/8
14	230/1	.230	1890	91	230/1	230	3/8
12	246/1	.246	1605	106	246/1	246	3/8
10	277/1	.277	1200	137	277/1	277	3/8
8	309/1	.309	950	172	309/1	309	1/2
6	340/1	.340	850	217	340/1	340	1/2
4	402/1	.402	600	314	402/1	402	1/2
3	434/1	.434	430	361	434/1	434	3/4
2	465/1	.465	385	425	465/1	465	3/4
1	496/1	.496	365	501	496/1	496	3/4
1/0	543/1	.543	315	618	543/1	543	3/4
2/0	590/1	.590	255	752	590/1	590	1
3/0	637/1	.637	235	892	637/1	637	1
4/0	699/1	.699	195	1108	699/1	699	1

Size AWG	Cable Cat. No.	Cable Dia. In.	Coil Length Ft.	Wt. Lbs. M	End Seal Cat. No.	Gland Cat. No.	Equiv. Cond. Size In.
Two Conductor							
16	340/2	.340	800	172	340/2	340	1/2
14	371/2	.371	670	203	371/2	371	1/2
12	402/2	.402	555	244	402/2	402	1/2
10	449/2	.449	430	306	449/2	449	3/4
8	512/2	.512	345	405	512/2	512	3/4
6	590/2	.590	255	556	590/2	590	1
4	684/2	.684	180	776	684/2	684	1
Three Conductor							
16	355/3	.355	700	197	355/3	355	1/2
14	387/3	.387	620	228	387/3	387	1/2
12	434/3	.434	440	300	434/3	434	3/4
10	480/3	.480	380	366	480/3	480	3/4
8	543/3	.543	290	479	543/3	543	3/4
6	621/3	.621	220	657	621/3	621	1
4	730/3	.730	160	947	730/3	730	1
Four Conductor							
16	387/4	.387	590	213	387/4	387	1/2
14	418/4	.418	520	259	418/4	418	3/4
12	465/4	.465	385	362	465/4	465	3/4
10	527/4	.527	305	448	527/4	527	3/4
8	590/4	.590	250	587	590/4	590	1
6	684/4	.684	190	842	684/4	684	1
Seven Conductor							
16	449/7	.449	550	304	449/7	449	3/4
14	496/7	.496	450	364	496/7	496	3/4
12	543/7	.543	385	483	543/7	543	3/4
10	621/7	.621	330	684	621/7	621	1

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

CROSS LINK POLYETHYLENE CONTROL CABLE
Copper Conductor — 600 Volts

Insulated conductor with 30 mils of Polyethylene (25 mils on 16 AWG size) and Polyvinyl Chloride jacket. Suitable for important control circuits, leads from temperature recording devices on rotating equipment to switchboard, motor leads, etc. Can be installed in open air, in ducts or conduit and direct burial. Not recommended for direct burial as a single conductor. Maximum operating temperature 90°C.



No. Conductors	16 AWG* (7x.0192" Strands)			14 AWG* (7x.0242" Strands)			12 AWG* (7x.0305" Strands)			10 AWG* (7x.0385" Strands)			9 AWG (19/22)		
	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.
1	40	.15	41	45	.17	23	45	.19	32	45	.21	47	45	.22	49
2	45	.22	69	45	.36	89	45	.40	115	45	.45	159	45	.47	159
3	45	.34	83	45	.38	110	45	.42	147	45	.47	200	45	.50	221
4	45	.37	100	45	.41	135	45	.46	181	60	.55	270	60	.58	280
5	45	.40	121	45	.45	164	45	.51	247	60	.60	330	60	.63	337
6	45	.43	129	45	.49	180	60	.58	264	60	.61	367	60	.69	393
7	45	.43	164	45	.49	193	60	.58	281	60	.61	410	60	.69	467
8	45	.47	171	60	.55	206	60	.63	323	60	.71	448	60	.75	510
9	45	.50	188	60	.60	278	60	.67	374	60	.76	527	60	.81	572
10	60	.56	229	60	.66	315	60	.73	430	60	.81	603	60	.86	631
12	60	.57	233	60	.66	322	60	.73	440	80	.87	667	80	.94	742
14	60	.62	273	60	.71	399	60	.80	515	80	.94	770	80	.99	858
15	60	.64	287	60	.75	417	60	.82	548	80	.97	810	80	1.04	920
16	60	.65	305	60	.75	424	80	.88	653	80	.97	850	80	1.04	975
18	60	.68	339	60	.79	467	80	.93	707	80	1.05	930	80	1.10	1091
19	60	.68	350	60	.79	473	80	.93	744	80	1.05	969	80	1.10	1149
20	60	.72	369	80	.87	557	80	.98	770	80	1.08	1109	80	1.16	1205
22	60	.75	405	80	.90	605	80	.98	862	80	1.10	1204	80	1.22	1319
24	60	.78	441	80	.94	642	80	1.05	951	80	1.19	1299	80	1.29	1449
25	60	.79	465	80	.97	659	80	1.08	1005	80	1.21	1350	80	1.29	1501
26	60	.79	487	80	.97	677	80	1.08	1010	80	1.21	1400	80	1.29	1557
27	60	.81	516	80	.97	687	80	1.08	1017	80	1.21	1451	80	1.31	1610
28	80	.88	544	80	.97	712	80	1.08	1023	80	1.21	1508	80	1.36	1662
30	80	.88	597	80	1.02	773	80	1.14	1042	80	1.25	1622	80	1.36	1772
32	80	.90	666	80	1.06	812	80	1.15	1132	80	1.30	1733	80	1.42	1846
34	80	.93	739	80	1.06	857	80	1.19	1226	80	1.30	1858	80	1.47	1942
37	80	.94	868	80	1.10	920	80	1.23	1430	80	1.35	2047	80	1.47	2072

*Sizes 16, 14, 12 and 10 AWG also supplied in 19 strands.
Note: Can be supplied in any number of conductors required.
Packaging: 1000' and longer.

SMALL DIAMETER POLYETHYLENE NYLON PVC CONTROL CABLE — 75°C
Copper Conductor — 600 Volts

Insulated conductor with .016" Polyethylene and .004" Nylon and overall covering with a Polyvinyl Chloride jacket. Suitable for conduit, tray, duct, aerial or direct burial installations. Resistant to oils, chemicals, flame and moisture. Maximum operating temperature 75°C.



No. Conductors	16 AWG* (7x.0192" Strands)			14 AWG* (7x.0242" Strands)			12 AWG* (7x.0305" Strands)			9 AWG (19/22)		
	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.
2	.305	10	50	.335	15	60	.370	20	81	.445	35	132
3	.325	10	65	.350	15	75	.390	20	104	.470	35	174
4	.350	8	77	.380	12	95	.425	16	130	.515	28	224
5	.380	8	93	.415	12	110	.465	16	157	.600	28	294
6	.410	8	109	.450	12	131	.505	16	183	.650	28	339
7	.410	7	124	.450	11	141	.505	14	200	.650	25	374
8	.440	7	139	.485	11	166	.580	14	251	.700	25	430
9	.470	7	148	.525	11	184	.620	14	285	.755	25	491
10	.505	7	173	.590	11	227	.665	14	313	.810	25	542
11	.505	7	189	.600	11	240	.670	14	325	.820	25	569
12	.520	7	204	.615	11	246	.690	14	349	.890	25	649
13	.570	7	219	.630	11	265	.705	14	373	.905	25	695
14	.585	7	234	.645	11	282	.725	14	400	.930	25	743
15	.605	7	250	.665	11	305	.750	14	425	.960	25	795
16	.615	7	262	.680	11	318	.765	14	455	.985	25	843
17	.635	7	274	.700	11	335	.790	14	473	1.015	25	886
18	.645	7	286	.715	11	355	.805	14	506	1.035	25	940
19	.645	7	300	.715	11	363	.805	14	521	1.035	25	975

*Sizes 16, 14 and 12 AWG also supplied in 19 strands.
Note: Can be supplied in any number of conductors required.
Packaging: 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

TYPE 2010 GENERAL PURPOSE AND STATION CONTROL CABLE

Copper Conductor — 600 Volts

Insulated conductor with 20 mils of Polyethylene and then covered with 10 mils of Polyvinyl Chloride for double-wall insulation, color coded. Polyvinyl Chloride jacket overall provides protection against moisture and flame and excellent resistance to oils, grease, acids, and chemicals. Suitable for use in conduit, duct, aerial or direct burial. Maximum operating temperature 75°C.



No. Conductors	16 AWG* (7x.0192" Strands)			14 AWG* (7x.0242" Strands)			12 AWG* (7x.0305" Strands)			10 AWG* (7x.0385" Strands)			9 AWG (19x22)		
	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.
1	25	.14	14	25	.174	22	25	.193	31	25	.217	44	25	.228	56
2†	45	†	44	45	†	61	45	†	80	45	†	108	45	†	149
3	45	.35	67	45	.405	94	45	.446	120	45	.498	170	45	.522	204
4	45	.38	81	45	.441	115	45	.487	154	60	.577	229	60	.604	284
5	45	.41	94	45	.480	140	45	.531	190	60	.628	282	60	.658	348
6	45	.44	111	45	.522	158	60	.611	239	60	.683	324	60	.716	389
7	45	.44	120	45	.522	173	60	.611	256	60	.683	360	60	.716	419
8	45	.48	138	60	.596	214	60	.658	293	60	.738	413	60	.774	474
9	45	.51	156	60	.637	240	60	.706	326	60	.792	465	60	.832	544
10	60	.58	191	60	.693	271	60	.769	365	80	.909	549	80	.953	644
12	60	.60	215	60	.715	306	60	.794	425	80	.938	636	80	.984	741
14	60	.63	243	60	.750	351	60	.834	485	80	.984	732	80	1.032	854
15	60	.64	259	60	.769	374	60	.856	523	80	1.009	781	80	1.059	906
16	60	.66	267	60	.790	390	80	.924	574	80	1.036	812	80	1.088	945
18	60	.68	302	60	.832	435	80	.971	642	80	1.091	907	80	1.146	1061
19	60	.69	310	60	.832	449	80	.971	663	80	1.091	945	80	1.146	1091
20	60	.73	318	80	.918	514	80	1.018	708	80	1.146	993	80	1.204	1148
22	60	.76	334	80	.959	557	80	1.066	771	80	1.200	1083	80	1.262	1253
24	60	.81	351	80	1.015	616	80	1.129	848	80	1.273	1189	80	1.339	1381
25	60	.81	397	80	1.015	622	80	1.129	876	80	1.273	1232	80	1.339	1429
26	60	.81	417	80	1.015	653	80	1.129	903	80	1.273	1270	80	1.339	1477
27	60	.84	434	80	1.036	672	80	1.153	932	80	1.301	1312	80	1.369	1526
28	60	.86	451	80	1.048	693	80	1.167	962	80	1.316	1355	80	1.385	1576
30	80	.90	490	80	1.071	740	80	1.192	1027	80	1.346	1448	80	1.416	1686
32	80	.92	518	80	1.091	781	80	1.216	1086	80	1.373	1534	80	1.445	1787
34	80	.94	546	80	1.154	823	80	1.287	1148	80	1.455	1614	80	1.527	1892
37	80	.96	588	80	1.154	863	80	1.287	1198	80	1.455	1741	80	1.527	2018

*Size 16 AWG also supplied in 26 strands. Sizes 14, 12 and 10 AWG also supplied in 19 strands.

†Flat cable. 16 AWG—.21x.33 O.D.; 14 AWG—.233x.366 O.D. 12 AWG—.252x.404 O.D.; 10 AWG—.276x.452 O.D.; 9 AWG—.291x.482 O.D.

Note: Size 16 AWG approved with 15 mils of Polyethylene insulation and covered with 10 mils of Polyvinyl Chloride.

Note: Can be supplied in any number of conductors required.

Packaging: 1000' and longer.

SMALL DIAMETER POLYETHYLENE NYLON PVC CONTROL CABLE — 90°C

Copper Conductor — 600 Volts

Insulated conductor with .026" Polyethylene and .004" Nylon (.021" Polyethylene and .004" Nylon on 16 AWG) and overall covering with a Polyvinyl Chloride jacket. Suitable for conduit, tray, duct, aerial or direct burial installations. Resistant to oils, chemicals, flame and moisture. Maximum operating temperature 90°C.



No. Conductors	16 AWG* (7x.0192" Strands)			14 AWG* (7x.0242" Strands)			12 AWG* (7x.0305" Strands)			9 AWG (19/22)		
	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.
2	.32	20	55	.37	25	71	.40	30	91	.48	45	143
3	.34	20	65	.39	25	85	.43	30	113	.51	45	188
4	.37	16	80	.42	20	107	.47	24	143	.59	36	255
5	.40	16	95	.46	20	128	.51	24	173	.65	36	312
6	.43	16	109	.50	20	150	.59	24	221	.70	36	367
7	.43	14	115	.50	18	161	.59	21	240	.70	32	405
8	.46	14	135	.58	18	210	.64	21	278	.76	32	465
9	.50	14	155	.62	18	231	.68	21	311	.82	32	526
10	.57	14	195	.66	18	246	.73	21	335	.93	32	615
11	.57	14	200	.66	18	265	.73	21	350	.93	32	630
12	.59	14	192	.69	18	273	.76	21	377	.96	32	698
14	.62	14	240	.72	18	312	.80	21	431	1.01	32	775
16	.65	14	265	.76	18	365	.89	21	523	1.07	32	880
19	.68	14	300	.80	18	420	.93	21	599	1.12	32	1048

*Sizes 16, 14 and 12 AWG also supplied in 19 strands.

Note: Can be supplied in any number of conductors required.

Packaging: 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

PVC STATION CONTROL CABLE

Copper Conductor — 600 Volts

Conductor insulated with $\frac{3}{4}$ " Polyvinyl Chloride and Polyvinyl Chloride jacket. Resistant to the effects of weather, sunlight, ozone, oils, grease and most acids and chemicals. Suitable for operating switchgear, boiler room control, remote substation control, supervisory control systems, variable speed motor control, etc. Can be installed in conduits, ducts, supported aerial and direct burial. Not recommended for direct burial as a single conductor.

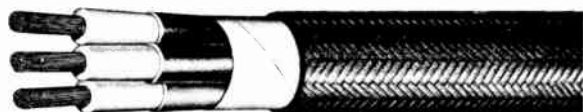


No. Conductors	14 AWG* (7x.0242" Strands)			12 AWG* (19/25)			10 AWG* (7x.0385" Strands)			9 AWG (19/22)		
	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.
1	61	.20	33	61	.22	40	61	.24	54	61	.25	79
2†	45	†	108	45	†	144	45	†	167	60	†	195
3	45	.45	143	45	.49	180	60	.57	220	60	.60	283
4	45	.49	171	60	.57	247	60	.62	299	60	.65	337
5	60	.57	209	60	.63	283	60	.69	344	60	.72	404
6	60	.62	269	60	.68	318	60	.75	408	60	.78	452
7	60	.62	282	60	.68	336	60	.75	442	60	.78	500
8	60	.67	315	60	.79	386	60	.81	448	80	.88	606
9	60	.72	345	60	.79	444	80	.91	588	80	.95	668
10	60	.78	383	80	.90	494	80	.99	605	80	1.04	798
12	60	.80	432	80	.93	546	80	1.02	730	80	1.07	891
14	80	.89	519	80	.98	691	80	1.08	821	80	1.12	980
15	80	.92	537	80	1.00	724	80	1.12	861	80	1.17	1058
16	80	.94	564	80	1.03	755	80	1.15	901	80	1.19	1125
18	80	1.00	631	80	1.09	821	80	1.20	1085	80	1.25	1423
19	80	1.00	644	80	1.09	839	80	1.20	1132	80	1.25	1459
20	80	1.03	694	80	1.14	877	80	1.28	1168	80	1.32	1523
22	80	1.07	736	80	1.18	975	80	1.32	1260	80	1.36	1628
24	80	1.12	847	80	1.24	1217	80	1.39	1344	80	1.44	1717
25	80	1.15	859	80	1.27	1244	80	1.43	1395	80	1.47	1772
26	80	1.15	885	80	1.27	1271	80	1.43	1412	80	1.47	1819
27	80	1.15	914	80	1.27	1308	80	1.43	1545	80	1.47	1873
28	80	1.21	942	80	1.35	1345	80	1.52	1595	80	1.56	1928
30	80	1.21	979	80	1.35	1392	80	1.52	1662	80	1.56	2020
32	80	1.24	1046	80	1.37	1453	80	1.54	1746	80	1.59	2090
34	80	1.27	1186	80	1.40	1490	80	1.58	1872	80	1.62	2232
37	80	1.31	1257	80	1.46	1572	80	1.64	1986	110	1.75	2926

*Size 14 and 10 AWG can be furnished in 19 strands. Size 12 AWG can be furnished in 7 strands.
 †Flat cable. 14 AWG—.26x.42 O.D.; 12 AWG—.28x.46 O.D.; 10 AWG—.30x.51 O.D.; 9 AWG—.34x.56 O.D.
 Note: Can be supplied in any number of conductors required.
 Packaging: 1000' and longer.

SILICONE RUBBER CONTROL CABLE

Copper Conductor — 600 Volts



Each conductor insulated with $\frac{3}{4}$ " silicone rubber, color coded and glass braided. Conductors cabled with asbestos fillers and covered overall with an asbestos braid that has a heat and moisture resistant finish. Maximum operating temperature 125°C in wet or dry locations.

No. Conductors	14 AWG (19/27)		12 AWG (19/25)		9 AWG (19/22)	
	O.D. In.	Net Wt. Lbs. M Ft.	O.D. In.	Net Wt. Lbs. M Ft.	O.D. In.	Net Wt. Lbs. M Ft.
2	.436	100	.474	116	.548	192
3	.464	121	.504	155	.584	259
4	.512	157	.558	194	.648	330
5	.564	191	.615	244	.716	386
6	.618	232	.674	294	.783	441
7	.618	245	.674	316	.788	501
8	.673	285	.736	363	.860	585
9	.729	314	.798	403	.934	665
10	.790	337	.865	436	1.014	729
11	.805	360	.888	465	1.033	770
12	.818	390	.896	503	1.050	846

Note: Can be supplied in any number of conductors required.
 Packaging: 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

RUBBER INSULATED CONTROL CABLE

Copper Conductor — 600 Volts

Each conductor insulated with 3/64" of rubber and covered overall with a Neoprene jacket. Suitable for important control circuits, leads from temperature recording devices on rotating equipment to switchboard, motor leads, etc. Can be installed in open air, in ducts or conduit and direct burial. Not recommended for direct burial as a single conductor.



No. Conductors	14 AWG* (19/27)			12 AWG* (19/25)			10 AWG* (19/23)			9 AWG (19/22)		
	Outer Jacket Thick. Mils.	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils.	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils.	O.D. In.	Net Wt. Lbs. M Ft.	Outer Jacket Thick. Mils.	O.D. In.	Net Wt. Lbs. M Ft.
1	45	.26	50	45	.28	51	45	.32	76	45	.32	71
2†	45	†	112	60	†	198	60	†	188	60	†	234
3	60	.56	201	60	.60	235	60	.65	319	60	.67	342
4	60	.61	233	60	.66	313	60	.71	376	60	.74	407
5	60	.67	300	60	.72	350	60	.78	427	60	.81	507
6	60	.73	337	60	.79	400	80	.90	520	80	.93	584
7	60	.73	351	60	.79	420	80	.90	549	80	.93	621
8	60	.79	391	80	.90	496	80	.98	618	80	1.01	720
9	80	.90	466	80	.96	554	80	1.06	709	80	1.08	876
10	80	.97	496	80	1.05	632	80	1.14	867	80	1.18	994
12	80	1.00	552	80	1.08	679	80	1.18	968	80	1.22	1076
14	80	1.05	612	80	1.17	842	80	1.24	1072	80	1.28	1201
15	80	1.08	642	80	1.19	871	80	1.31	1113	80	1.35	1264
16	80	1.11	789	80	1.26	942	80	1.31	1160	80	1.35	1520
18	80	1.18	828	80	1.33	1025	80	1.38	1458	80	1.43	1630
19	80	1.18	847	80	1.33	1052	80	1.38	1496	80	1.43	1677
20	80	1.23	909	80	1.37	1085	80	1.47	1543	80	1.51	1716
22	80	1.29	972	80	1.44	1363	80	1.55	1653	80	1.60	1848
24	80	1.33	1035	80	1.51	1448	80	1.63	1770	110	1.74	2030
25	80	1.37	1063	80	1.52	1474	80	1.63	1812	110	1.74	2073
26	80	1.37	1082	80	1.55	1505	80	1.63	1892	110	1.74	2124
27	80	1.39	1302	80	1.57	1543	110	1.73	1948	110	1.78	2195
28	80	1.45	1327	80	1.58	1595	110	1.79	1994	110	1.84	2241
30	80	1.45	1390	80	1.63	1656	110	1.79	2098	110	1.84	2358
32	80	1.51	1445	80	1.67	1669	110	1.86	2194	110	1.92	2474
34	80	1.57	1504	110	1.73	1847	110	1.93	2301	110	2.00	3158
37	80	1.57	1589	110	1.80	1969	110	1.93	2998	110	2.00	3328

*Sizes 14, 12 and 10 AWG can be furnished in solid or 7 strands.

†Flat cable. 14 AWG—.30x.50 O.D.; 12 AWG—.34x.56 O.D.; 10 and 9 AWG—.38x.63 O.D.

Note: Can be supplied in any number of conductors required.

Packaging: 1000' and longer.

SILICONE RUBBER-INTERLOCKED ARMOR CONTROL CABLE

Copper Conductor — 600 Volts



Each conductor insulated with 3/64" silicone rubber and glass braided with galvanized steel interlocked armor. Recommended for connection of control or signal circuits to withstand constant high temperatures.

No. Conductors	12 AWG (7x.0305" Strands)		No. Conductors	10 AWG (7x.0385" Strands)	
	O.D. In.	Net Wt. Lbs. M Ft.		O.D. In.	Net Wt. Lbs. M Ft.
2	.65	288	2	.69	323
3	.68	358	3	.73	400
4	.73	433	4	.79	488
5	.79	513	5	.85	601
6	.85	618	6	.92	707
7	.85	651	7	.92	772
8	.91	783	8	.99	886
9	.98	887	9	1.07	1008
10	1.05	915	10	1.14	1042
12	1.09	1034	12	1.22	1172

Packaging: 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

LOW ENERGY SAFETY CONTROL WIRE

Copper Conductor — 100 Volts



Flat parallel type solid conductor with thermoplastic insulation and polarity identification ridge. Suitable for fire detection, audio signal, general signal and control circuits. Available colors: black and white.

Size AWG	No. Conductors	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
18	2	1	2	.112x.215	20
18	3	1	2	.112x.322	30

Packaging: 500' spool.

Remember, Graybar can take care of your requirements for wire, cable, cords and everything else electrical too! Save time and money by relying on Graybar, the convenient, responsible and dependable source for 100,000 quality electrical products.

Price on Application

TYPE SO PORTABLE CONTROL CABLE

Copper Conductor — 600 Volts

Extra flexible conductor with rubber insulation and Neoprene jacket overall. Suitable for connecting push-button stations to control panels, leads from temperature control devices, traffic control systems, fire alarm controls, motor leads, etc. Can be installed in conduits, ducts, raceways and open wiring.



No. Conductors	2/64" Insulation			16 AWG (26/30)			14 AWG (41/30)			12 AWG (65/30)			No. Conductors	3/64" Insulation 10 AWG (104/30)		
	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.		Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
5	5	.495	128	5	.525	153	6	.685	262	6	.730	319	5	6	.815	419
6	5	.525	146	5	.565	177	6	.740	302	6	.800	372	6	6	.880	484
7	5	.565	165	5	.605	202	6	.795	329	6	.860	429	7	6	.980	590
8	5	.600	184	5	.645	221	6	.845	373	6	.915	472	8	7	1.050	652
9	5	.640	200	6	.720	266	6	.905	414	7	1.015	548	9	7	1.125	722
10	5	.640	208	6	.720	278	6	.905	434	7	1.015	577	10	7	1.125	762
12	5	.660	228	6	.740	305	6	.930	481	7	1.045	642	12	7	1.155	853
14	6	.715	278	6	.775	348	6	.980	556	7	1.100	740	16	7	1.290	1121
16	6	.760	314	6	.825	386	7	1.075	657	7	1.155	837	20	8	1.460	1410
18	6	.800	347	6	.860	430	7	1.125	714	7	1.225	923	24	8	1.600	1645
20	6	.835	378	6	.900	466	7	1.180	786	7	1.285	1002	26	8	1.600	1748
22	6	.870	409	6	.940	508	7	1.230	857	8	1.375	1144	28	8	1.730	1885
24	6	.910	434	7	1.015	573	7	1.290	920	8	1.445	1230	32	9	1.834	2186
26	6	.910	457	7	1.015	604	7	1.290	986	8	1.445	1295	36	9	1.894	2405
28	7	.995	527	7	1.070	654	8	1.400	1098	8	1.525	1405	40	9	2.034	2665
30	7	.995	542	7	1.070	677	8	1.400	1138	8	1.525	1458	44	9	2.119	2894
32	7	1.035	580	7	1.115	714	8	1.460	1220	..	..	..	48	9	2.154	3116
34	7	1.070	615	7	1.155	781	8	1.510	1300	..	..	..	52	9	2.206	3340
36	7	1.070	630	7	1.155	807	8	1.510	1338	..	..	..	56	9	2.281	3558
40	7	1.140	703	7	1.235	893	8	1.640	1430	9	1.824	1998	..	..	..	..
44	7	1.180	744	7	1.275	928	8	1.710	1619	9	1.904	2147	..	..	..	..
48	7	1.200	788	7	1.295	1000	8	1.735	1734	9	1.934	2307	..	..	..	..
52	7	1.230	846	8	1.365	1117	8	1.780	1843	9	1.984	2466	..	..	..	..
56	7	1.270	905	8	1.410	1189	9	1.860	2023	9	2.044	2616	..	..	..	..
60	7	1.305	959	8	1.470	1270	9	1.916	2152	9	2.096	2787	..	..	..	..
64	8	1.400	1073	8	1.511	1356	9	1.974	2279	9	2.159	2954	..	..	..	..
68	8	1.433	1130	8	1.550	1431	9	2.024	2406	9	2.216	3122	..	..	..	..
72	8	1.480	1187	8	1.600	1505	9	2.094	2536	9	2.294	3291	..	..	..	..
76	8	1.498	1240	8	1.620	1572	9	2.119	2648	..	..	..	..	..	..	..
80	8	1.530	1291	8	1.655	1639	9	2.166	2759	..	..	..	..	..	..	..
84	8	1.568	1347	8	1.695	1711	9	2.221	2884	..	..	..	..	..	..	..
88	8	1.600	1402	8	1.730	1787	9	2.269	3012	..	..	..	..	..	..	..
90	8	1.600	1424	8	1.730	1817	9	2.269	3062	..	..	..	..	..	..	..

Packaging: 1000' and longer.

TELEMETERING AND SUPERVISORY CONTROL CABLE

Copper Conductor — 300 Volts



Multi-pair conductors with Polyethylene insulation and Polyvinyl Chloride jacket overall. Copper tape shield is applied over the cable assembly on single jacket type and between jackets on the double jacket type. Resistant to moisture and effects of ozone, oils, grease, flame, solvents, many acids and chemicals.

Recommended for telemetering, supervisory control, intercom circuits, pilot relay circuits, railroad communication and suburban telephone operation. Maximum operating temperature 75°C.

Single Jacket—for conduit, duct or supported aerial installations.

Double Jacket—for conduit, duct or supported aerial installations and direct burial.

These data are approximate and subject to normal manufacturing tolerances.

No. Pairs	Single Jacket			Double Jacket			
	Outer Jacket 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Inner Jacket 64th In.	Outer Jacket 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
22 AWG Solid—.015" Insulation							
6	3	.37	88	3	3	.47	154
12	4	.48	142	3	4	.61	227
18	4	.60	203	3	4	.69	325
25	4	.68	278	3	4	.78	445
50	5	.95	485	4	5	1.07	808
75	5	1.12	655	4	6	1.28	1199
100	6	1.30	867	5	6	1.45	1488
19 AWG Solid—.015" Insulation							
6	4	.57	256	3	.44	129	3
12	4	.70	363	4	.61	227	3
18	4	.80	512	4	.71	319	3
25	5	.94	612	5	.81	408	3
50	6	1.29	1473	5	1.13	802	4
75	6	1.53	1992	6	1.37	1160	5
100	7	1.74	2685	6	1.55	1446	5
16 AWG Solid—.020" Insulation							
6	4	.60	223	3	4	.70	357
12	5	.79	389	3	5	.92	585
18	5	.91	566	4	5	1.08	943
25	5	1.01	711	4	6	1.26	1304
50	6	1.41	1413	5	6	1.69	2424
75	7	1.68	2030	6	7	2.05	3552
100	7	1.97	2770	6	8	2.33	5190

Packaging: Available in long length reels.

Price on Application

**TRAFFIC SIGNAL, FIRE ALARM
AND SIGNAL CONTROL CABLE**
(Conform to IMSA Specifications)
Copper Conductor — 600 Volts



Solid conductor available with rubber insulation and Neoprene or Polyvinyl Chloride jacket, or Polyethylene insulation with Polyvinyl Chloride jacket. Used for traffic control, fire alarm, police signaling and supervisory control systems. Can be installed in conduit, duct, aerially on messengers or direct burial.

No. Conductors	14 AWG			12 AWG		
	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
IMSA-5 Specifications						
3/64" Rubber Insulation—Neoprene Jacket						
3	5	.58	175	6	.65	170
4	6	.66	230	6	.71	275
5	6	.71	265	6	.76	330
6	6	.76	310	6	.81	385
7	6	.76	330	6	.81	410
8	6	.82	360	6	.87	455
9	6	.87	405	7	.96	540
10	7	.97	475	7	1.04	595
11	7	.97	495	7	1.04	625
12	7	1.01	522	7	1.08	665

IMSA-19 & 20 Specifications							
.030" PVC or Polyethylene Insulation—PVC Jacket							
No. Conductors	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	No. Conductors	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
3	5	.43	106	5	.49	150	
4	5	.46	130	5	.53	183	
5	5	.50	148	5	.57	218	
6	5	.53	172	6	.64	274	
7	5	.53	184	6	.64	293	
8	5	.56	212	6	.68	338	
9	6	.63	254	6	.73	376	
10	6	.67	276	6	.78	390	
11	6	.67	292	6	.78	415	
12	6	.69	309	6	.80	448	

Note: Can be supplied in any number of conductors required.
Packaging: 1000' and longer.

RAILWAY SIGNAL CONTROL CABLE
(Conform to AAR Specifications)
Copper Conductor — 600 Volts



Each solid conductor insulated with 1/64" rubber and covered with 1/64" Neoprene; overall jacket is Neoprene. May be installed in ducts or buried directly in the earth. Meet the requirements of the Association of American Railroads.

No. Conductors	14 AWG			12 AWG		
	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Jacket Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
2*	6	*	179	6	*	213
3	6	.72	305	6	.76	364
4	6	.78	366	6	.82	437
5	6	.85	431	6	.89	517
6	6	.92	507	7	1.01	652
7	6	.92	519	7	1.01	671
10	7	1.18	834	7	1.25	1010
12	7	1.22	903	7	1.29	1108
16	7	1.35	1117	8	1.46	1433
19	8	1.46	1312	8	1.54	1615
24	8	1.68	1720	8	1.78	2125
27	8	1.72	1821	8	1.82	2258
30	8	1.78	1961	9	1.99	2572
37	9	1.99	2448	9	2.10	3012
9 AWG						
2*	6	*	284			
3	6	.80	474			
4	6	.90	581			
5	7	1.02	740			
6	7	1.11	879			
7	7	1.11	916			
10	8	1.42	1393			
12	8	1.46	1524			
16	8	1.62	1915			
19	8	1.71	2181			
24	9	2.05	2954			
27	9	2.09	3159			
30	9	2.17	3430			
37	9	2.33	4064			

*Flat cable. 14 AWG—.46x.69 O.D.; 12 AWG—.47x.72 O.D.; 9 AWG—.51x.79 O.D.
Packaging: 1000' and longer.

TYPE AVA CONTROL CABLE
Copper Conductor — 600 Volts



Each conductor insulated with asbestos - varnished cambric-asbestos, cotton braid and overall braid of asbestos. Recommended for connection of control or signal circuits, in dry locations either exposed or in conduit where the operating temperature is too high for other insulations. Resists heat, flame, moisture, oil, grease and corrosive vapors. Maximum operating temperature 110°C.

These data are approximate and subject to normal manufacturing tolerances.

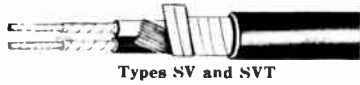
No. Conductors	12 AWG (19/25)		No. Conductors	9 AWG (19/22)	
	O.D. In.	Net Wt. Lbs. M Ft.		O.D. In.	Net Wt. Lbs. M Ft.
1	.280	53	1	.320	80
2	.570	155	2	.655	225
3	.610	190	3	.695	285
4	.670	240	4	.765	350
5	.735	270	5	.845	410
6	.805	320	6	.925	490
7	.805	345	7	.925	550
8	.875	395	8	1.010	605
9	.945	450	9	1.095	690
10	1.025	490	10	1.185	755
11	1.025	515	11	1.185	815
12	1.060	555	12	1.225	865
13	1.090	600	13	1.260	935
14	1.120	640	14	1.300	995
15	1.160	690	15	1.345	1065
16	1.185	725	16	1.375	1130
17	1.230	775	17	1.430	1205
18	1.255	815	18	1.455	1270
19	1.255	840	19	1.455	1335

Packaging: 1000' and longer.

Price on Application

**TYPES SV, SVO, SVT AND SVTO
LIGHT WEIGHT PORTABLE CORDS**

Copper Conductor — 300 Volts



Types SV and SVT



Types SVO and SVTO

Two and three conductor light weight, small diameter cord with great flexibility. Designed for use on vacuum cleaners but can be used for light duty appliances, floor polishers, etc. Maximum operating temperature 60°C.

Type SV—Rubber insulation and jacket.

Type SVO—Rubber insulation and Neoprene jacket which is resistant to oils, acids, etc.

Type SVT—Plastic insulation and jacket.

Type SVTO—Plastic insulation and jacket that is resistant to oils, acids, etc.

Size AWG	No. Conduc- tors	Insul. Thick. 64th In.	Strand- ing	O.D. In.	Net Wt. Lbs. M Ft.
18	2	1	41x34	.245	40
18	3	1	41x34	.255	48

Packaging: 250' spool.

**TYPES SJ AND SJO MEDIUM DUTY
PORTABLE CORDS**

Copper Conductor — 300 Volts



Type SJ



Type SJO

Multi-conductor medium duty cord suitable for use with washing machines, refrigerators, portable appliances, small motors and tools. Maximum operating temperature 60°C.

Type SJ—Rubber insulation and jacket.

Type SJO—Rubber insulation and Neoprene jacket which is resistant to oils, acids, etc.

Size AWG	No. Conduc- tors	Insul. Thick. 64th In.	Strand- ing	O.D. In.	Net Wt. Lbs. M Ft.	
					"SJ"	"SJO"
Stationary Service						
18	2	2	16x30	.300	50	55
18	3	2	16x30	.330	67	68
18	4	2	16x30	.357	82	84
16	2	2	26x30	.325	64	66
16	3	2	26x30	.355	84	86
16	4	2	26x30	.387	102	104
14*	2	2	41x30	.357	80	84
14*	3	2	41x30	.378	104	107
14*	4	2	41x30	.418	128	131
Constant Service						
18	2	2	41x34	.300	52	55
18	3	2	41x34	.330	67	68
18	4	2	41x34	.357	82	84
16	2	2	65x34	.325	64	66
16	3	2	65x34	.355	84	86
16	4	2	65x34	.387	102	104

*Not UL listed.

Packaging: 250' spool.

These data are approximate and subject to normal manufacturing tolerances.

**TYPE STO HEAVY DUTY
PORTABLE CORD**

Copper Conductor — 600 Volts



Multi-conductor heavy duty cord with plastic insulation and oil-resistant plastic jacket overall. Suitable for use with machinery subject to hard usage. Maximum operating temperature 60°C.

Size AWG	No. Conduc- tors	Insul. Thick. 64th In.	Strand- ing	O.D. In.	Net Wt. Lbs. M Ft.
18	2	2	16x30	.388	78
18	3	2	16x30	.403	89
18	4	2	16x30	.435	108
16	2	2	26x30	.403	86
16	3	2	26x30	.427	105
16	4	2	26x30	.485	135
14	2	3	41x30	.528	170
14	3	3	41x30	.560	193
14	4	3	41x30	.605	225
12	2	3	65x30	.605	208
12	3	3	65x30	.635	250
12	4	3	65x30	.665	276
10	2	3	104x30	.640	256
10	3	3	104x30	.690	328
10	4	3	104x30	.745	380

Packaging: Sizes 18/2, 18/3, 16/2, 16/3, 250' spool; 18/4, 16/4, 250' coil; balance of sizes 250' reel.

**TYPES SJT AND SJTO MEDIUM DUTY
PORTABLE CORDS**

Copper Conductor — 300 Volts



Type SJT



Type SJTO

Multi-conductor medium duty cord suitable for use with electric mixers, polishers, washing machines, portable appliances, etc. Maximum operating temperature 60°C.

Type SJT—Plastic insulation and jacket.

Type SJTO—Plastic insulation and jacket that is resistant to oils, acids, etc.

Size AWG	No. Conduc- tors	Insul. Thick. 64th In.	Strand- ing	O.D. In.	Net Wt. Lbs. M Ft.	
					"SJT"	"SJTO"
Stationary Service						
18	2	2	16x30	.300	50	49
18	3	2	16x30	.330	63	61
18	4	2	16x30	.360	..	77
16	2	2	26x30	.325	59	59
16	3	2	26x30	.355	78	78
16	4	2	26x30	.390	..	93
14*	2	2	41x30	.360	..	74
14*	3	2	41x30	.380	..	100
14*	4	2	41x30	.420	..	122

*Not UL listed.

Packaging: 250' spool.

Price on Application

TYPES S AND SO HEAVY DUTY PORTABLE CORDS

Copper Conductor — 600 Volts



Type S



Type SO

Multi-conductor heavy duty cord for extra hard usage such as garage portable lights, battery chargers, portable stage lights, heavy tools and equipment. Maximum operating temperature 60°C.

Type S—Rubber insulation and jacket.

Type SO—Rubber insulation and Neoprene jacket which is resistant to oils, acids, etc.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Strand-ing	O.D. In.	Net Wt. Lbs. M Ft.	
					"S"	"SO"
18	2	2	16x30	.390	80	86
18	3	2	16x30	.405	92	95
18	4	2	16x30	.435	108	112
16	2	2	26x30	.405	86	94
16	3	2	26x30	.427	104	110
16	4	2	26x30	.485	138	144
14	2	3	41x30	.530	145	158
14	3	3	41x30	.560	180	184
14	4	3	41x30	.605	208	224
12	2	3	65x30	.605	194	204
12	3	3	65x30	.635	230	244
12	4	3	65x30	.665	266	282
10	2	3	104x30	.640	225	244
10	3	3	104x30	.690	290	310
10	4	3	104x30	.745	354	364

Packaging: Sizes 18/2, 18/3, 16/2, 16/3—250' spool; balance of sizes, 250' coil.

TYPES SP AND SPT PARALLEL PORTABLE CORDS

Copper Conductor — 300 Volts



Two and three conductor parallel cord with mid-rip for easy splitting and stripping. Suitable for use on household items such as fans, clocks, lamps, radios, etc., that are not subject to hard usage. Available in various colors.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Strand-ing	O.D. In.	Net Wt. Lbs. M Ft.
Type SP—Rubber Insulation					
18-SP1	2	2	41x34	.115x.215	26
18-SP2	2	3	41x34	.150x.280	36
16-SP2	2	3	65x34	.155x.295	43
Type SPT—Plastic Insulation					
18-SPT1	2	2	41x34	.110x.200	24
18-SPT2	2	3	41x34	.147x.270	24
16-SPT2	2	3	65x34	.157x.293	41
14-SPT3	2	5	41x30	.230x.418	76
18-SPT1	3	2	41x34	.110x.300	40
16-SPT2	3	3	65x34	.157x.430	62
14-SPT3	3	5	41x30	.228x.512	100
14-SPT2*	3	4	41x30	.205x.475	90
12-SPT2*	3	5	65x30	.255x.575	117

*Not UL listed.

Packaging: 250' spool.

These data are approximate and subject to normal manufacturing tolerances.

TYPE HSJ HEATER CORD

Copper Conductor — 300 Volts



Two and three conductor flexible wire, cotton wrapped, rubber insulation, asbestos roving, twisted, soft braid and rubber jacket overall. Suitable for use on hair dryers, vaporizers, soldering irons, glue and solder pots, etc.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Strand-ing	O.D. In.	Net Wt. Lbs. M Ft.
3000 Cycle					
18	2	1	41x34	.315	49
18	3	1	41x34	.340	63
16	2	1	65x34	.340	60
16	3	1	65x34	.365	77
14	2	2	104x34	.420	82
14	3	2	104x34	.445	113

Packaging: 250' coil.

TYPE HPN PARALLEL HEATER CORD

Copper Conductor — 300 Volts



Two conductor flexible wire with Neoprene insulation and jacket, mid-rip for easy splitting and stripping. Suitable for all heater cord uses including heavy duty applications such as soldering irons, paint removers, industrial heating pots, etc.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Strand-ing	O.D. In.	Net Wt. Lbs. M Ft.
3000 Cycle					
18	2	3	41x34	.150x.278	36
16	2	3	65x34	.155x.300	43

Packaging: 250' spool.

TYPE HPD HEATER CORD

Copper Conductor — 300 Volts



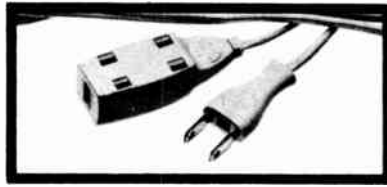
Two and three conductor flexible wire, cotton wrapped, rubber insulation, asbestos covering, twisted, cotton braid overall. Suitable for use on household appliances such as flat irons, percolators, toasters, heaters, etc.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Strand-ing	O.D. In.	Net Wt. Lbs. M Ft.
3000 Cycle					
18	2	1	41x34	.280	32
18	3	1	41x34	.300	44
16	2	1	65x34	.310	40
16	3	1	65x34	.335	57
14	2	2	104x34	.370	60
14	3	2	104x34	.390	84
12	2	2	165x34	.400	78
12	3	2	165x34	.420	104

Packaging: Sizes 18 through 14 AWG, 2 conductor, 250' spool; 14 AWG, 3 conductor and 12 AWG, 250' coil.

Price on Application

CUBE TAP EXTENSION CORDS



All vinyl construction with matching molded-on plug and connector, 2-wire, three outlet. Brown and white are standard colors.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18-SPT1	100	22	15	18-SPT1	50	21
9	18-SPT1	100	29	20	18-SPT1	50	27
12	18-SPT1	100	36	...	...	...	...

AIR CONDITIONER EXTENSION CORDS



Parallel Blade



Tandem Blade

Gray all vinyl construction with matching U-ground molded-on plug and connector, flat parallel. 3-conductor, single outlet, 15A-125V. Parallel or tandem.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
3	14/3	36	17	12	14/3	12	16
6	14/3	24	16	15	14/3	12	18
9	14/3	24	23	...	...	...	...

FLAT YELLOW EXTENSION CORDS



Yellow all vinyl construction with matching molded-on plug and connector, flat parallel. 2-conductor, single outlet, 15A-125V.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
25	16/2	24	30	100	14/2	6	43
50	16/2	12	30	25	12/2	12	40
100	16/2	6	30	50	12/2	6	34
25	14/2	24	43	100	12/2	3	34
50	14/2	12	43	...	...	...	...

These data are approximate and subject to normal manufacturing tolerances.

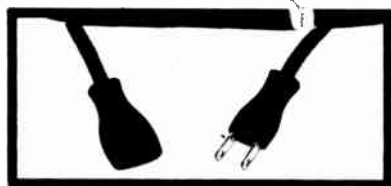
FLAT YELLOW EXTENSION CORDS



Yellow all vinyl construction with matching molded-on plug and connector, flat parallel. 3-conductor, single outlet, 15A-125V.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
25	16/3	24	40	100	14/3	6	58
50	16/3	12	40	25	12/3	6	36
100	16/3	6	40	50	12/3	6	56
25	14/3	12	34	100	12/3	3	56
50	14/3	6	34	...	...	...	...

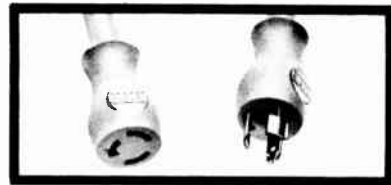
HEAVY DUTY EXTENSION CORDS



Rubber or vinyl jacketed construction with matching molded-on plug and connector. 2-conductor, single outlet.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
Black Rubber Jacketed							
12	18/2-SJ	24	18	100	16/2-SJ	6	44
25	18/2-SJ	24	44	25	14/2-S	6	28
50	18/2-SJ	6	18	50	14/2-S	6	50
12	16/2-SJ	24	21	100	14/2-S	4	66
25	16/2-SJ	24	50	50	12/2-S	3	32
50	16/2-SJ	6	23	100	12/2-S	2	40
Red Vinyl Jacketed							
12	18/2-SJT	24	17	25	16/2-SJT	24	50
25	18/2-SJT	24	44	50	16/2-SJT	6	22
50	18/2-SJT	6	18	100	16/2-SJT	6	44
12	16/2-SJT	24	18	...	...	...	...

LOCKING HEAVY DUTY EXTENSION CORDS



Rubber jacketed construction with interlocking plug and connector. 3-conductor, single outlet, 20A-250V—10A-600V.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
50	14/3-S	3	31	100	12/3-S	2	52
100	14/3-S	2	38	100	10/3-S	1	26
50	12/3-S	3	40	...	...	...	...

Price on Application

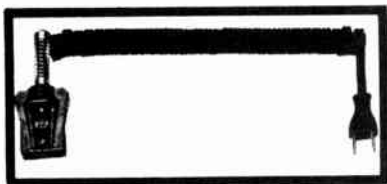
HEAVY DUTY EXTENSION CORDS



Rubber or vinyl jacketed construction with matching molded-on plug and connector. 3-conductor, single outlet

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
Black Rubber Jacketed							
12	18/3-SJ	24	19	100	16/3-SJ	6	50
25	18/3-SJ	12	23	25	14/3-S	6	30
50	18/3-SJ	6	20	50	14/3-S	6	60
12	16/3-SJ	24	24	100	14/3-S	4	75
25	16/3-SJ	12	28	50	12/3-S	2	26
50	16/3-SJ	6	25	100	12/3-S	1	26
Red Vinyl Jacketed							
12	18/3-SJT	24	19	25	16/3-SJT	12	28
25	18/3-SJT	12	23	50	16/3-SJT	6	25
50	18/3-SJT	6	20	100	16/3-SJT	6	50
12	16/3-SJT	24	24	...	...	...	...

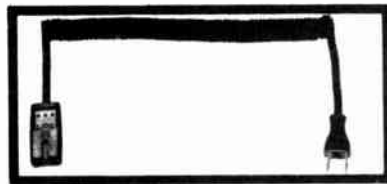
APPLIANCE CORD SET



Black Neoprene flat parallel wire with molded-on plug and standard connector. 2-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18-HPN	100	33

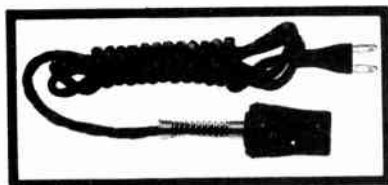
MINIATURE APPLIANCE CORD SETS



Black Neoprene flat parallel wire with molded-on plug and miniature appliance connector for coffee-makers, etc. 2-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18-HPN	100	33
3	18-HPN	50	11

ELECTRIC IRON REPLACEMENT CORD

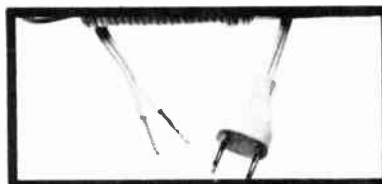


Black HPD heater cord with molded-on plug and standard connector. 2-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18-HPD	100	32

These data are approximate and subject to normal manufacturing tolerances.

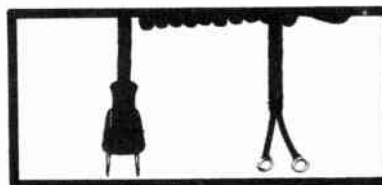
SMALL APPLIANCE REPLACEMENT CORDS



Vinyl lamp cord with molded-on plug, twisted and tinned leads. 2-wire. Brown and ivory colors.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18/2-SPT1	100	16
9	18/2-SPT1	100	23

ELECTRIC IRON REPLACEMENT CORDS



Black HPD heater cord with molded-on plug and #8 eyelets. 2-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	18/2-HPD	100	23	7	16/2-HPD	100	33
7	16/2-HPD	100	33	7	16/2-HPD	100	33

JACKETED REPLACEMENT CORDS



Black rubber jacketed wire with molded-on plug, twisted and tinned. For appliances and power tools. 3-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
6	16/3-SJ	48	31	12	16/3-SJ	48	46
9	16/3-SJ	48	40	...	...	...	...

ELECTRIC DRYER CORDS



Heavy duty jacketed wire with molded-on plug. Heavy duty terminals crimped and swaged to conductors. 3-wire, 25A-250V.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
Gray Flat Parallel Plastic Jacketed							
36	3-#10	12	18	60	3-#10	6	13
48	3-#10	12	21	72	3-#10	6	15
Gray Parallel Rubber Jacketed							
36	3-#10	12	18	72	3-#10	6	15
48	3-#10	12	21	120	3-#10	6	20
60	3-#10	6	13	...	...	...	...
Black Round Rubber Jacketed							
36	3-#10	12	21	72	3-#10	6	32
54	3-#10	12	27	...	...	...	...

Price on Application

ELECTRIC RANGE CORDS

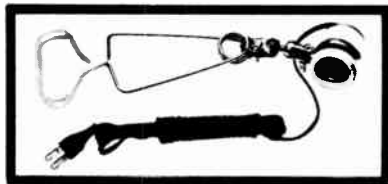


Heavy duty jacketed wire with molded-on plug. Heavy duty terminals crimped and swaged to conductors. 3-wire.

Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.	Lgth. Ft.	Wire Size	Car. Qty.	Wt. Lbs.
Gray Flat Parallel Plastic Jacketed—45A-250V							
36	2-#6, 1-#8	12	26	60	2-#6, 1-#8	6	19
48	2-#6, 1-#8	12	31	72	2-#6, 1-#8	6	24
54	2-#6, 1-#8	12	34				
Gray Flat Parallel Plastic Jacketed—35A-250V							
36	2-#8, 1-#10	12	21	60	2-#8, 1-#10	6	15
48	2-#8, 1-#10	12	25	72	2-#8, 1-#10	6	17
Gray Flat Parallel Rubber Jacketed—45A-250V							
36	2-#6, 1-#8	12	26	72	2-#6, 1-#8	6	24
48	2-#6, 1-#8	12	31	120	2-#6, 1-#8	6	30
60	2-#6, 1-#8	6	19				
Gray Flat Parallel Rubber Jacketed—35A-250V							
36	2-#8, 1-#10	12	21	60	2-#8, 1-#10	6	15
48	2-#8, 1-#10	12	25	72	2-#8, 1-#10	6	17
Black Round Rubber Jacketed—45A-250V							
36	2-#6, 1-#8	12	26	72	2-#6, 1-#8	6	19
54	2-#6, 1-#8	12	34				
Black Round Rubber Jacketed—35A-250V							
36	2-#8, 1-#10	12	23	72	2-#8, 1-#10	6	17
54	2-#8, 1-#10	12	27				

ITT LAMP HOLDERS

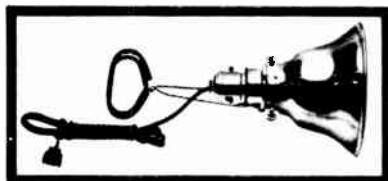
PORTABLE CLAMP-ON LAMP HOLDER



Brown vinyl lamp cord with molded-on plug. Has a porcelain socket for use with reflector type heat lamps. 2-wire.

Cat. No.	Lgth. Ft.	Wire Type	Car. Qty.	Wt. Lbs.
J-2416	6	18/2-SPT1	24	17

PORTABLE CLAMP-ON LAMP HOLDERS



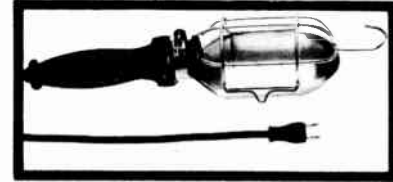
Brown vinyl lamp cord with molded-on plug. Has an aluminum reflector for utility lighting. 2-wire.

Cat. No.	Lgth. Ft.	Wire Type	Car. Qty.	Wt. Lbs.
J-2426	6	18/2-SPT1	12	30
J-2436	20	18/2-SPT1	12	36

These data are approximate and subject to normal manufacturing tolerances.

ITT TROUBLE LIGHTS

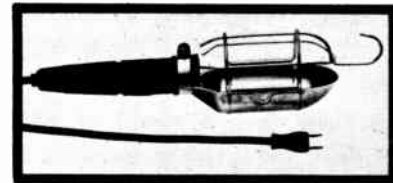
RUBBER JACKETED TROUBLE LIGHTS



Black rubber jacketed wire with molded-on plug. Rubber Seal-Tite handle, rubber-encased push-thru switch. Swing-open heavy guard. 2-wire.

Cat. No.	Lgth. Ft.	Wire Type	Car. Qty.	Wt. Lbs.
J-3102	25	18/2-SJ	12	28
J-3103	50	18/2-SJ	6	22

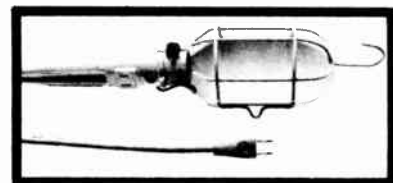
PLASTIC AND RUBBER JACKETED TROUBLE LIGHTS



Black plastic or rubber jacketed wire with molded-on plug and plastic handle. 2-wire outlet on both sides, push-thru switch. Heavy duty, swing-open guard with hook.

Cat. No.	Lgth. Ft.	Wire Type	Car. Qty.	Wt. Lbs.
Plastic Jacketed				
J-3204	25	20/2	12	26
J-3205	50	20/2	6	20
Rubber Jacketed				
J-3206	25	18/2-SJ	12	28
J-3207	50	18/2-SJ	6	23

YELLOW JACKETED TROUBLE LIGHTS



Yellow jacketed wire with molded-on plug, resists oil, acid and grease; withstands hard use and abuse. Yellow plastic handle with push-thru switch. Heavy duty, swing-open guard with hook finished in yellow enamel.

Cat. No.	Lgth. Ft.	Wire Type	Car. Qty.	Wt. Lbs.
2-Conductor With 2-Wire Outlet Both Sides				
J-3136	25	18/2-SJO	12	28
J-3137	50	18/2-SJO	6	23
J-3146	25	16/2-SJO	12	30
J-3147	50	16/2-SJO	6	25
3-Conductor With 3-Wire U-Ground Outlet on One Side and 2-Wire Outlet on Other Side				
J-3260	25	18/3-SJO	12	30
J-3261	50	18/3-SJO	6	25
J-3270	25	16/3-SJO	12	36
J-3271	50	16/3-SJO	6	31

Price on Application

RETRACTILE ELECTRICAL POWER AND COMMUNICATION CORDS



Neoprene jacketed cords of high quality that are permanently coiled into spring-like shape to provide for extension and retraction. Eliminates trailing wires, snags, tangles and trip-ups.

COPPER COMMUNICATION CORDS

Tinsel Conductor—48" retracted with straight ends of 1½" approx. and approx. 25' extended. Not listed by U.L.

No. Conductors	Cord O.D. In.	Coil O.D. In.	Maximum Working Voltage	Rating Amps.	Wt. Lbs. Cord
3	.206	13/16	100	1	.6
4	.225	13/16	100	1	.8
5	.258	1	100	1	1.0

Stranded Conductor—48" retracted; approx. 20' extended. Conductor: 23 AWG (21x36 strands). Not listed by U.L.

No. Conductors	Cord O.D. In.	Coil O.D. In.	Maximum Working Voltage	Rating Amps.	Wt. Lbs. Cord
2	.215	3/4	120	1	.7
3	.220	13/16	120	1	.8
4	.250	15/16	120	1	1.1
5	.285	1 1/16	120	1	1.5
6	.305	1 1/8	120	1	1.7
7	.320	1 1/4	120	1	1.9
37	.680	2 7/16	120	1	8.7
10*	.380	1 1/16	120	1	2.7

*Rubber jacket.

Stranded Shielded Conductor—48" retracted; approx. 20' extended. Conductor: 23 AWG (21x36 strands) or 24 AWG (41x40 strands). Not listed by U.L.

No. Conductors	Shielded Cond. No. and Size	Unshielded Cond. No. and Size	Cord O.D. In.	Coil O.D. In.	Max. Work. Volt.	Rating Amps.	Wt. Lbs. Cord
1	1x24	....	.160	5/8	75	1/2	.6
1	1x23	....	.200	3/4	1000	1	.7
2	1x24	1x23	.240	7/8	†	††	.8
3	1x24	2x23	.240	7/8	†	††	1.0
4	2x24	2x23	.270	1	†	††	1.2
Tinsel Shield							
4	2x24	2x23	.270	1	....	....	1.2
19*	19x23	....	.540	2	120	1	4.7

†23 AWG—120 volts, 24 AWG—75 volts.

††23 AWG—1 amp., 24 AWG—½ amp.

*Rubber jacket.

COPPER TEST LEADS

24" retracted; approx. 10' extended. Conductor: 20 AWG (41x36 strands). Not listed by U.L.

No. Conductors	Cord O.D. In.	Coil O.D. In.	Maximum Working Voltage	Rating Amps.	Wt. Lbs. Cord
1*	.165	3/4	1000	4	.2
1*	.165	3/4	1000	4	.2

*Rubber jacket.

These data are approximate and subject to normal manufacturing tolerances.

RETRACTILE ELECTRICAL POWER AND COMMUNICATION CORDS (continued)

COPPER MINIATURE CORDS

24" retracted: approx. 10' extended; 6" straight ends. Conductor: 28 AWG (19x40 strands). Not listed by U.L.

No. Conductors	Cord O.D. In.	Coil O.D. In.	Jacket Material	Max. Work. Volt.	Rating Amps.	Wt. Lbs. Cord
2	.135	1/2	Plastic	100	1/2	.2
3*	...	...	...	...	...	...
4	.150	1/2	Plastic	100	1/2	.3

*Use 4 conductors and cut 1 leg dead for 3 conductor use.

COPPER PREPARED POWER SUPPLY CORDSETS



One end trimmed with molded male plug, with the other end having the conductors exposed and stripped for easy termination.

No. Conductors	Size AWG	UL Type	Length		Wt. Lbs. Cord
			Retracted Inches	Extended Feet	
2	18	SVO	18	7 1/2	.5
3	18	SVO	18	7 1/2	.6
2	18	SJO	18	7 1/2	.8
3	18	SJO	18	7 1/2	1.0
2	16	SJO	18	7 1/2	.9
3	16	SJO	18	7 1/2	1.4

COPPER POWER CORDS

48" retracted; 20' extended. Can also be manufactured according to specifications.

No. Conductors	UL Type	Cord O.D. In.	Coil O.D. In.	Max. Work. Volt.	Rating Amps.	Wt. Lbs. Cord
18 AWG (41x34 Strands)						
2	SVO	.260	7/8	300	7	1.2
3	SVO	.275	1	300	7	1.5
2	SJO	.320	1 1/16	300	7	1.8
3	SJO	.350	1 3/8	300	7	2.5
3	SO	.405	1 5/8	600	7	3.3
4	SJO	.385	1 1/16	300	5.6	3.0
4	SO	.435	1 5/8	600	5.6	3.8
5	....	.440	1 5/8	300	5.6	3.9
7	....	.500	1 7/8	300	5.6	5.2
16 AWG (65x34 Strands)						
2	SJO	.360	1 3/8	300	10	2.2
3	SJO	.390	1 1/16	300	10	2.7
4	SJO	.425	1 1/2	300	8	3.5
3	SO	.470	1 5/16	600	10	4.5
4	SO	.500	1 7/8	600	8	5.2
5	SO	.550	2 1/8	600	...	6.5
6	....	.545	2	600	8	6.1
7*	....	.600	2 1/4	600	...	7.9
14 AWG (41x30 Strands)						
2	SO	.540	2 1/8	600	15	6.0
3	SO	.560	2 1/8	600	15	6.7
4	SO	.605	2 1/4	600	12	7.5
12 AWG (65x30 Strands)						
2	SO	.605	2 1/4	600	20	6.7
3	SO	.635	2 3/8	600	20	7.9
4	SO	.678	2 3/8	600	16	9.2
6†	....	.610	2 1/4	600	...	7.7

*6/16 AWG (65x34 strands) and 1/14 AWG (41x30 strands).

†2/12 AWG (65x30 strands) and 4/18 AWG (41x34 strands).

Price on Application

TYPE AFPD TWISTED ASBESTOS HEAT RESISTING FIXTURE WIRE

Copper Conductor — 300 Volts



Two conductor wire covered with felted asbestos, saturated with moisture-resisting, flame-retarding compound, twisted, cotton braid overall. Suitable for use in wiring hollow fixtures where space is limited, or chain fixtures with exposed wiring in dry places. Maximum operating temperature 150°C.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
18	2	2	16x30	.250	24
16	2	2	26x30	.280	34
14	2	2	41x30	.310	46

Packaging: 250' spool.

TYPE AFPO PARALLEL ASBESTOS HEAT RESISTING FIXTURE WIRE

Copper Conductor — 300 Volts



Two conductor wire covered with felted asbestos, saturated with moisture-resisting, flame retarding compound, parallel, cotton braid overall. Suitable for use in wiring hollow fixtures where space is limited, or chain fixtures with exposed wiring in dry places. Maximum operating temperature 150°C.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
18	2	2	16x30	.135x.240	24
16	2	2	26x30	.145x.270	34
14	2	2	41x30	.165x.305	46

Packaging: 250' spool.

TYPE CBO TWISTED BREWERY CORD

Copper Conductor — 300 & 600 Volts



Two conductor cord with Neoprene insulation and ribbed for polarity. Suitable for portable or drop use in damp locations and temporary lighting. Not listed by UL.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
300 Volts					
18	2	2	16x30	.235	22
16	2	2	26x30	.255	30
600 Volts					
14	2	3	41x30	.345	53
12	2	3	65x30	.385	75
10	2	3	104x30	.445	103

Packaging: 250' coil.

These data are approximate and subject to normal manufacturing tolerances.

TYPE C TWISTED LAMP CORD

Copper Conductor — 300 & 600 Volts



Two conductor cord with rubber insulation and cotton braid. Suitable for use in dry places on drop lights, fixtures and appliances.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
300 Volts					
18	2	2	16x30	.300	31
16	2	2	26x30	.320	40
600 Volts					
14	2	3	41x30	.400	60
12	2	3	65x30	.460	84

Packaging: Sizes 18 and 16 AWG, 250' spool; 14 and 12 AWG, 250' coil.

TYPE PO PARALLEL LAMP CORD

Copper Conductor — 300 & 600 Volts



Two conductor cord with rubber insulation, cotton braid, parallel with rayon braid overall. Suitable for use in dry places on clocks, lamps, radios and similar appliances not subject to hard usage.

Size AWG	No. Conductors	Insul. Thick. 64th In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
300 Volts					
18-PO1	2	1	16x30	.120x.220	23
18-PO2	2	2	16x30	.155x.280	30
16-PO2	2	2	26x30	.165x.315	39
600 Volts					
14-PO	2	3	41x30	.200x.395	59

Packaging: 18 through 16 AWG, 250' spool; 14 AWG, 250' coil.

SHOT FIRING OR BLASTING CABLE

Copper Conductor — 300 Volts



Two conductor wire with red and white color-coded insulation and red rubber jacket. Suitable as leads for blasting purposes.

Size AWG	No. Conductors	Insul. Thick. In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
18	2	.025	16x30	.300	120

Packaging: 125' coil.

Price on Application

RUBBER INSULATED TRAILER CABLE

Copper Conductor — 300 Volts



Multi-conductor cable with color-coded rubber insulation and rubber jacket overall. Suitable for wiring and lighting of commercial motor vehicles. Fit all standard connectors.

Size AWG	No. Conductors	Insul. Thick. In.	Stranding	O.D. In.	Net Wt. Lbs. M Ft.
14	2	2/64	41x30	.360	84
14	4	2/64	41x30	.455	160
14	6	2/64	41x30	.575	220
12/7	{1-#10 #12- 6-#12	{#10- .021 #12- 2/64	{#10- 104x30 #12- 65x30	.685	410

Packaging: 250' coil.

RUBBER AND PLASTIC INSULATED TRAILER CABLE

Copper Conductor — 600 Volts



Rubber



Plastic

Multi-conductor cable with rubber insulation and rubber or Neoprene jacket, or plastic insulation and jacket. Suitable for use with mobile homes as the attachment from source of supply to the distribution panel within the trailer.

Size AWG	No. Conductors	O.D. In.	Net Wt. Lbs. M Ft.
Rubber Insulation—Rubber or Neoprene Jacket			
6/3*	2-#6, 1-#8	.955	575
8/4*	3-#8, 1-#10	.915	540
6/4*	3-#6, 1-#8	1.080	810
Plastic Insulation—Plastic Jacket			
8	4ST	.950	560

*UL listed as Type S and SO cords for use in the trailer industry.

Packaging: 250' coil.

WELDER POWER SUPPLY CABLE

Copper Conductor — 600 Volts



Two, three and four conductor cable with rubber insulation and rubber jacket. Suitable for use as primary circuit connection from power source to welding equipment and for portable usage.

Size AWG	No. Conductors	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
8	2	105	4	.73	324
6	2	105	4	.87	466
8	3	105	4	.77	389
6	3	105	4	.92	560
8	4	105	4	.88	507
6	4	105	4	1.00	696

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

ARC WELDING CABLE

Copper Conductor — 600 Volts



Single conductor extra-flexible stranded cable with either rubber or Neoprene jacket. Suitable for use as arc welder electrode cable. Maximum operating temperature 60°C.

Size AWG	No. Strands	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.
Rubber Jacket				
6	665	.37	75	130
4	1050	.43	100	220
3	1344	.46	150	235
2	1659	.52	200	291
1	2100	.57	250	369
1/0	2625	.63	300	436
2/0	3332	.69	375	527
3/0	4263	.76	450	635
4/0	5376	.83	550	784
Neoprene Jacket				
4	1050	.43	100	235
2	1659	.52	200	309
1	2100	.57	250	392
1/0	2625	.63	300	461
2/0	3332	.69	375	555
3/0	4263	.76	450	667
4/0	5376	.83	550	821

Packaging: 1000' reel.

LEAD CURED WELDING CABLE

Copper Conductor — 600 Volts



Single conductor extra-flexible stranded cable with lead cured Neoprene jacket. Greater flexibility means less "drag" to fatigue the operator. Resistant to destructive forces encountered in the vicinity of welding operations—notably heat, ultra-violet, ozone, oil, acids, tearing, chipping and crushing.

Size AWG or MCM	No. Strands #84 Wire	O.D. In.	Rating Amps.	Net Wt. Lbs. M Ft.
8	420	.370	60	100
6	665	.380	90	130
5	836	.436	95	145
4	1064	.430	120	200
3	1323	.500	180	230
2	1666	.550	240	290
1	2107	.580	300	360
1/0	2646	.640	360	430
2/0	3332	.670	450	540
3/0	4963	.770	540	670
4/0	5320	.860	640	830
250	6384	.950	710	960
300	7581	1.010	780	1150
350	8806	1.080	860	1310
400	10101	1.150	940	1530
450	11396	1.200	1020	1700
500	12691	1.250	1090	1900
600	14945	1.370	1220	2260
700	17507	1.460	1340	2600
750	18788	1.490	1400	2770
800	20069	1.530	1450	2950
900	22631	1.610	1540	3290
1000	25193	1.680	1630	3640

Packaging: 1000' reel and longer.

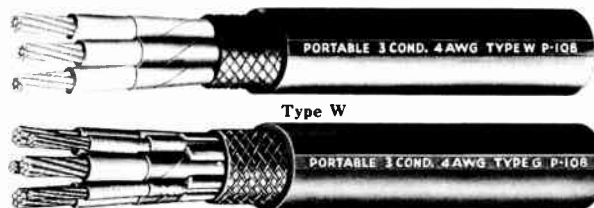
Price on Application

LEAD CURED TYPES W AND G PORTABLE CABLE

Copper Conductor — 600 Volts

Multi-conductor insulated cable with rubber and lead cured Neoprene jacket which is resistant to abrasion, impact, oils, greases, acids, gasoline, flame, heat, cold, sunlight and ozone. Designed to give maximum service under severe operating conditions. Maximum operating temperature 75°C.

Size AWG or MCM	No. Strands	Type W		Type G		
		Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Size AWG Grd. Wire	Net Wt. Lbs. M Ft.
Two Conductor—Round						
8	49 or 133	4	.81	365	2-#11	400
6	49 or 133	4	.93	530	2-#10	595
4	49 or 133	4	1.08	765	2-#8	870
3	49 or 133	4	1.17	860	2-#7	990
2	49 or 133	4	1.27	970	2-#6	1150
1	133 or 259	5	1.44	1300	2-#5	1535
1/0	133 or 259	5	1.52	1430	2-#4	1700
2/0	133 or 259	5	1.65	1735	2-#3	2050
3/0	259 or 1045	5	1.77	2045	2-#2	2600
4/0	259 or 1323	5	1.92	2650	2-#1	2950
250	259 or 427	6	.216	2920	2-1/0	3460
Three Conductor—Round						
8	49 or 133	4	.91	480	3-#13	520
6	49 or 133	4	1.01	710	3-#12	765
4	49 or 133	4	1.17	1050	3-#10	1150
3	49 or 133	4	1.24	1150	3-#9	1240
2	49 or 133	4	1.34	1275	3-#8	1430
1	133 or 259	5	1.51	1675	3-#7	1920
1/0	133 or 259	5	1.65	1950	3-#6	2210
2/0	133 or 259	5	1.75	2290	3-#5	2580
3/0	259 or 1045	5	1.89	2980	3-#4	3280
4/0	259 or 1323	5	2.04	3730	3-#2	3810
250	259 or 427	6	2.39	3985	3-#2	4610



Size AWG or MCM	No. Strands	Type W		Type G		
		Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.	Size AWG Grd. Wire	Net Wt. Lbs. M Ft.
Four Conductor—Round						
8	49 or 133	4	.99	630	4-#14	675
6	49 or 133	4	1.10	870	4-#13	940
4	49 or 133	4	1.27	1295	4-#11	1400
3	49 or 133	4	1.34	1410	4-#10	1610
2	49 or 133	4	1.48	1680	4-#9	1825
1	133 or 259	5	1.68	2120	4-#8	2370
1/0	133 or 259	5	1.79	2406	4-#7	2690
2/0	133 or 259	5	1.93	3300	4-#6	3690
3/0	259 or 1045	5	2.07	4010	4-#5	4270
4/0	259 or 1323	5	2.26	4900	4-#4	5240
Type W—Five and Six Conductor—Round						
8	49 or 133	4	1.08	854	1.18	1030
6	49 or 133	4	1.20	1120	1.31	1290
4	49 or 133	4	1.42	1540	1.52	1780
3	49 or 133	4	1.50	1740	1.61	2040
2	49 or 133	4	1.62	2110	1.75	2440
1	133 or 259	5	1.88	3010	2.05	3590
1/0	133 or 259	5	1.96	3350	2.13	3890

Packaging: 1000' and longer.

LEAD CURED TYPE W MINING CABLE

(Approved by U.S. Bureau of Mines and Pennsylvania Department of Mines)

Copper Conductor — 600 Volts



Single conductor flexible or extra-flexible stranded cable insulated with rubber and an overall jacket of lead cured Neoprene. Recommended for interior wiring of motors, mine locomotives and wherever a flexible cable is needed. Maximum operating temperature 75°C.

Size AWG or MCM	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
8	49 or 133	.44	130
6	49 or 133	.51	190
4	49 or 133	.57	260
3	49 or 133	.63	320
2	133 or 259	.66	390
1	133 or 259	.74	460
1/0	133 or 259	.77	550
2/0	133 or 259	.82	650
3/0	259 or 427	.87	800
4/0	259 or 427	.93	950
250	259 or 427	1.03	1380
300	259 or 427	1.09	1570
350	259 or 427	1.15	1750
400	259 or 427	1.20	2040
450	259 or 427	1.26	2220
500	259 or 427	1.31	2400
550	259 or 427	1.42	2600
600	259 or 427	1.46	2810
650	259 or 427	1.50	2975
700	427 or 703	1.54	3285
750	427 or 703	1.58	3510
800	427 or 703	1.62	3750
900	427 or 1159	1.69	4080
1000	427 or 1159	1.76	4450

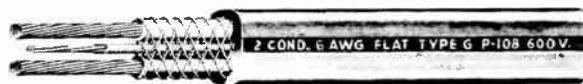
Packaging: 1000' and longer.

These data are approximate and subject to normal manufacturing tolerances.

LEAD CURED TYPES W AND G MINING CABLE

(Approved by U.S. Bureau of Mines and Pennsylvania Department of Mines)

Copper Conductor — 600 Volts



Twin parallel conductor insulated cable with rubber and lead cured Neoprene jacket which is resistant to abrasion, crushing, sunlight, aging, heat, cold, ozone, oils, acids and flame. Suitable for use on take-up reels, used in connection with portable equipment in mines, such as coal cutters, drills, coal loaders and as battery leads. Maximum operating temperature 75°C.

Size AWG	No. Strands	Type W		Type G	
		O.D. In.	Net Wt. Lbs. M Ft.	O.D. In.	Net Wt. Lbs. M Ft.
8	49 or 133	.51x .84	410	.53x .97	460
6	49 or 133	.56x .93	620	.56x1.02	670
4	49 or 133	.61x1.05	780	.61x1.15	860
3	49 or 133	.68x1.14	850	.68x1.26	910
2	49 or 133	.73x1.24	996	.73x1.35	1130
1	133 or 259	.81x1.40	1300	.81x1.55	1490
1/0	133 or 259	.93x1.51	1440	.93x1.67	1690
2/0	133 or 259	.99x1.63	1740	.99x1.85	2120
3/0	259	1.03x1.77	2100	1.03x2.00	2470
4/0	259	1.10x1.89	2430	1.10x2.09	2950

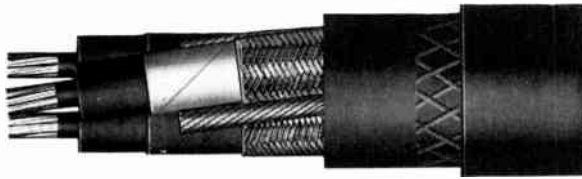
Packaging: 1000' and longer.

Note: Can also be supplied as 3-conductor parallel in Type W and G.

Price on Application

LEAD CURED TYPE SH-D PORTABLE POWER CABLE

Copper Conductor — 5000 & 8000 Volts



Three conductor flexible stranded cable insulated with Butyl rubber and Neoprene inner and outer jacket. Suitable for use on shovels and similar equipment where flexibility and maximum protection to cable and personnel is desired. Maximum operating temperature: 90°C for 5000 volt and 85°C for 8000 volt.

Size AWG	No. Strands	Thickness 64th In.		O.D. In.	Size Grd. Wire	Net Wt. Lbs. M Ft.
		Insul.	Jacket			
5000 Volts						
6	49	11	12	1.84	10	1947
4	133	11	13	1.98	8	2312
2	133	11	13	2.16	8	2987
1/0	133	11	14	2.39	6	3979
2/0	133	11	14	2.51	5	4538
3/0	259	11	15	2.64	4	5285
4/0	259	11	15	2.81	3	6032
8000 Volts						
4	133	14	13	2.11	8	3414
2	133	14	14	2.30	8	3866
1	133	14	14	2.38	7	4192
1/0	133	14	14	2.48	6	4640
2/0	133	14	15	2.63	5	5088
3/0	259	14	15	2.77	4	5936
4/0	259	14	16	2.94	3	6515

Packaging: 1000' and longer.

TYPE AWM-TYPE TEW(CSA) APPLIANCE WIRE

Copper Conductor — 600 Volts



Single conductor Polyvinyl Chloride insulated wire. Meets requirement of NMTBA. Suitable for use on appliances where temperatures do not exceed 60°C in oil and 105°C where exposed to air.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
22	1	2	.090	7
22	7x30	2	.095	7
20	1	2	.097	9
20	10x30	2	.105	9
18	1	2	.105	11
18	16x30	2	.115	12
16	1	2	.115	15
16	26x30	2	.125	15
14	1	2	.130	21
14	19	2	.140	22
12	1	2	.147	28
12	19	2	.160	29
10	1	2	.168	42
10	19	2	.185	44
8	1	3	.225	70
8	19	3	.247	72

Check your Graybar office for colors available.

Packaging: 500' spool.

These data are approximate and subject to normal manufacturing tolerances.

MACHINE TOOL WIRE

Copper Conductor — 600 Volts



Single conductor Polyvinyl Chloride insulated wire rated 90°C for dry locations and 60°C where exposed to moisture, oil or coolants. MTW-THW is rated 75°C where exposed to moisture.

Size AWG or MCM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
Machine and Tool Appliance Wire 90°C				
18*	19	2	.11	10
16*	19	2	.12	14
Machine Tool Wire 90°C and Type TW 60°C				
14†	19	2	.14	20
12†	19	2	.16	28
10†	19	2	.18	42
8†	19	3	.25	71
Machine Tool Wire 90°C and Type THW 75°C				
14	1	3	.16	22
14	7	3	.17	24
14	19	3	.17	24
12	1	3	.18	31
12	7	3	.19	33
12	19	3	.19	33
10	1	3	.20	45
10	7	3	.21	48
10	19	3	.21	48
8	1	4	.26	73
8	7	4	.28	77
8	19	4	.28	77
6	7	4	.31	112
6	19	4	.32	112
4	7	4	.36	167
4	19	4	.37	167
2	7	4	.42	252
2	19	4	.43	252
1	19	5	.50	325
1/0	19	5	.54	397
2/0	19	5	.58	491
3/0	19	5	.63	608
4/0	19	5	.69	750
250	37	6	.77	895
300	37	6	.83	1065
350	37	6	.88	1230
400	37	6	.93	1395
500	37	6	1.01	1720
600	61	7	1.12	2080
700	61	7	1.19	2406
750	61	7	1.23	2570
800	61	7	1.26	2733
900	61	7	1.32	3059
1000	61	7	1.38	3375

Standard colors available: 18 through 10 AWG—black, white, red, blue, green, yellow, orange, brown; 8 through 2 AWG—black, white, red; 1 and larger, black.

Packaging: *1000' spool; †500' spool; 14 through 1 AWG, 500' coil; 1/0 and larger, 500' and 1000' reels.

TYPES TF AND TFF FIXTURE WIRE

Copper Conductor — 600 Volts



Single conductor wire with thermoplastic insulation suitable for use on lighting fixtures and other applications where temperatures do not exceed 60°C.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
Solid Conductor				
18	1	2	.105	13
16	1	2	.115	15
Stranded Conductor				
18	16x30	2	.112	12
16	26x30	2	.120	14

Packaging: 500' spool.

Price on Application

**CROSS LINK POLYETHYLENE
MOTOR AND APPLIANCE LEAD WIRE**

Copper Conductor — 600 Volts



Single conductor cross link Polyethylene insulated wire especially suitable for use as leads for small Class B motors, transformers or coils. Can be used wherever 125°C lead wire is required. Also listed by UL as suitable for use within appliances at temperatures not exceeding 125°C.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
18	16	2	.11	11
16	26	2	.13	15
14	41	2	.14	20
12	65	2	.16	28
10	105	2	.19	43

Packaging: 500' spool.

**CROSS LINK POLYETHYLENE
SWITCHBOARD WIRE**

Copper Conductor — 600 Volts



Single conductor cross link Polyethylene insulated wire suitable for wiring of switchboards and all other types of control apparatus. Resists heat, moisture, flame, oil and corrosive vapors. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Insul. Thick. Mils	O.D. In.	Net Wt. Lbs. M Ft.
18*	7	31	.12	9
18*	16	31	.12	9
16*	7	31	.13	12
16*	26	31	.13	12
14	1	31	.14	16
14	7	31	.15	17
14	41	31	.15	17
12	1	31	.15	23
12	7	31	.16	23
12	65	31	.16	23
10	1	31	.17	34
10	7	31	.18	35
10	105	31	.19	36
8	1	47	.23	57
8	7	47	.25	58
8	133	47	.27	62
6	1	62	.30	91
6	7	62	.32	94
4	7	62	.37	169

*Not UL listed.

Packaging: Sizes 18 through 6 AWG, 500' coil; size 4 AWG, 500' reel.

TYPE A ASBESTOS APPLIANCE WIRE

Nickel Conductor — 300 Volts



Single conductor wire covered with felted asbestos, smokeless insulation coated with a heat resisting compound. Suitable for use on waffle irons, sandwich grills and other applications subject to maximum operating temperature requirements of 200°C.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
16*	65x34	2	.125	16

*Not listed by UL.

Packaging: 500' spool.

These data are approximate and subject to normal manufacturing tolerances.

**TYPES A AND AI ALL-ASBESTOS
APPLIANCE LEAD WIRE**

Copper Conductor — 300 Volts



Solid



Stranded

Single conductor of copper or nickel insulated with a wall of felted asbestos.

Type A insulation is impregnated with flame and heat resistant compound. Suitable for wiring of apparatus where severe heat conditions exist, such as hot plates, toasters, coffee-makers, etc. Maximum operating temperature 200°C.

Type AI insulation is impregnated with flame, heat and moisture resistant compound. Suitable for wiring where moderate moisture hazards exist, such as electric ranges, ovens, grills, water heaters, space heaters, dryers, etc. Maximum operating temperature 125°C.

Size AWG	No. Strands	.030 Insulation		.040 Insulation	
		O.D. In.	Net Wt. Lbs. M Ft.	O.D. In.	Net Wt. Lbs. M Ft.
Solid Conductor					
18	1	.100	10	.120	12
16	1	.111	13	.131	16
14	1	.124	18	.144	21
12	1	.141	27	.161	30
10	1	.162	39	.182	43
8	1	.188	60	.208	64
Stranded Conductor					
18	7	.106	9	.126	12
16	7	.118	14	.138	16
14	7	.133	19	.153	21
12	7	.152	28	.172	32
10	7	.176	42	.196	46
8	7	.206	62	.226	67
Flexible Stranded Conductor					
18	16	.105	10	.125	11
16	26	.119	14	.139	16
14	41	.135	19	.155	22
12	65	.155	29	.175	31
10	104	.180	43	.200	44
8	165	.211	64	.231	68

Packaging: 500' coil.

TYPE AIA APPARATUS CABLE

Copper Conductor — 600 Volts



Single conductor flexible cable insulated with felted asbestos and an overall asbestos braid. Suitable for use as power leads in high temperature applications where flexibility is required. Dry locations only (not in conduit). Maximum operating temperature 125°C.

Size AWG or MCM	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
14	41	30	45	.229	34
12	65	40	45	.269	43
10	105	40	45	.294	56
8	133	40	45	.342	79
6	133	60	45	.426	199
4	133	60	45	.477	251
2	133	60	45	.546	324
1	259	75	45	.616	475
1/0	259	75	45	.664	537
2/0	259	75	45	.715	619
3/0	259	75	45	.776	725
4/0	259	75	45	.840	881

Packaging: Sizes 14 through 6 AWG, 500' coil; 4 AWG and larger, 500' reel.

Price on Application

TYPE AA RHEOSTAT WIRE

Copper Conductor — 300 Volts



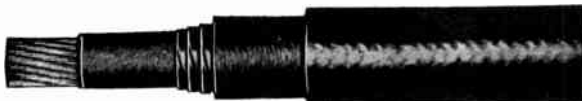
Single conductor wire insulated with felted asbestos and an overall asbestos braid. Suitable for grid jumper connections and connections from grids to faceplates, infra-red dryers, ovens, electric stove bus circuits, element leads on well type annealing furnaces and open wiring exposed to extremely high temperatures, corrosive fumes, grease, oil or fire hazard. Maximum operating temperatures: solid and stranded, 200°C; flexible stranded, 150°C.

Size AWG	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Solid Conductors—200°C					
18*	1	30	40	.180	18
16*	1	30	40	.195	22
14	1	30	40	.205	28
12	1	30	40	.225	38
10	1	30	40	.245	52
8	1	30	40	.270	69
Stranded Conductors—200°C					
18*	7	30	40	.190	18
16*	7	30	40	.200	23
14	7	30	40	.215	29
12	7	30	40	.235	44
10	7	30	40	.260	54
8	7	30	40	.290	72
Flexible Stranded Conductors—150°C					
18*	16	30	40	.185	18
16*	26	30	40	.200	23
14	41	30	40	.215	30
12	65	30	40	.235	40
10	104	30	40	.260	56
8	133	30	40	.307	75

*Not listed in NEC.
Packaging: 500' coil.

TYPE AVA FLEXIBLE MOTOR LEAD CABLE

Copper Conductor — 600 Volts



Single conductor flexible cable insulated with asbestos- varnished cambric-asbestos and covered overall with a braid of asbestos having a heat and moisture resistant finish. Maximum operating temperature 110°C.

Size AWG or MCM	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
14	41	55	40	.265	45
12	65	55	40	.285	55
10	104	55	40	.310	75
8	133	55	45	.370	100
6	133	65	45	.430	150
4	133	65	45	.490	210
3	133	65	45	.520	255
2	133	65	45	.555	305
1	259	80	45	.630	385
1/0	259	80	45	.675	470
2/0	259	80	45	.730	570
3/0	259	80	45	.790	700
4/0	259	80	45	.855	850
250	427	105	45	.955	1030
300	427	105	45	1.020	1205
350	427	105	45	1.075	1380
400	427	105	45	1.130	1555
500	427	105	45	1.225	1905
750	427	110	45	1.445	2780
1000	427	110	45	1.620	3590

Packaging: Sizes 14 through 10 AWG, 500' coil; 8 AWG and larger, 500' reel.

These data are approximate and subject to normal manufacturing tolerances.

TYPE AA MOTION PICTURE CABLE

Copper Conductor — 300 Volts



Single conductor flexible or extra-flexible cable insulated with felted asbestos and an overall asbestos braid. Suitable for use in wiring motion picture equipment and similar applications where a smokeless insulation is required to withstand extreme heat, in dry locations only.

Size AWG or MCM	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Flexible Strand—Temperature 200°C					
14	41	30	45	.225	26
12	65	30	45	.245	35
10	105	30	45	.270	46
8	133	30	45	.318	65
6	133	40	45	.382	93
4	133	40	45	.436	164
2	133	40	45	.506	251
Extra-Flexible Strand—Temperature 150°C					
18*	41	30	45	.198	19
16*	65	30	45	.211	22
14	105	30	45	.227	27
12	259	30	45	.255	35
10	413	30	45	.282	48
8	665	30	45	.318	69
6	1078	40	45	.382	112
4	1672	40	45	.435	154
2	2664	40	45	.510	228
1/0	4214	60	45	.650	369
2/0	5292	60	45	.695	457
3/0	6783	60	45	.755	560
4/0	8512	60	45	.825	689

*Not NEC or UL listed.

Packaging: Sizes 18 through 6 AWG, 500' coil; 4 AWG and larger, 500' reel.

**TYPE AF ASBESTOS
FIXTURE WIRE**

Copper Conductor — 300 Volts



Single conductor wire covered with felted asbestos, saturated with moisture resisting, flame retarding compound. Suitable for use in wiring hollow fixtures where space is limited, or chain fixtures with exposed wiring in dry places where temperatures do not exceed 150°C.

Type AF has asbestos insulation but not braid.

Type AF & Braid has asbestos insulation as well as cotton appearance braid overall.

Size AWG	No. Strands	Type AF		Type AF & Braid		
		Insul. Thick. 64th In.	Net Wt. Lbs. M Ft.	O.D. In.	Net Wt. Lbs. M Ft.	
Solid Conductor						
18	1	2	.107	12	.132	13
16	1	2	.117	17	.142	18
14	1	2	.132	22	.157	24
12	1	3	.180	35	.205	38
10	1	3	.200	55	.225	60
Stranded Conductor						
18	16x30	2	.112	12	.137	12
16	26x30	2	.125	17	.150	17
14	41x30	2	.142	23	.167	23
12	65x30	3	.192	35	.217	38
10	105x30	3	.215	55	.240	60

Packaging: Sizes 18 through 12 AWG, 500' spool; 10 AWG, 250' spool.

Price on Application

TYPE AIA RHEOSTAT WIRE AND CABLE

Copper Conductor — 600 Volts



Solid



Stranded

Single conductor wire and cable insulated with felted and impregnated asbestos and an overall covering of asbestos. Ideally suited for grid jumper connections and connections from grids to faceplates, infra-red dryers, ovens, electric stove bus circuits, element leads on well type annealing furnaces and open wiring exposed to extremely high temperatures, corrosive fumes, grease, oil or fire hazard. Flexible stranded used by automotive bus manufacturers and operators for engine compartment wiring and leads for batteries, crank case and radiator immersion heaters because of its high resistance to heat and flame. Maximum operating temperature 125°C.

Size AWG or MCM	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Solid Conductors					
18*	1	30	40	.180	22
16*	1	30	40	.195	26
14	1	30	40	.205	32
12	1	30	40	.225	42
10	1	30	40	.245	56
8	1	30	40	.270	79
6	1	40	40	.325	115
5	1	40	45	.355	140
4	1	40	45	.375	165
3	1	40	45	.400	205
2	1	40	45	.430	255
1	1	60	45	.500	320
1/0	1	60	45	.535	395
2/0	1	60	45	.575	485
3/0	1	60	45	.620	600
4/0	1	60	45	.670	745
Stranded Conductors					
18*	7	30	40	.190	22
16*	7	30	40	.200	28
14	7	30	40	.215	33
12	7	40	40	.255	47
10	7	40	40	.280	64
8	7	40	40	.310	90
6	7	60	45	.395	130
5	7	60	45	.420	155
4	7	60	45	.445	185
3	7	60	45	.470	225
2	7	60	45	.505	270
1	19	75	45	.575	345
1/0	19	75	45	.615	420
2/0	19	75	45	.660	520
3/0	19	75	45	.710	635
4/0	19	75	45	.770	785
250	37	90	45	.845	920
300	37	90	45	.900	1080
350	37	90	45	.955	1245
400	37	90	45	1.000	1405
450	37	90	45	1.045	1570
500	37	90	45	1.085	1730
550	61	105	45	1.155	1890
600	61	105	45	1.195	2080
650	81	105	45	1.230	2240
700	61	105	45	1.265	2415
750	61	105	45	1.300	2560
800	61	105	45	1.335	2730
850	61	105	45	1.365	2890
900	61	105	45	1.395	3050
950	61	105	45	1.425	3215
1000	61	105	45	1.455	3375

*Not listed in NEC.
These data are approximate and subject to normal manufacturing tolerances.

TYPE AIA RHEOSTAT WIRE AND CABLE

Copper Conductor — 600 Volts

(Continued)

Size AWG or MCM	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
Flexible Stranded Conductors					
18*	16	30	40	.185	23
16*	26	30	40	.200	27
14	41	30	40	.215	34
12	65	40	40	.255	49
10	104	40	40	.280	65
8	133	40	40	.330	94
6	133	60	45	.420	135
5	133	60	45	.450	165
4	133	60	45	.480	195
3	133	60	45	.510	235
2	133	60	45	.545	285
1	259	75	45	.620	360
1/0	259	75	45	.665	445
2/0	259	75	45	.720	540
3/0	259	75	45	.780	665
4/0	259	75	45	.845	810
250	427	90	45	.925	985
300	427	90	45	.990	1120
350	427	90	45	1.045	1330
400	427	90	45	1.100	1460
450	427	90	45	1.150	1690
500	427	90	45	1.195	1805

*Not listed in NEC.
Packaging: Sizes 18 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

TYPE AVB FLEXIBLE SWITCHBOARD HINGE CABLE

Copper Conductor — 600 Volts



Single conductor flexible cable with varnished cambric insulation and covered with a wall of asbestos and a cotton braid with a flame and moisture resisting finish. Maximum operating temperature 90°C.

Size AWG	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Braid		
14	41	55	16	.220	35
12	65	55	17	.240	45
10	104	55	17	.265	60
8	133	55	17	.315	90

Packaging: 500' coil.

FLEXIBLE HOOK-UP WIRE

Copper Conductor — 1000 Volts



Single conductor flexible wire covered with synthetic tapes and insulated with solid asbestos and a glass braid overall. Maximum operating temperature 125°C.

Size AWG	No. Strands	Thickness, Inches			O.D. In.	Net Wt. Lbs. M Ft.
		Tape	Asbes- tos	Braid		
18	16	.0065	.0085	.0075	.090	8
16	26	.0065	.0085	.010	.109	12
14	41	.010	.0085	.010	.132	19
12	65	.010	.010	.010	.155	28
10	104	.010	.010	.010	.180	42

Packaging: 500' coil or spool.

Price on Application

SILICONE RUBBER APPLIANCE AND FIXTURE WIRE

Copper Conductor — 600 Volts



Single conductor silicone rubber insulated wire with glass braid. Suitable for all types of wiring of lighting fixtures and other high wattage units such as sunlamps, therapeutic devices, etc. Sizes 12 and 10 AWG are listed by UL for use in clothes dryers.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
Type SF-2—Temperature 200°C				
18	7	2	.13	12
16	7	2	.14	16
14	7	2	.16	22
12	19	2	.18	32
10	41	3	.24	52
Type SFF-2—Temperature 150°C				
18*	16	1	.10	9
18	16	2	.13	12
16	26	2	.14	16
14	41	2	.16	22
12	65	2	.18	32

*Type SFF-1—300 volts. Packaging: 1000' spool. Packaging: 500' spool.

DIESEL LOCOMOTIVE CABLE

(Approved by U.S. Bureau of Mines and Pennsylvania Department of Mines)

Copper Conductor — 600 Volts



Single conductor lead cured Type W mining cable. Flexible or extra-flexible stranded conductor insulated with rubber and an overall jacket of lead cured Neoprene. Recommended for interior wiring of motors, mine locomotives and wherever a flexible cable is needed. Maximum operating temperature 75°C.

Size AWG or MCM	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
8	49 or 133	.44	130
6	49 or 133	.51	190
4	49 or 133	.57	260
3	49 or 133	.63	320
2	133 or 259	.66	390
1	133 or 259	.74	460
1/0	133 or 259	.77	550
2/0	133 or 259	.82	650
3/0	259 or 427	.87	800
4/0	259 or 427	.93	950
250	259 or 427	1.03	1380
300	259 or 427	1.09	1570
350	259 or 427	1.15	1750
400	259 or 427	1.20	2040
450	259 or 427	1.26	2220
500	259 or 427	1.31	2400
550	259 or 427	1.42	2600
600	259 or 427	1.46	2810
650	259 or 427	1.50	2975
700	427 or 703	1.54	3285
750	427 or 703	1.58	3510
800	427 or 703	1.62	3750
900	427 or 1159	1.69	4080
1000	427 or 1159	1.76	4450

Packaging: 1000' reel and longer.

These data are approximate and subject to normal manufacturing tolerances.

TYPE TA SWITCHBOARD WIRE

Copper Conductor — 600 Volts



Solid



Stranded

Single conductor wire insulated with a Polyvinyl Chloride sheath, impregnated felted asbestos and covered with a cotton braid finished with flame resistant compound. Recommended for switchboards, control panels and hinge connections. Maximum operating temperature 90°C.

Size AWG	No. Strands	Thickness, Mils		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Felted Wall Cotton Braid		
Solid Conductor					
18*	1	20	20	.160	20
16*	1	20	20	.170	25
14	1	20	20	.185	30
12	1	20	20	.200	40
10	1	20	20	.225	55
8	1	20	20	.250	75
6	1	30	25	.315	120
5	1	30	25	.335	145
4	1	30	25	.360	175
3	1	30	25	.385	210
2	1	30	25	.420	260
1	1	40	30	.480	330
1/0	1	40	30	.515	405
2/0	1	40	30	.555	495
3/0	1	40	30	.600	605
4/0	1	40	30	.650	750
Stranded Conductor					
18*	7	20	20	.165	20
16*	7	20	20	.180	25
14	7	20	20	.195	32
12	7	20	20	.215	41
10	7	20	20	.240	56
8	7	20	20	.270	79
6	7	30	25	.340	125
5	7	30	25	.365	150
4	7	30	25	.395	180
3	7	30	25	.425	240
2	7	30	25	.455	265
1	19	40	30	.525	345
1/0	19	40	30	.565	420
2/0	19	40	30	.610	515
3/0	19	40	30	.660	635
4/0	19	40	30	.720	780
Flexible Stranded Conductor					
18*	16	20	20	.165	20
16*	26	20	20	.180	25
14	41	20	20	.195	31
12	65	20	20	.215	42
10	104	20	20	.245	57
8	133	20	20	.290	84
6	133	30	25	.365	130
5	133	30	25	.395	160
4	133	30	25	.425	190
3	133	30	25	.460	230
2	133	30	25	.495	280
1	259	40	30	.570	360
1/0	259	40	30	.615	435
2/0	259	40	30	.670	535
3/0	259	40	30	.730	660
4/0	259	40	30	.795	810

*Not listed in National Electric Code.

Packaging: Sizes 18 through 8 AWG, 500' coil; 6 AWG and larger, 500' reel.

Price on Application

VARNISHED CAMBRIC APPARATUS LEADS

Copper Conductor



Extra-flexible conductors insulated with varnished cambric and covered overall with a lacquer or moisture resistant braid. Suitable for use where cable is subjected to ordinary usage such as brush-holder leads, motor leads, etc., where it comes in contact with lubricating and other oils.

Size AWG or MCM	Area in CM	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
17	1900	19/30	2	.18	14
16	2544	16/28	2	.19	16
15	3021	19/28	2	.19	17
14	3838	19/27	2	.20	20
12	6087	19/25	3	.25	39
11	7676	19/24	3	.26	41
11	7676	19/24	8	.43	85
10	10908	27/24	3	.28	54
10	10908	27/24	8	.45	95
8	14948	37/24	3	.30	74
8	14948	37/24	8	.48	123
6	24644	61/24	4	.38	129
6	24644	61/24	8	.51	178
5	36764	91/24	4	.42	156
5	36764	91/24	8	.55	208
4	42420	105/24	4	.45	179
3	50500	125/24	4	.47	222
3	50500	125/24	8	.60	279
2	60600	150/24	4	.54	264
2	60600	150/24	8	.67	320
2	70700	175/24	5	.59	300
2	70700	175/24	8	.69	345
1	90900	225/24	5	.65	339
1	90900	225/24	8	.76	383
1/0	111100	275/24	5	.69	442
1/0	111100	275/24	8	.80	482
2/0	131300	325/24	5	.75	511
2/0	131300	325/24	8	.84	554
2/0	151500	375/24	5	.78	574
3/0	181800	450/24	5	.83	679
3/0	181800	450/24	8	.93	735
4/0	222200	550/24	5	.88	810
250	262600	650/24	6	.97	988
300	313100	775/24	6	1.04	1164
350	373700	925/24	6	1.10	1363
450	444400	1100/24	6	1.18	1608
450	444400	1100/24	8	1.24	1679
550	535300	1325/24	7	1.30	1946
550	535300	1325/24	8	1.33	1978
650	646400	1600/24	7	1.38	2314
650	646400	1600/24	8	1.41	2347
800	777700	1925/24	7	1.48	2743
900	929200	2300/24	7	1.60	3243
900	929200	2300/24	8	1.63	3279

Packaging: 1000' reel and longer.

Recommended Thickness of Insulation

Voltage	Conductor Size	Thickness of Varnished Cambric in 64th In.
*Up to 750 Volts (incl.)	19/30—19/27	2
	19/25—37/24	3
	61/24—150/24	4
	175/24—550/24	5
751 to 3000	650/24—1100/24	6
	1325/24 & larger	7
	19/24 & larger	8

*Sizes smaller than 19/25 are not recommended for voltages greater than 750 volts. These data are approximate and subject to normal manufacturing tolerances.

SMALL DIAMETER NEOPRENE MOTOR LEADS

Copper Conductor — 300 & 600 Volts



Single conductor Neoprene insulated wire especially suitable for use as leads for coils, transformers, motors, or ballasts where the baking cycle is severe. Also used wherever an appliance wire is required to withstand elevated temperatures, either in the manufacturing cycle or in actual operation. Listed by UL for operation within appliances at 90°C dry and for 60°C operation in oil.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
300 Volts				
20	10	2	.11	8
18	16	2	.11	11
16	26	2	.13	15
600 Volts				
18	16	3	.15	16
16	26	3	.16	20
14	41	3	.18	25
12	65	3	.19	33
10	105	3	.23	47
8	133	4	.31	94
6	133	4	.36	134
4	133	4	.42	197
2	133	4	.49	291
1	133	5	.57	376

Packaging: 500' spool.

BELL (ANNUNCIATOR) WIRE

Copper Conductor



One and two conductor wire with thermoplastic insulation suitable for bells, radios, chimes, communication systems and toy electric trains.

Size AWG	No. Strands	No. Conductors	Insul. Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
20	1	1	.015	.060	5
18	1	1	.015	.070	7
18	Twisted Pair	2	.015	.140	13

Packaging: Sizes 20 AWG single conductor available in 1/4, 1 and 5 lb. spools or 25' and 65' coils. Size 18 AWG single conductor available in 1/4, 1/2 and 1 lb. coils or 1, 5 and 7 lb. spools. Size 18 AWG two conductor available in 500' spools.

MAGNET WIRE

Many types of round, square or rectangular magnet wire are available some of which are listed below:

Enameled Wire—(1) plain, (2) vinyl acetal resin varnish, (3) nylon, (4) polyurethane which is solderable, (5) polyester, (6) epoxy, etc.

Single and Double Covered Enameled Wire—(1) cotton, (2) paper, (3) glass fiber yarn bonded with varnish, (4) cotton or paper over vinyl acetal resin varnish (5) glass fiber yarn over vinyl acetal resin varnish, (6) combination glass fibers and dacron fibers bonded with varnish, etc.

Single and Double Fiber Covered Wire—(1) cotton, (2) paper, (3) glass fiber yarn bonded with varnish, (4) glass fiber yarn bonded with silicone varnish, (5) combination glass fibers and dacron fibers bonded with varnish, etc.

Check your Graybar office for complete information.

Price on Application

BUS DROP POWER CABLE

Copper Conductor — 600 Volts



Three conductor Polyvinyl Chloride insulated cable with ground wires, cabled with jute fillers, Mylar tape and Polyvinyl Chloride jacket overall. Suitable for use to connect branch circuit runs between overhead bus feeders, open or enclosed, to machine tools, factory equipment, etc., where resistance to water, oils, and lubricants is highly important. Maximum operating temperature 60°C.

Size AWG	No. Strands	Thickness 64th In.		Each Gr'd. Wire Size	O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket			
14	7	2	3	18	.39	126
12	7	2	3	18	.43	154
10	7	2	3	16	.49	203
8	7	3	4	14	.65	328
6	7	4	4	12	.79	510
4	7	4	5	10	.93	701
2	7	4	5	8	1.06	1056

Packaging: 1000' reel.

SERIES LIGHTING CABLE

Copper Conductor — 3000-8000 Volts



Solid, single conductor cable with thermoplastic insulation and jacket, or rubber insulation and Neoprene jacket. Suitable for series lighting circuits, aerial, in ducts or direct burial.

Size AWG	Voltage KV	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket		
PVC (Polyethylene Chloride) Insulation					
8	3	7	0	.36	99
6	3	8	0	.43	157
8	5	10	0	.46	134
6	5	10	0	.50	184
Polyethylene Insulation					
8	3	6	0	.33	80
6	3	6	0	.37	120
8	3	5	3	.40	106
6	3	5	3	.43	142
8	5	8	0	.40	94
6	5	8	0	.43	136
8	5	6	3	.43	115
6	5	6	3	.46	152
Rubber Insulated—Neoprene Jacket					
8	3	7	3	.47	145
6	3	8	4	.56	216
8	5	10	4	.59	208
6	5	10	4	.63	255

Packaging: 1000' reel.

These data are approximate and subject to normal manufacturing tolerances.

AIRPORT LIGHTING CABLE

(Conform to FAA Specification L-824)

Copper Conductor — 3000 & 5000 Volts



Single conductor cables that meet the requirements of FAA Specification L-824, Specification for Underground Electrical Cables for Airport Lighting.

Type A—Natural or synthetic rubber insulation with Neoprene jacket. Maximum operating temperature 75°C.

Type B—Ozone resistant Butyl rubber insulation with Neoprene jacket. Maximum operating temperature 85°C.

Size AWG	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
		Insul.	Jacket		
3000 Volts					
8	19	7	3	.46	150
8	19	7	3	.48	162
6	19	8	4	.58	242
4	19	8	4	.63	314
5000 Volts					
8	19	10	4	.60	219
8	19	10	4	.62	235
6	19	10	4	.65	283
4	19	10	4	.70	360

Packaging: 1000' reel.

BORE-HOLE POWER CABLE

Copper Conductor — 5000 Volts



Three conductor Butyl rubber insulated cable with Neoprene jacket. Suitable for almost any three conductor circuit but especially suited for use in mine bore-hole applications and for direct burial along the right-of-way. Maximum operating temperature 90°C.

Size AWG or MCM	No. Strands	Thickness 64th In.		O.D. In.	Grd. Wire Size	Net Wt. Lbs. M Ft.
		Insul.	Jacket			
Grounded or Ungrounded						
6	7	10	.080	1.39	10	1367
6	19	10	.080	1.39	10	1367
4	7	10	.080	1.49	9	1808
4	19	10	.080	1.50	9	1808
2	7	10	.080	1.62	7	2165
2	19	10	.080	1.63	7	2165
1	19	10	.110	1.77	6	2446
1	37	10	.110	1.77	6	2446
1/0	19	10	.110	1.86	5	2736
1/0	37	10	.110	1.86	5	2736
2/0	19	10	.110	1.96	4	3168
2/0	37	10	.110	1.96	4	3168
3/0	19	10	.110	2.06	3	4179
3/0	37	10	.110	2.07	3	4179
4/0	19	10	.110	2.19	2	4733
4/0	37	10	.110	2.19	2	4733
250	37	11	.110	2.36	1	5648
350	37	11	.110	2.58	1/0	6955
500	37	11	.140	2.92	3/0	9306

Packaging: 1000' reel.

Price on Application

POLE AND BRACKET CABLE

Copper Conductor — 0-10,000 Volts



Two conductor parallel thermoplastic insulated cable with Polyethylene jacket. Suitable for series lighting circuit wiring usually inside pole from base to lighting fixture, or from bracket or cross-arm aerially to fixture. Maximum operating temperature 75°C.

Open Circuit Voltage	Size AWG	No. Strands	Thickness 64th In.		O.D. In.	Net Wt. Lbs. M Ft.
			Insul.	Jacket		
0-600	10	7	3	0	.45	94
	10	19	3	0	.45	94
	8	7	4	0	.57	149
	8	19	4	0	.57	149
	6	7	4	0	.67	229
	6	19	4	0	.67	229
4001-6000	10	19	3	6	.63	144
	8	19	3	6	.69	191
6001-10000	6	19	4	6	.81	276
	10	19	3	7	.66	154
	8	19	3	7	.72	211
	6	19	4	7	.86	316

Packaging: 1000' reel.

TYPE GTO NEON SIGN AND OIL BURNER IGNITION CABLE

Copper Conductor — 10,000 & 15,000 Volts



Single conductor Polyethylene insulated cable with thermoplastic jacket. Suitable for indoor or outdoor use for neon signs and oil burner ignitions.

Size AWG	No. Strands	Insul. Thick. 64th In.	O.D. In.	Voltage	Net Wt. Lbs. M Ft.
14	19x27	3	.205	10,000	32
14	19x27	4	.245	15,000	35

Packaging: 250' coil.

GRAYBAR distributes the quality products of hundreds of famous manufacturers. Our association with some of these manufacturers has been in effect ten, twenty, fifty and, in several instances, over ninety years.

STEEL ARMORED THERMOSTAT CABLE

Copper Conductor



Multi-conductor thermoplastic insulated cable, twisted, cotton braid overall and steel armored. Suitable for use with thermostat controls in connection with heating and air conditioning installations.

Size AWG	No. Conductors	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
18	2	1	.180	32
18	3	1	.195	40
18	4	1	.215	48
18	5	1	.235	58
18	6	1	.260	67

Packaging: Size 18/2, 500' spool; balance of sizes, 250' spool.

NO BRAID THERMOSTAT CABLE

Copper Conductor



Multi-conductor thermoplastic insulated cable, twisted, no braid or jacket. Suitable for use with thermostat controls in connection with heating and air conditioning installations.

Size AWG	No. Conductors	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
18	2	1	.140	14
18	3	1	.145	21
18	4	1	.165	27
18	5	1	.185	33
18	6	1	.205	43
18	7	1	.205	49
18	8	1	.230	55
16	2	1	.165	23
16	3	1	.170	33

Packaging: Sizes 18/2, 18/3, 18/4, 18/5, 16/2, 16/3, 500' spool; balance of sizes, 250' spool.

PLASTIC JACKETED THERMOSTAT CABLE

Copper Conductor



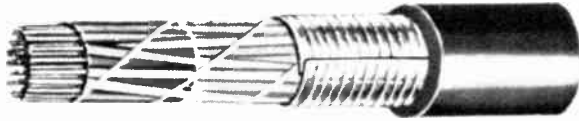
Multi-conductor thermoplastic insulated cable, twisted, overall plastic jacket. Suitable for use with thermostat controls in connection with heating and air conditioning installations. May also be used for bell and annunciator systems. Designed for use at low voltage.

Size AWG	No. Conductors	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
18	2	1	.170	20
18	3	1	.175	28
18	4	1	.205	36
18	5	1	.225	42
18	6	1	.225	50
18	7	1	.240	56
18	8	1	.265	65
16	2	1	.205	29
16	3	1	.215	40

Packaging: Sizes 18/2, 18/3, 16/2, 16/3, 500' spool; balance of sizes, 250' spool.

**AERIAL & DUCT EXCHANGE
AREA CABLE**

(REA Specification PE-22)
Copper Conductor

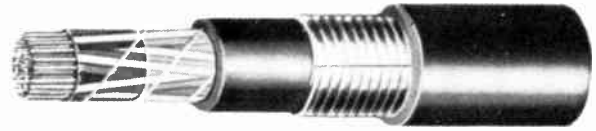


Each solid conductor is insulated with heat-stabilized, moisture resistant, high dielectric strength, high density, low-loss Polyethylene. Full color coded, all pairs guaranteed. Pairs twisted to eliminate cross-talk and assembled into layer or group cables. Cable binder is a non-hygroscopic tape. Available with .008" aluminum or .005" copper tape shield applied longitudinally with the large diameter shields being corrugated for flexibility. Outer jacket is black high molecular weight Polyethylene which is highly resistant to abrasion, weathering, moisture, corrosion and environmental cracking.

No. Pairs	Jacket Thick. In.	O.D. In.	Wt. Lbs. M Ft.		Reel Lgth. Ft.
			Alum. Shield	Copper Shield	
26 AWG Conductors					
12	.060	.375	78	88	5000
18	.060	.405	95	106	5000
25	.060	.445	119	132	5000
50	.060	.555	207	223	5000
75	.060	.645	258	277	2500
100	.060	.715	317	340	2500
150	.060	.835	477	503	2500
200	.060	.935	609	639	2000
300	.070	1.140	875	914	2000
400	.070	1.280	1168	1246	1000
600	.080	1.520	1665	1715	1000
900	.080	1.840	2419	2486	1000
24 AWG Conductors					
6	.060	.380	80	90	5000
12	.060	.420	106	118	5000
18	.060	.470	130	143	5000
25	.060	.530	160	180	5000
50	.060	.660	283	303	5000
75	.060	.770	418	444	2500
100	.060	.860	508	536	2500
150	.070	1.070	733	770	2000
200	.070	1.200	934	975	1000
300	.080	1.440	1344	1392	1000
400	.080	1.640	1776	1833	1000
600	.090	1.980	2580	2650	1000
900	.100	2.410	3754	3837	1000
22 AWG Conductors					
6	.060	.420	95	105	5000
12	.060	.490	137	151	5000
18	.060	.560	201	217	5000
25	.060	.630	245	263	5000
50	.060	.800	420	445	5000
75	.060	.950	596	619	2500
100	.070	1.130	807	846	2500
150	.070	1.330	1083	1128	1000
200	.080	1.510	1485	1537	1000
300	.090	1.820	2160	2224	1000
400	.090	2.060	2705	2780	1000
600	.110	2.530	4061	4147	1000
19 AWG Conductors					
6	.060	.500	136	150	5000
12	.060	.630	235	252	5000
18	.060	.730	318	339	5000
25	.060	.820	419	446	5000
50	.070	1.130	753	790	2500
75	.070	1.330	1070	1116	2500
100	.080	1.530	1455	1508	2500
150	.080	1.810	2051	2118	1000
200	.090	2.090	2657	2731	1000
300	.100	2.540	3997	4084	1000
400	.110	2.890	5040	5138	1000

DIRECT BURIAL TELEPHONE CABLE

(REA Specification PE-23)
Copper Conductor



Each solid conductor is insulated with heat-stabilized, moisture resistant, high dielectric strength, high density, low-loss Polyethylene. Full color coded, all pairs guaranteed. Pairs twisted to eliminate cross-talk and assembled in layer and group cables. Cable binder is a non-hygroscopic tape. Inner jacket is an extruded high dielectric strength Polyethylene belt for a lightning-impulse barrier, impervious jacket and mechanical protection. .005" copper tape shield is standard and is applied longitudinally with the large diameter shields being corrugated for flexibility. Also available with a .010" copper tape shield to provide more protection against gopher attack. Outer jacket is black high molecular weight Polyethylene which is highly resistant to abrasion, weathering, moisture, corrosion and environmental cracking.

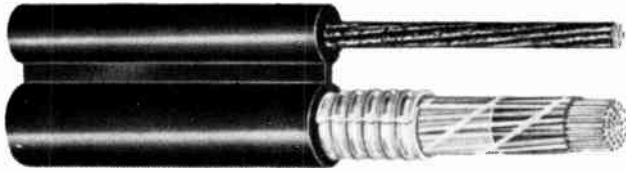
No. Pairs	Inner Jacket	Thickness, Inches		O.D. In.	Wt. Lbs. M Ft.		Reel Lgth. Ft.
		Outer Jacket			.005"	.010"	
		Low Density Poly.	High Density Poly.				
26 AWG Conductors							
12	.050	.040	.035	.440	115	147	5000
18	.050	.040	.035	.470	135	168	5000
25	.050	.040	.035	.510	154	192	5000
50	.050	.040	.035	.620	248	290	5000
75	.050	.040	.035	.710	307	358	2500
100	.050	.040	.035	.780	369	471	2500
150	.050	.040	.035	.900	539	602	2500
200	.050	.040	.035	1.020	694	770	2000
300	.050	.050	.040	1.200	957	1042	1000
400	.060	.050	.040	1.360	1279	1378	1000
600	.060	.060	.050	1.600	1803	1922	1000
900	.070	.060	.050	1.920	2582	2726	1000
24 AWG Conductors							
6	.050	.040	.035	.440	104	133	5000
12	.050	.040	.035	.475	136	167	5000
18	.050	.040	.035	.530	165	202	5000
25	.050	.040	.035	.580	222	261	5000
50	.050	.040	.035	.720	342	393	5000
75	.050	.040	.035	.830	475	536	2500
100	.050	.040	.035	.920	607	679	2500
150	.050	.050	.040	1.130	856	942	2500
200	.060	.050	.040	1.280	1092	1185	2000
300	.060	.050	.040	1.500	1522	1630	2000
400	.060	.060	.050	1.720	2024	2149	1000
600	.070	.060	.050	2.060	2742	2898	1000
900	.070	.060	.050	2.460	4045	4226	1000
22 AWG Conductors							
6	.050	.040	.030	.480	150	167	5000
12	.050	.040	.030	.550	170	232	5000
18	.050	.040	.030	.620	241	283	5000
25	.050	.040	.030	.690	302	352	5000
50	.050	.040	.030	.860	478	538	5000
75	.050	.040	.030	1.040	680	757	2500
100	.050	.050	.040	1.190	886	972	2500
150	.060	.050	.040	1.410	1258	1361	2500
200	.060	.050	.040	1.570	1597	1716	2000
300	.070	.060	.050	1.900	2322	2466	1000
400	.070	.060	.050	2.140	3032	4470	1000
600	.070	.070	.060	2.590	4285	4470	1000
19 AWG Conductors							
3	.050	.040	.030	.470	123	155	5000
6	.050	.040	.030	.560	168	205	5000
12	.050	.040	.030	.690	290	338	5000
18	.050	.040	.030	.790	367	420	5000
25	.050	.040	.030	.880	480	571	5000
50	.050	.050	.040	1.190	871	961	2500
75	.060	.050	.040	1.410	1246	1350	2500
100	.060	.050	.040	1.590	1568	1686	2500
150	.070	.060	.050	1.910	2236	2381	2000
200	.070	.060	.050	2.170	2986	3148	1000
300	.070	.070	.060	2.600	4168	4348	1000

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

FIGURE "8" EXCHANGE AREA CABLE
(REA Specification PE-38)

Copper Conductor



Each solid conductor is insulated with heat-stabilized, moisture resistant, high dielectric strength, low-loss, high molecular weight Polyethylene. Full color code, all pairs guaranteed. Pairs twisted to eliminate cross-talk and assembled into layer or group cables. Cable binder is a non-hygroscopic tape. .005" copper tape shield, corrugated and applied longitudinally. Messenger is 6M, 1/4", 7 wire extra high strength, Class A double galvanized steel per ASTM A-122. Strand interstices are sealant filled to provide corrosion protection. The messenger and cable core are unitized in the simultaneous figure 8 extrusion of black high molecular weight Polyethylene, which is highly resistant to abrasion, tearing, weathering, moisture, corrosion and environmental cracking.

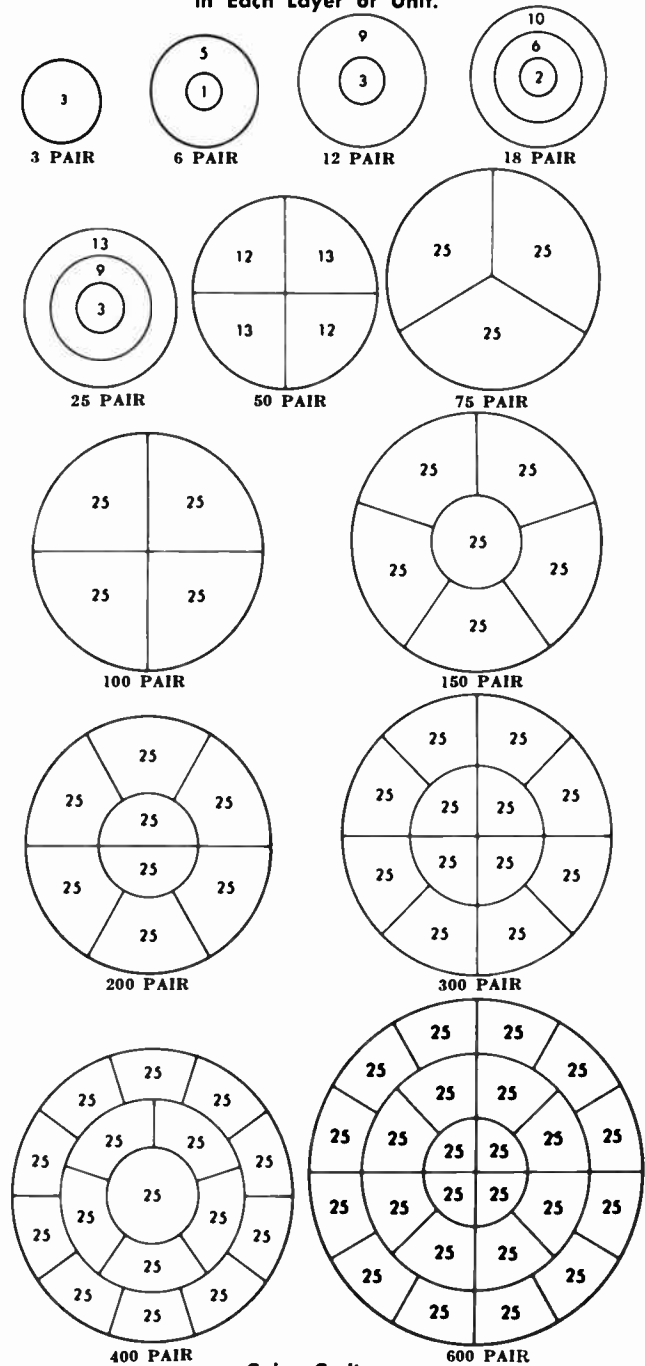
No. Pairs	Jacket Thick. In.	O.D. Jacketed Core In.	Wt. Lbs. M Ft.		Reel Lgth. Ft.
			Alum. Shield	Copper Shield	
26 AWG Conductors					
12	.060	.375	271	278	5000
18	.060	.405	299	307	5000
25	.060	.445	315	328	5000
50	.060	.555	398	414	5000
75	.060	.645	468	490	2500
100	.060	.715	549	569	2500
150	.060	.835	660	686	2500
200	.060	.935	798	827	2000
300	.070	1.140	1094	1133	2000
400	.070	1.280	1386	1430	1000
24 AWG Conductors					
18	.060	.470	325	339	5000
25	.060	.530	358	374	5000
50	.060	.660	473	494	5000
75	.060	.770	600	624	2500
100	.060	.860	689	716	2500
150	.070	1.070	940	976	2000
200	.070	1.200	1152	1191	1000
300	.080	1.440	1592	1636	1000
22 AWG Conductors					
12	.060	.490	333	351	5000
18	.060	.560	392	408	5000
25	.060	.630	436	455	5000
50	.060	.800	611	636	5000
75	.060	.950	797	826	2500
100	.070	1.130	1032	1071	2500
150	.070	1.330	1344	1390	1000
200	.080	1.510	1702	1754	1000
19 AWG Conductors					
6	.060	.500	330	346	5000
12	.060	.630	424	443	5000
18	.060	.730	528	549	5000
25	.060	.820	609	636	5000
50	.070	1.130	1019	1056	2500
75	.070	1.330	1331	1377	2500
100	.080	1.530	1655	1707	2500

Note: Supporting wires of other types can be supplied upon request.

These data are approximate and subject to normal manufacturing tolerances.

TELEPHONE CABLE LAYUPS

Digits Refer to the Number of Pairs in Each Layer or Unit.



Color Coding

Groups of less than 25 pairs, comprising a single unit, are designated by the same color binder thread.

Pair or Unit No.	Color Code	Pair or Unit No.	Color Code
1	White-Blue	14	Black-Brown
2	White-Orange	15	Black-Slate
3	White-Green	16	Yellow-Blue
4	White-Brown	17	Yellow-Orange
5	White-Slate	18	Yellow-Green
6	Red-Blue	19	Yellow-Brown
7	Red-Orange	20	Yellow-Slate
8	Red-Green	21	Violet-Blue
9	Red-Brown	22	Violet-Orange
10	Red-Slate	23	Violet-Green
11	Black-Blue	24	Violet-Brown
12	Black-Orange	25	Violet-Slate
13	Black-Green	...	.....

Price on Application

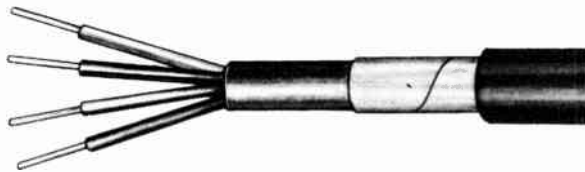
TELEPHONE TYPE BSW BURIED SERVICE WIRE
(REA Specification PE-43)



Two parallel soft copper conductors individually insulated with high density Polyethylene, with inner jacket of black Polyethylene, helical shield (.005" bronze tape) applied with overlap, and outer jacket of black Polyvinyl Chloride. Color code: blue and white. Used as buried drop wire in rodent or termite infested areas without additional mechanical protection.

Size AWG	O.D. In.	Max. Cond. Resistance @68°F Ohms/M Ft.	Wt. Lbs. M Ft.	Reel Lgth. Ft.
19	.275x.215	8.7	46	2000

TELEPHONE TYPE BSW4 UNDERGROUND SERVICE WIRE



Four star-quadded 40% conductivity annealed copper-clad steel conductors insulated with color coded high density Polyethylene, with inner jacket of Polyvinyl Chloride, spirally wrapped aluminum tape shield, and outer jacket of black Polyvinyl Chloride. Used for direct burial on subscriber's premises.

Size AWG	O.D. In.	Max. Cond. Resistance @68°F Ohms/M Ft.	Wt. Lbs. M Ft.	Reel Lgth. Ft.
20	.248	30	40	2500

TELEPHONE TYPE ADC BURIED DISTRIBUTION CABLE



Soft copper conductors with standard color code, high density Polyethylene insulation. Core is designed with all different pair twist lays to minimize cross-talk and is covered with non-hygroscopic tape. Inner jacket of extruded high molecular weight Polyethylene, protected with served armor of flat steel ribbons (with flooding compound to protect armor from corrosion and exclude water), outer jacket of tough black Polyethylene impervious to moisture. For underground distribution of telephone circuits. Suitable for direct burial without supplementary mechanical protection. Good for rodent or termite infested areas.

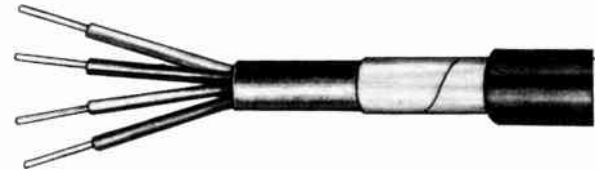
No. Pairs	Size AWG	O.D. In.	Wt. Lbs. M Ft.	Reel Lgth. Ft.
1	19	.305x.220	48	6000/10000
1	16	.415x.285	80	6000/12000
2	19	.300	63	10000

These data are approximate and subject to normal manufacturing tolerances.

TELEPHONE TYPE BDW BURIED DISTRIBUTION WIRE
(REA Specifications PE-24 & PE-45)



Single Pair



Two Pair

For use in underground distribution of telephone circuits. Designed for direct burial without supplementary mechanical protection. Ideal for use in rodent or termite infested areas. Jacket is sequentially numbered at 2' intervals.

Single Pair—REA PE-24

Two parallel soft copper conductors (one conductor tinned) insulated with natural Polyethylene, shielded with helically applied .005" bronze tape, and jacketed with black high density Polyethylene.

Two Pair—REA PE-45

Four star-quadded soft copper conductors individually insulated with high density Polyethylene, with inner jacket of high molecular weight Polyethylene, .005" bronze tape shield helically applied with overlap, and outer jacket of black high density Polyethylene. Color code: standard, except "tip" has "ring" conductor color as integral longitudinal stripe.

No. Pairs	22 AWG		19 AWG	
	Wt. Lbs. M Ft.	Reel Lgth. Ft.	Wt. Lbs. M Ft.	Reel Lgth. Ft.
3	79	10000	110	5000
6	109	10000	167	5000
12	167	5000	256	5000

TELESEAL DISTRIBUTING WIRE



Two Teleplate hard copper conductors, individually rubber insulated and jacketed with tough Neoprene compound, then twisted together. Double ridged tracer on one leg. For direct burial or overhead use. Low-loss transmission characteristics and stability of the insulation guarantee dependable service under severe conditions.

Size AWG and Type	O.D. In.*	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Breaking Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
16TSC2	.203	4.55	250	56	750
				86	2500
14TSC1	.238	3.00	190	42	1500
14TSC2	.238	3.00	380	47	750
				90	2500
12TSC1	.265	1.75	300	56	1000
12TSC2†	.265	1.75	600	105	750

†Coil eye is 20"; rest of sizes, 16".

*Dia. is that of single leg.

Price on Application

TELEPRENE DROP WIRE



Teleplate 18 AWG super high strength copperweld, 17 AWG copper-clad steel, 14 or 16 AWG hard copper or 17 AWG signal bronze conductors, insulated with high quality SBR rubber and jacketed with Neoprene compound. Polarity indicated by ridged tracer. Used primarily for service drops from open wire or distributing cable terminals to subscriber's stations.

Size AWG & Type	O.D. In.††	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Brkg. Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
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Parallel Conductors

Size AWG & Type	O.D. In.††	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Brkg. Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
18TCWP	.190x.300	24.2	570	38	1000
18TCWP-R*†	.190x.296	24.2	570	40	1000
17TBP	.175x.296	16.0	340	40	1000
17TBP-R*†	.195x.306	16.0	340	44	1000
17TCWP-R	.195x.306	20.0	340	43	1000

Twin Parallel Conductors

Size AWG & Type	O.D. In.††	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Brkg. Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
18TICWP	.155x.300	24.2	570	32	1000
18TICWP-R†	.175x.350	24.2	570	38	1000
17TIBP	.160x.310	16.0	340	36	1000

Twisted Pair Conductors

Size AWG & Type	O.D. In.††	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Brkg. Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
18TCW2	.150	24.2	570	35	1000
17TB2	.155	16.0	340	40	1000
17TCW2	.155	20.0	480	39	1000
17TB2-R†	.175	16.0	340	45	1000

Two and Three Conductors—Single or Twisted

Size AWG & Type	O.D. In.††	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Brkg. Strength Lbs.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
16THC1	.185	4.55	125	26	1500
16THC2	.185	4.55	250	52	1000
16THC3	.185	4.55	375	72	750
14THC1	.220	3.00	190	38	1500
14THC2	.220	3.00	380	72	750
14THC3	.220	3.00	570	116	500

Coil eye is 16".

*Complies with REA Specification PE-7.

†Reinforced construction.

††For twisted types, dia. is that of one leg.

PRE-WIRING CABLE



Soft copper conductors, six pairs all twisted with different lengths of pair twist and cabled together; standard color code. Semi-rigid Polyvinyl Chloride insulation. Rated 80°C. For installation during building immediately prior to lath or drywall construction for initial and anticipated multi-telephone and special application services such as night-light power, inter-phone or door-answering devices.

No. Pairs	Size AWG	O.D. In.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
6	24	.180	9	17	1250

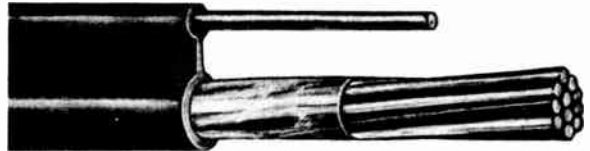
These data are approximate and subject to normal manufacturing tolerances.

TELEPHONE TYPE DWM FIGURE "8" DISTRIBUTION WIRE

(REA Specifications PE-27 & PE-28)



Single Pair



Multi-Pair

Solid annealed copper conductors with high density Polyethylene insulation. Core of multi-pair, with all different lengths of pair twist included to minimize cross-talk, is covered with high dielectric strength non-hygroscopic tape. Messenger is .109" or .134" solid extra high strength steel, Class A galvanized; minimum breaking strengths are 1800 and 2680 lbs. respectively. Tough black Polyethylene jacket encases both core and messenger in Figure 8 form.

No. Pairs	Size AWG	Jacket Wall Inches		O.D. In. Over Cable	Wt. Lbs. M Ft.	
		Over Core	Over Mess.		.109" Mess.	.134" Mess.
Single Pair—REA PE-27						
1	19	.030	.030	...	63	83
Multi-Pair—REA PE-28						
2	19	.035	.035	.260	74	92
3	19	.035	.035	.300	86	104
4	19	.035	.035	.335	97	115
6	19	.040	.035	.390	121	140
12	19	.045	.035	.515	191	209
18	19	.050	.035	.620	259	277
2	22	.030	.035	.200	61	78
3	22	.030	.035	.235	67	85
4	22	.035	.035	.260	75	93
6	22	.035	.035	.290	87	104
12	22	.040	.035	.385	124	141
18	22	.040	.035	.450	157	175

Packaging: Single Pair—.109" messenger, 9000' reel; .134" messenger, 6000' reel. Multi-Pair—5000' reel.

TELEGROUND GROUND WIRE



Soft copper, tinned conductors, insulated with brown, black or ivory Polyvinyl Chloride. For ground connections from station protector to ground. REA approved.

Size AWG	O.D. In.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
14	.130	5	20	2000
10	.168	7	43	2000

TREE WIRE

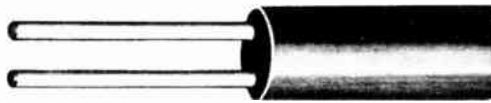


Single conductor 25% conductivity extra high strength copper-clad steel with Polyvinyl Chloride insulation. For use on open wire lines near trees to avoid interference in wet weather.

Size AWG	O.D. In.	Max. Cond. Resistance @68°F Ohms/M Ft.	Min. Breaking Strength Lbs.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
12	.186	7.0	1325	20	32	1000

Price on Application

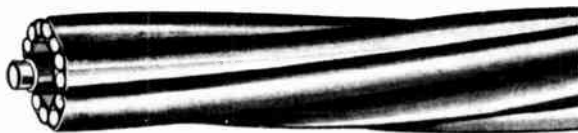
TYPE C RURAL DISTRIBUTION WIRE



Parallel, extra high strength 30% conductivity copper-clad steel conductors insulated with high density black Polyethylene; ridged tracer. Used in place of open wire in rural and coastal areas.

Size AWG & Type	O.D. In.	Max. Cond. Resistance @68°F Ohms/M Ft.	Wt. Lbs. M Ft.	Reel Lgth. Ft.
14CWP	.278x.160	9	41	5000
12CWP	.319x.180	6	57	5000

JACKETED PAIR DISTRIBUTION WIRE



Multi-pair, capable of withstanding relatively severe physical abuse, and featuring a high degree of electrical stability under all weather conditions.

Annealed copper conductors insulated with a tough, extra heavy wall of high density Polyethylene. Integral white longitudinal stripe tracer on one insulated conductor of each pair. Pairs easily identified by a single two color Polyvinyl Chloride jacket. In all pair sizes each pair appears on the outside at frequent intervals for easy access. Self-supporting, can be attached directly to pole or underside of crossarm.

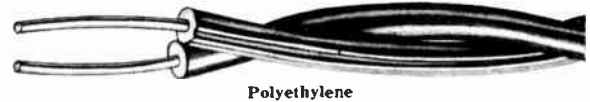
Individual pairs are twisted with various lengths of lay to minimize cross-talk. The jacketed pairs are twisted around a Polyethylene covered, extra high strength .109" or .134" galvanized steel messenger wire. Cables of 6 pairs or less are twisted directly around the messenger.

No. Pairs	Size AWG	Inches			Overall O.D.	Wt. Lbs. M Ft.
		Insul. O.D.	Insul. Wall	Jacket Wall		
With .109" Messenger						
3	22	.076	.025	.015	.360	103
6	22	.076	.025	.015	.460	125
12	22	.076	.025	.015	.710	207
18	22	.076	.025	.015	.860	289
1	19	.086	.025	.015	.330	61
2	19	.086	.025	.015	.350	83
3	19	.086	.025	.015	.410	100
4	19	.086	.025	.015	.510	122
6	19	.086	.025	.015	.520	165
12	19	.086	.025	.015	.790	296
18	19	.086	.025	.015	.960	640
With .134" Messenger						
12	22	.076	.025	.015	.720	224
18	22	.076	.025	.015	.870	306
2	19	.086	.025	.015	.360	100
4	19	.086	.025	.015	.520	139
6	19	.086	.025	.015	.530	182
12	19	.086	.025	.015	.800	313
18	19	.086	.025	.015	.970	666

Packaging: Pairs 1 through 6, 6000' reel; pairs 12 and 18 of 22 AWG, 3000' reel; pairs 12 and 18 of 19 AWG, 2000' reel.

These data are approximate and subject to normal manufacturing tolerances.

BRIDLE WIRE



Polyethylene



Neoprene Jacketed

Used for making connections between open wire lines and wire terminals or protectors and as leads on various types of apparatus. Size 20 AWG forms fuseable connection for lightning and high voltage protection. Polarity indicated by ridged tracer on one leg.

Polyethylene (REA PE-19)—Two 14 AWG soft copper or 20 AWG copper-clad steel conductors twisted together, insulated with weather resistant black Polyethylene.

Neoprene Jacketed—Two or three Teleplate soft copper conductors in 14 and 18 AWG, Teleplate hard copper and copper-clad steel (CWB) conductors in 20 AWG, twisted together, insulated with high quality SBR rubber and jacketed with Neoprene compound.

Size AWG & Type	O.D. In.*	Max. Cond. Resistance @68°F Ohms/M Ft.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
Polyethylene Insulation					
20PBCW2	.092	7	12	500	
14PBC2	.134	2.75	9	18	500
Neoprene Jacketed					
20TCWB2	.130	12.00	9	26	500
20TCWB3	.130	12.00	9	38	500
20TBC2	.130	12.00	7	28	500
20TBC3	.130	12.00	7	40	500
18TBC2	.140	7.50	9	36	500
18TBC3	.140	7.50	9	52	500
14TBC2	.220	2.65	16	74	750

*Dia. is that of single leg.

DISTRIBUTING FRAME, JUMPER AND DUCT WIRE



Uncovered Plastic



Nylon Jacketed

Two, three and four soft copper conductors, tinned and twisted, semi-rigid Polyvinyl Chloride insulation. Primarily used on distributing frames, cross connecting racks and in ducts.

Size AWG	O.D. In.	Max. Cond. Resistance @68°F Ohms/M Ft.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
Polyvinyl Chloride Insulation				
22/2	.055	17.7	7	4000
22/3	.055	17.7	11	4000
22/4	.055	17.7	14	4000
Polyvinyl Chloride Insulation—Nylon Jacket				
22/2	.056	17.7	7	4000
22/3	.056	17.7	11	4000

Price on Application

INSULATED LINE WIRE



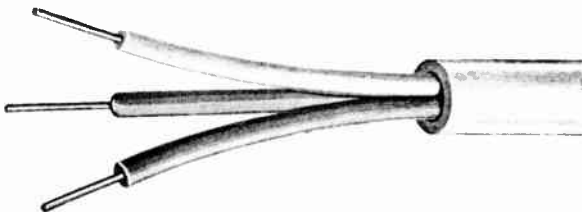
Copper-clad steel, galvanized steel or Alumoweld (aluminum-clad steel) conductors with black high density Polyethylene or Neoprene insulation. Single conductor for open wire construction in corrosive atmospheres, to reduce line spacing and to eliminate problems associated with mid-span hits on long-span insulation.

Cond. Dia. In.	Grade	Per Cent Cond.	Insul. Wall. In.	Min. Breaking Strength Lbs.	Wt. Lbs. M Ft.	Coil Lgth. Ft.
Neoprene Insulation—Copper-Clad Steel						
.080	EHS	25	2/64	1325	26	5500
.080	EHS	30	2/64	900	26	5500
.080†	HS	40	2/64	700	26	5500
.102†	EHS	30	2/64	1460	38	3300
.104	HS	40	2/64	1177	39	3300
.104	EHS	40	2/64	1325	39	3300
.128†	HS	40	3/64	1647	64	2200
.128	EHS	30	3/64	2204	64	2200
.162†	HS	40	3/64	2433	94	1400
Neoprene Insulation—Alumoweld						
.091	.....	..	2/64	1261	27	5000
Polyethylene Insulation—Copper-Clad Steel*						
.080	EHS	25	.020	1325	21	25000
.080	EHS	30	.020	900	21	22000
.080	HS	40	.020	770	21	22000
.102	EHS	30	.020	1460	32	16000
.104	HS	40	.020	1177	33	16000
.104	EHS	40	.020	1325	33	16000
.128	HS	40	.020	1647	49	11000
.128	EHS	30	.020	2204	50	11000
.162	HS	40	.020	2433	78	7000
Polyethylene Insulation—Alumoweld						
.091	.....	....	.020	1261	21	18000

*Complies with REA Specification PE-21.

†Complies with specification IMSA 28-2-1956, AAR 168-59 and ASA C8.34-1954.

TELEDUCT JACKETED INSIDE STATION WIRE



Two, three and four parallel soft copper conductors with Polyethylene insulation and Polyvinyl Chloride jacketed in brown, ivory or beige. Pair has one red and one green leg—triple has third leg yellow, quad has fourth leg black. Designed for fast, economical installation with stapling guns.

Size AWG	O.D. In.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
22/2	.167	5	18	2000
22/3	.167	5	19	2000
22/4	.182	5	22	2000

These data are approximate and subject to normal manufacturing tolerances.

TELEDUCT INSIDE STATION WIRE

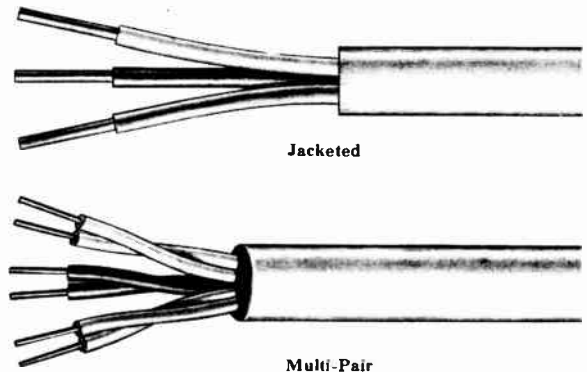


Two, three and four conductors of soft copper with brown or ivory insulation of flame resistant Polyvinyl Chloride, twisted. Colored rayon threads under insulation. Used inside buildings to extend circuits from protectors or other terminating fixtures to station sets.

Size AWG	Insul. Wall In.	O.D. In.*	Max. Cond. Resistance @68°F Ohms/M Ft.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
22/2	.021	.074	17.4	7	11	2000
22/3	.021	.074	17.4	5	15	2000
22/4	.021	.074	17.4	5	20	2000
19/2	.025	.086	9.0	5	16	2000
19/3	.025	.086	9.0	5	23	2000
19/4	.025	.086	9.0	7	92	500

*Dia. is that of a single leg.

TELEDUCT INSIDE-OUTSIDE STATION WIRE



For outside as well as inside runs from station protector to telephone terminal block. Designed for stapling gun installation.

Neoprene Jacket — Two, three and four tinned, parallel, Neoprene insulated soft copper conductors with overall brown Neoprene jacket.

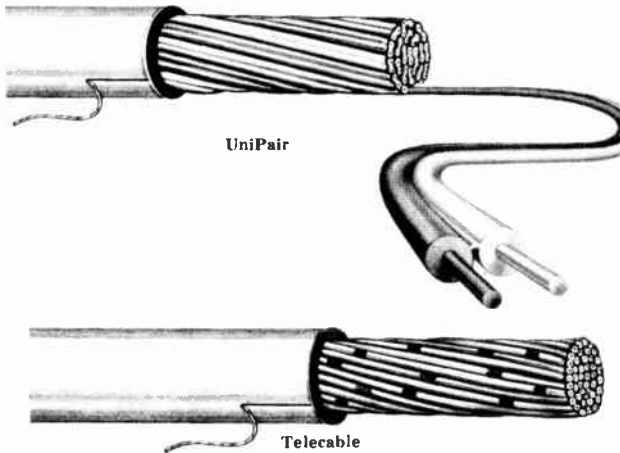
Polyvinyl Chloride Jacket (REA PE-20)—Same as above except Polyethylene insulated conductors twisted together and overall beige Polyvinyl Chloride jacket.

Multi-Pair—Similar to Polyvinyl Chloride but available in 2, 3 or 4 pairs.

Size AWG	No. Pairs	O.D. In.	Coil Eye In.	Wt. Lbs. M Ft.	Shpg. Pkg. Ft.
Neoprene Jacket					
22/2	..	.196	5	28	500
22/3	..	.207	7	32	500
22/4	..	.225	5	40	500
Polyvinyl Chloride Jacket					
22/2	..	.130	5	13	2000
22/3	..	.140	5	16	2000
22/4	..	.155	5	19	2000
Multi-Pair					
22/2	2	.185	5	38	500
22/3	3	.215	7	48	500
22/4	4	.235	9	64	500

Price on Application

INSIDE WIRING CABLE



Solid bare soft copper conductors with semi-rigid Polyvinyl Chloride insulation that has high resistance to crushing and cold flow (UniPair rated 60°C; Telecable rated 80°C). Pairs are twisted with systematically varied lays to minimize cross-talk and are cabled without fillers into a round core. Standard color code. Free stripping jacket of tough, flame and abrasion resistant Polyvinyl Chloride. Nylon rip cord for easy removal of jacket in beige tone. Number of pairs and gauge size indent marked on jacket. Lightweight for easy installation; water resistant for use in damp ducts. UniPair has two conductors insulated simultaneously in such a manner as to be joined by a thin web. Web-attached conductors provide positive pair and conductor identification, making error-free installation possible. Jacket also available in olive gray on request.

No. Pairs	24 AWG			22 AWG		
	Wall Jacket In.	O.D. In.	Wt. Lbs. M Ft.	Wall Jacket In.	O.D. In.	Wt. Lbs. M Ft.
UniPair						
6	.040	.230	37	.040	.260	50
16	.040	.330	80	.040	.365	112
25	.040	.395	123	.040	.440	164
32	.040	.435	150	.040	.490	204
50	.040	.550	240	.050	.615	328
75	.040	.650	342	.050	.730	464
100	.040	.740	439	.060	.830	615
Telecable						
6	.040	.260	47	.040	.280	58
12	.040	.330	76	.040	.360	101
16	.040	.370	96	.040	.405	124
21	.040	.410	120	...	...	...
25	.040	.440	137	.040	.485	180
50	.040	.610	270	.050	.675	353
75	.040	.725	377	.050	.800	510
100	...	...	...	.060	.930	678

Packaging: 2500' reel.

Binder Colors

Unit No.	Binder Colors	Pair Count
1	Blue-White	1-25
2	Orange-White	26-50
3	Green-White	51-75
4	Brown-White	76-100

Insulation Color Code

Pair No.	Tip	Ring	Pair No.	Tip	Ring
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Slate
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Slate	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Slate
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Slate	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Slate
13	Black	Green	...	...	...

These data are approximate and subject to normal manufacturing tolerances.

RUBBER INSULATED INSIDE TELEPHONE WIRE

Copper Conductor — 300 Volts



Two and three conductor rubber insulated wire, twisted, glazed cotton braid overall marked for identification. Used for inside connections for telephone, bell and annunciator systems.

Size AWG	No. Conductors	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
19	2	1	2	.260	21
19	3	1	2	.280	33

Packaging: 500' coil.

PLASTIC INSULATED INSIDE TELEPHONE WIRE

Copper Conductor — 300 Volts



Two and three conductor thermoplastic insulated wire with polarity identification by ridges, twisted. Used for extending telephone circuits inside buildings from ar-restors and other terminating fixtures to station sets and for sound and other inter-communication systems.

Size AWG	No. Conductors	No. Strands	Insul. Thick. In.	O.D. In.	Net Wt. Lbs. M Ft.
22	2	1	.010	.075 ea. cond.	10
22	3	1	.010	.075 ea. cond.	14
19	2	1	.010	.085 ea. cond.	14
19	3	1	.010	.085 ea. cond.	22

Note: Size 22 AWG has a max. resistance of 17.7 Ohms/M ft. each conductor; size 19 AWG has a max. resistance of 9.0 Ohms/M ft. each conductor.

Packaging: 1000' coil.

RUBBER INSULATED OUTSIDE TELEPHONE WIRE

Copper Conductor — 300 & 600 Volts



Two and three conductor rubber insulated wire, twisted, braided cotton overall saturated with weather-proof compound. Used for outdoor communications systems.

Size AWG	No. Conductors	No. Strands	Insul. Thick. 64th In.	O.D. In.	Net Wt. Lbs. M Ft.
300 Volts					
19	2	1	2	.245	25
19	3	1	2	.260	36
18	2	1	2	.260	27
18	3	1	2	.275	39
16	2	1	2	.290	35
16	3	1	2	.310	63
600 Volts					
14	2	1	3	.365	54
14	3	1	3	.395	80

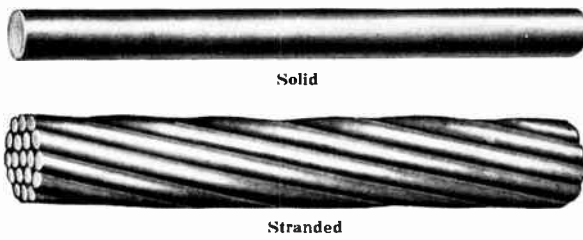
Packaging: 500' coil.

PAPER/PULP PAIRED COMMUNICATIONS CABLES

These cables are available in all gauges with pair count up to 3000. Information available on request.

Price on Application

BARE COPPER AND ALUMINUM WIRE AND CABLE



Soft, medium-hard or hard-drawn copper, or hard-drawn aluminum conductor. Made to the specifications of the American Society for Testing Materials which are the recognized American standards.

Solid Conductor					
Size AWG	Dia. In.	Net Wt. Lbs. M Ft.	Size AWG	Dia. In.	Net Wt. Lbs. M Ft.
14	.0641	12.4	2	.2576	200.9
12	.0808	19.8	1	.2893	253.3
10	.1019	31.4	1/0	.3249	319.5
8	.1285	49.9	2/0	.3648	402.8
6	.1620	79.4	3/0	.4096	507.8
4	.2043	126.3	4/0	.4600	640.5

Stranded Conductor					
Size AWG or MCM	No. Strands	O.A. Dia. In.	All-Aluminum Code Word	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
14	7	.0726		12.7	.....
12	7	.0915		20.2	.....
10	7	.116		32.1	.....
8	7	.146		50.9	.....
6	7	.184	Peachbell	81.1	24.6
4	7	.232	Rose	128.9	40.0
2	7	.292	Iris	204.9	62.3
1	7	.328	Pansy	258.4	78.6
1	19	.332		258.4	.....
1/0	7	.368	Poppy	325.8	99.1
1/0	19	.372		325.8	.....
2/0	7	.414	Aster	410.9	124.9
2/0	19	.419		410.9	.....
3/0	7	.464	Phlox	518.1	157.5
3/0	19	.470		518.1	.....
4/0	7	.522	Oxlip	653.3	198.6
4/0	19	.528		653.3	.....
250	37	.575		771.9	.....
266.8	19	.593	Laurel		250.5
300	37	.630		926.3	.....
336.4	19	.666	Tulip		315.8
350	19	.679	Daffodil	1081	328.5
350	37	.681		1081	.....
397.5	19	.724	Canna		373.2
400	37	.728		1235	.....
450	37	.772		1389	.....
477	37	.795	Syringa		447.8
500	37	.813		1544	.....
556.5	37	.858	Mistletoe		522.4
600	61	.893		1853	.....
636	37	.918	Orchid		597.1
700	61	.964		2161	.....
715.5	61	.975	Nasturtium		671.7
750	61	.998		2316	.....
795	61	1.028	Lilac		746.3
800	61	1.031		2470	.....
874.5	61	1.078	Crocus		820.9
954	61	1.126	Goldenrod		895.6
1000	61	1.152		3088	.....
1033.5	61	1.172	Larkspur		970.2
1113	61	1.216	Marigold		1045.0
1192.5	61	1.258	Hawthorn		1119.0
1272	61	1.300	Narcissus		1194.0
1351.5	61	1.340	Columbine		1268.0
1431	61	1.379	Carnation		1343.0
1510.5	61	1.417	Gladiolus		1419.0
1590	61	1.454	Coreopsis		1493.0

Packaging: As required. These data are approximate and subject to normal manufacturing tolerances.

TYPE AAAC BARE ALLOY CONDUCTOR
High Strength—High Conductivity

Code Word	EC Equiv. Size AWG or MCM	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
Akron	6	7	.198	28.7
Alton	4	7	.250	45.7
Ames	2	7	.316	72.7
Azuza	1/0	7	.398	115.7
Anaheim	2/0	7	.447	145.9
Amherst	3/0	7	.502	183.7
Alliance	4/0	7	.563	231.8
Butte	266.8	19	.642	293.6
Canton	336.4	19	.721	370.4
Cairo	397.5	19	.783	436.9
Darien	477.0	19	.858	525.2
Elgin	556.5	19	.927	612.4
Flint	636.0	37	.991	695.4
Greeley	795.0	37	1.108	870.4

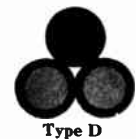
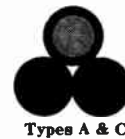
Packaging: As required.

5005 BARE ALUMINUM ALLOY CONDUCTOR
Medium Strength—High Conductivity

Code Word	EC Equiv. Size AWG	No. Strands	O.D. In.	Net Wt. Lbs. M Ft.
Kaki-Bare	4	7	.250	45.7
Kench-Bare	2	7	.316	72.7
Kibe-Bare	1/0	7	.398	115.7
Kayak-Bare	2/0	7	.447	145.9
Kopeck-Bare	3/0	7	.502	183.7
Kittle-Bare	4/0	7	.563	231.5

Packaging: As required.

COPPERWELD-COPPER COMPOSITE CABLE
Extra-High Strength



Used for transmission, distribution and rural electrification. The high strength of the copper-weld wire in these conductors permits longer span construction, thereby effecting economies by requiring fewer pole or tower assemblies. The excellent weathering characteristics of copper and the high strength of steel give these conductors a strong advantage in all applications.

Specifications

Hard Drawn Copper Equivalent Area AWG & Type	No. and Dia. Wire		Net Wt. Lbs. M Ft.	
	EHS 30% Conductivity Copper-weld In.	Hard Drawn Copper In.		
8C	.179	†1x.0808	2x.0834	60.67
8A	.199	1x.1127	2x.0797	74.27
8D	.219	2x.1016	1x.1016	89.21
6A	.230	1x.1068	2x.1068	101.6
4A	.290	1x.1347	2x.1347	161.5
2A	.366	1x.1699	2x.1699	256.8

Electrical Characteristics

Hard Drawn Copper Equivalent Area AWG & Type	Geometric Mean Radius at 60 cps Ft.	Approx. Current Rating at 60 cps Amps.	Resistance per Conductor Mile at 25°C (77°F)	
			D-C Ohms	60 cps Ohms
8C	.00373	100	3.49	3.51
8A	.00394	100	3.49	3.51
8D	.00356	110	3.49	3.51
6A	.00479	140	2.20	2.21
4A	.00604	180	1.382	1.395
2A	.00763	240	.869	.882

†High strength Copperweld, 40% conductivity. Manufactured in accordance with ASTM Specification B229, latest edition. Packaging: As required.

Price on Application

**BARE ALUMINUM CONDUCTOR,
STEEL-REINFORCED (ACSR) CABLE**



ACSR cable for overhead transmission and distribution. High strength permits longer spans and fewer supports.

Code Word	Size AWG or MCM	No. Strands		O.D. In.	Net Wt. Lbs. M Ft.
		Alum.	Steel		
Turkey	6	6	1	.198	36.1
Thrush	5	6	1	.223	45.5
Swan	4	6	1	.250	57.4
Swanate	4	7	1	.257	67.0
Swallow	3	6	1	.281	72.5
Sparrow	2	6	1	.316	91.3
Sparate	2	7	1	.325	106.7
Robin	1	6	1	.355	115.2
Raven	1/0	6	1	.398	145.2
Quail	2/0	6	1	.447	813.1
Pigeon	3/0	6	1	.502	230.9
Penguin	4/0	6	1	.563	291.1
Waxwing	266.8	18	1	.609	289.7
Owl	266.8	6	7	.633	342.4
Partridge	266.8	26	7	.642	367.3
Ostrich	300	26	7	.680	412.8
Merlin	336.4	18	1	.684	365.3
Linnet	336.4	26	7	.721	463.1
Oriole	336.4	30	7	.741	527.1
Chickadee	397.5	18	1	.743	431.7
Ibis	397.5	26	7	.783	546.9
Lark	397.5	30	7	.806	622.8
Pelican	477	18	1	.814	518.0
Flicker	477	24	7	.846	614.5
Hawk	477	26	7	.858	656.8
Hen	477	30	7	.883	747.4
Osprey	556.5	18	1	.879	604.2
Parakeet	556.5	24	7	.914	716.8
Dove	556.5	26	7	.927	766.1
Eagle	556.5	30	7	.953	872.0
Peacock	605	24	7	.953	779.5
Squab	605	26	7	.966	832.6
Teal	605	30	19	.994	939.7
Swift	636	36	1	.930	645.6
Kingbird	636	18	1	.940	691.0
Rook	636	24	7	.977	819.2
Grosbeak	636	26	7	.990	875.3
Egret	636	30	19	1.019	988.2
Flamingo	666.6	24	7	1.000	858.6
Crow	715.5	54	7	1.036	921.4
Starling	715.5	26	7	1.051	984.8
Redwing	715.5	30	19	1.081	1110.8
Coot	795	36	1	1.040	807.0
Tern	795	45	7	1.063	896.0
Cuckoo	795	24	7	1.092	1024.0
Condor	795	54	7	1.093	1024.1
Drake	795	26	7	1.108	1094.3
Mallard	795	30	19	1.140	1235.1
Crane	874.5	54	7	1.146	1126.4
Canary	900	54	7	1.162	1159.0
Rail	954	45	7	1.165	1075.0
Cardinal	954	54	7	1.196	1228.5
Ortolan	1033.5	45	7	1.213	1165.0
Curlew	1033.5	54	7	1.246	1331.3
Bluejay	1113	45	7	1.259	1260.0
Finch	1113	54	19	1.293	1431.3
Bunting	1192.5	45	7	1.302	1349.0
Grackle	1192.5	54	19	1.338	1533.3
Bittern	1272	45	7	1.345	1440.0
Pheasant	1272	54	19	1.382	1635.3
Dipper	1351.5	45	7	1.386	1529.0
Martin	1351.5	54	19	1.424	1737.2
Bobolink	1431	45	7	1.427	1619.0
Plover	1431	54	19	1.465	1839.8
Nuthatch	1510.5	45	7	1.466	1709.0
Parrot	1510.5	54	19	1.506	1942.3
Lapwing	1590	45	7	1.502	1799.0
Falcon	1590	54	19	1.545	2044.5
Chukar	1780	84	19	1.602	2074.0
Bluebird	2156	84	19	....	2512.0
Kiwi	2167	72	7	....	2304.0

These data are approximate and subject to normal manufacturing tolerances.

**BARE ALUMINUM CONDUCTOR,
STEEL-REINFORCED (ACSR) CABLE**

(Continued)

Code Word	Size AWG or MCM	No. Strands		O.D. In.	Net Wt. Lbs. M Ft.
		Alum.	Steel		
Grouse	80	8	1	.367	149.0
Petrel	101.8	12	7	.461	254.1
Minorca	110.8	12	7	.481	276.6
Leghorn	134.6	12	7	.530	336.0
Guinea	159.0	12	7	.576	396.8
Dotterel	176.9	12	7	.607	441.4
Dorking	190.8	12	7	.631	476.3
Cochin	211.3	12	7	.663	527.5
Brahma	203.2	16	19	.714	676.8

Packaging: As required.

WEATHERPROOF WIRE AND CABLE

Copper and Aluminum Conductor



Soft, medium-hard or hard-drawn copper, or hard-drawn aluminum conductor with Polyethylene or Neoprene covering. Made to conform to the requirements of the American Society for Testing Materials specifications for Weather-Resistant Wire and Cable which are the recognized American standards.

Size AWG or MCM	No. Strands	Polyethylene Cover Thick. 64th In.	All- Aluminum Code Word	Net Wt. Lbs. M Ft.	
				Copper	Aluminum
12	1	2	.....	24	..
10	1	2	.....	37	..
9	1	2	.....	45	..
8	1	2	.....	56	..
6	1	2	Apple	87	32
4	1	2	Pear	136	48
3	1	3	.....	176	..
2	1	3	Cherry	219	79
1	1	3	.....	273	..
6	7	2	Plum	92	35
4	7	2	Apricot	143	53
2	7	3	Peach	230	87
1	7	3	Nectarine	287	107
1/0	7	4	Quince	367	140
2/0	7	4	Orange	458	172
3/0	7	4	Fig	572	211
4/0	7	4	Olive	715	260
1/0	19	4	.....	365	..
2/0	19	4	.....	455	..
3/0	19	4	Lemon	568	207
4/0	19	4	Pomegranate	710	255
250	19	4	Sassafras	834	297
266.8	19	4	Mulberry	.....	315
300	19	4	Basswood	996	351
336.4	19	4	Anona	.....	390
336.4	19	5	Crabapple	.....	406
350	19	4	Chinquapin	1157	405
397.5	19	5	Molles	.....	471
400	19	5	Ash	1334	475
450	37	5	Sumac	1487	520
477	37	5	Huckleberry	.....	550
500	37	5	Tupelo	1648	573

ACSR Conductor

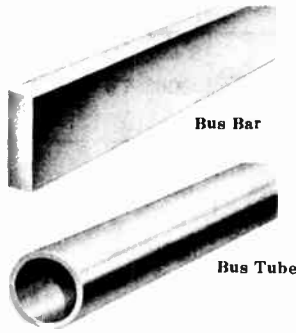
6	6/1	2	Walnut	.....	48
4	6/1	2	Butternut	.....	72
4	7/1	2	Hickory	.....	82
2	6/1	3	Pignut	.....	119
2	7/1	3	Beech	.....	135
1	6/1	3	Chestnut	.....	146
1/0	6/1	4	Almond	.....	191
2/0	6/1	4	Pecan	.....	235
3/0	6/1	4	Filbert	.....	290
4/0	6/1	4	Buckeye	.....	359

Note: Neoprene can be supplied instead of Polyethylene if specified.

Packaging: As required.

Price on Application

ALUMINUM BUS CONDUCTORS



Aluminum bus conductors are available in alloys with a range of electrical and mechanical properties which meet the requirements for all bus conductor applications.

MECHANICAL PROPERTIES

Alloy & Temper	Bar Thickness, In.	Tube Wall Thickness, In.	Minimum Strength, Lbs. Per Sq. In.	
			Tensile	Yield (Offset = 0.2%)
EC-H111	All	All	8,500	3,500
EC-H112	0.125-0.500	.....	11,000	6,000
	0.501-1.000	.....	10,000	4,000
	1.001-1.500	.....	9,000	3,500
EC-H12	0.125-1.000	.....	12,000	8,000
EC-H13	0.125-0.750	.....	13,000	11,000
2EC-T6	0.125-0.500	.....	29,000	25,000
2EC-T61	0.125-0.749	.....	20,000	15,000
	0.750-1.499	.....	18,000	11,000
	1.500-2.000	.....	15,000	8,000
2EC-T63	0.125-0.500	.....	27,000	22,000
2EC-T64	0.125-1.000	.....	15,000	8,000
2EC-T8	0.125-0.500	.....	29,000	25,000
6061-T6*	.....	All	38,000	35,000
6063-T6	.....	Up thru 0.500	30,000	25,000

*Extruded.

PHYSICAL PROPERTIES

	EC Grade		2EC-T6		2EC-T61		2EC-T63&2EC-T8		2EC-T64		6063-T6	6061-T6
	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Typical	Typical
Weight @ 20°C lbs./cu. in.	.....	.0977	.....	.0973	.....	.0973	.....	.0973	.....	.0973	.0973	.0976
Specific gravity @ 20°C	.....	2.703	.....	2.694	.....	2.694	.....	2.694	.....	2.694	2.694	2.703
Coefficient of linear expansion/°C	.....	.000023	.....	.000023	.....	.000023	.....	.000023	.....	.000023	.000023	.000023
Thermal conductivity @ 20°C, watts/sq. in./°C	6.0	.....	5.3	.....	5.5	.....	5.4	.....	5.7	.....	5.1	3.9
Electrical conductivity @ 20°C, % IACS†	62	.....	55	.....	57	.....	56	.....	59.5	.....	53	40
Electrical resistance @ 20°C, microhms/sq. in./ft.	13.137*	.....	14.81*	.....	14.29*	.....	14.55*	.....	13.69*	.....	15.37	20.36
Temperature coefficient of electrical resistance @ 20°C/°C	.00410	.....	.00363	.....	.00377	.....	.00370	.....	.00393	.....	.00350	.00264
Modulus of elasticity, lbs./sq. in.	.....	10x10 ⁶	.....	10x10 ⁶	.....	10x10 ⁶	.....	10x10 ⁶	.....	10x10 ⁶	10x10 ⁶	10x10 ⁶

*Maximum value of resistance corresponding to minimum value of conductivity.

†Minimum electrical conductivity at 20°C is established at levels where a minimum of 99% of the material is expected to conform.

Note: 2EC conforms with the chemical composition limits of Aluminum Alloy 6101.

NOMINAL DIMENSIONS AND WEIGHTS, RECTANGULAR BUS CONDUCTORS

Size In.	Square Corners		Rounded Corners		Full-Rounded Edge		Size In.	Square Corners		Rounded Corners		Full-Rounded Edge	
	Area Sq. In.	Wt. Lbs. Per Ft.	Area Sq. In.	Wt. Lbs. Per Ft.	Area Sq. In.	Wt. Lbs. Per Ft.		Area Sq. In.	Wt. Lbs. Per Ft.	Area Sq. In.	Wt. Lbs. Per Ft.	Area Sq. In.	Wt. Lbs. Per Ft.
1/4x1	.2500	.294	.2466	.290	.2366	.278	3/8x1 1/2	.5625	.662	.5591	.658	.5323	.626
1 1/4	.3125	.368	.3091	.364	.2991	.352	2	.7500	.882	.7466	.878	.7198	.847
1 1/2	.3750	.441	.3716	.437	.3616	.425	2 1/2	.9375	1.103	.9341	1.099	.9073	1.066
1 3/4	.4375	.515	.4341	.511	.4241	.499	3	1.1250	1.323	1.1216	1.319	1.0948	1.288
2	.5000	.588	.4966	.584	.4866	.572	3 1/2	1.3125	1.544	1.3091	1.540	1.2823	1.508
2 1/4	.5625	.662	.5591	.658	.5491	.646	4	1.5000	1.764	1.4966	1.760	1.4698	1.729
2 1/2	.6250	.735	.6216	.731	.6116	.719	5	1.8750	2.205	1.8716	2.201	1.8448	2.170
2 3/4	.6875	.809	.6841	.805	.6741	.793	6	2.2500	2.646	2.2466	2.642	2.2198	2.611
3	.7500	.882	.7466	.878	.7366	.866	8	3.0000	3.528	2.9966	3.524	2.9698	3.493
3 1/2	.8750	1.029	.8716	1.025	.8616	1.013	10	3.7500	4.410	3.7466	4.406	3.7198	4.374
4	1.0000	1.176	.9966	1.172	.9866	1.160	12	4.5000	5.292	4.4966	5.288	4.5698	5.374
5	1.2500	1.470	1.2466	1.466	1.2366	1.454	1/2x2	1.0000	1.176	.9966	1.172	.9464	1.113
6	1.5000	1.764	1.4966	1.760	1.4866	1.748	2 1/2	1.2500	1.470	1.2466	1.466	1.1964	1.407
7	1.7500	2.058	1.7466	2.054	1.7366	2.336	3	1.5000	1.764	1.4966	1.760	1.4464	1.701
8	2.0000	2.352	1.9966	2.348	1.9866	2.336	3 1/2	1.7500	2.058	1.7466	2.054	1.6964	1.995
10	2.5000	2.940	2.4966	2.936	2.4866	2.924	4	2.0000	2.352	1.9966	2.348	1.9464	2.289
5/8x1	.2813	.331	.2779	.327	.2643	.311	5	2.5000	2.940	2.4966	2.936	2.4464	2.877
1 1/2	.4219	.496	.4185	.492	.4049	.476	6	3.0000	3.528	2.9966	3.524	2.9464	3.465
2	.5625	.662	.5591	.658	.5455	.642	7	3.5000	4.116	3.4966	4.112	3.4464	4.053
2 1/2	.7031	.827	.6998	.823	.6862	.807	8	4.0000	4.704	3.9966	4.700	3.9464	4.641
3	.8438	.992	.8404	.988	.8268	.972	10	5.0000	5.880	4.9966	5.876	4.9464	5.817
4	1.1250	1.323	1.1216	1.319	1.1080	1.303	5/8x4	2.5000	2.940	2.4966	2.936	2.4162	2.841
5	1.4063	1.654	1.4029	1.650	1.3893	1.634	5	3.1250	3.675	3.1216	3.671	3.0412	3.576
6	1.6875	1.985	1.6841	1.981	1.6705	1.965	6	3.7500	4.410	3.7466	4.406	3.6662	4.311
							8	5.0000	5.880	4.9966	5.876	4.9162	5.781
							10	6.2500	7.350	6.2466	7.346	6.1662	7.251

Note: Unless otherwise specified, bars shall be finished with commercially square corners. When specified, bars shall be finished with corners rounded to a quarter circle, or with substantially uniform round edges.

These data are approximate and subject to normal manufacturing tolerances.

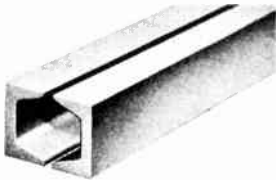
Area computations were based on nominal dimensions. Weights were computed using an aluminum weight of .098 pounds per cubic inch.

Price on Application

ALUMINUM BUS CONDUCTORS

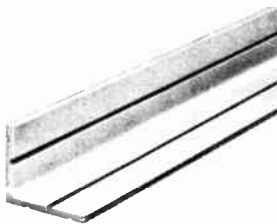
NOMINAL DIMENSIONS AND WEIGHTS

Structural-Shaped Channels



Depth In.	Web Thick. In.	Flange Width In.	Section Area Sq. In.	Wt. Lbs. Ft.	Max. Length Ft.	EC-H12	2EC-T61 & 2EC-T6
3	.170	1.410	1.21	1.42	50	X	X
	.258	1.498	1.47	1.73	50	X	X
4	.356	1.596	1.76	2.07	50	X	X
	.180	1.580	1.57	1.85	50	X	X
	.247	1.647	1.84	2.16	50	X	X
5	.320	1.720	2.13	2.50	50	X	X
	.190	1.750	1.97	2.32	50	X	X
6	.325	1.885	2.64	3.11	50	X	X
	.472	2.032	3.38	3.97	50	X	X
	.225	1.945	2.55	3.00	85	X	X
	.314	2.034	3.09	3.63	85	X	X
	.438	2.157	3.82	4.48	85	X	X

Structural-Shaped Angles



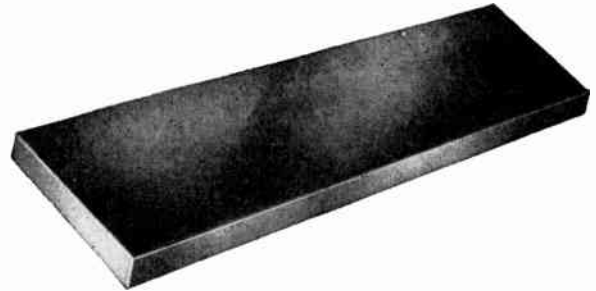
Size In.	Flange Thick. In.	Area Sq. In.	Wt. Lbs. Ft.	Max. Length Ft.	EC-H12	2EC-T61 & 2EC-T6
2 1/2 x 2	1/4	1.07	1.26	50	X	X
	3/8	1.55	1.83	50	X	X
2 1/2 x 2 1/2	1/4	1.19	1.40	50	X	X
	3/8	1.74	2.05	50	X	X
3 x 3	1/4	1.43	1.68	50	X	X
	3/8	2.10	2.47	50	X	X
4 x 3	1/4	1.69	1.99	85	X	X
	3/8	2.49	2.93	85	X	X
	1/2	3.25	3.83	85	X	X
	5/8	3.99	4.69	85	X	X

Tubular Bus Conductors

Pipe Size In.	Diameter Inches		Wall Thick. In.	Area Sq. In.	Wt. Lbs. Ft.	6063-T6 & 6061-T6
	Outside	Inside				
ASA Schedule 40 Pipe (Standard Pipe Size)						
1/2	.840	.622	.109	.250	.294	X
3/4	1.050	.824	.113	.333	.391	X
1	1.315	1.049	.133	.494	.581	X
1 1/4	1.660	1.380	.140	.668	.786	X
1 1/2	1.900	1.610	.145	.800	.940	X
2	2.375	2.067	.154	1.075	1.264	X
ASA Schedule 80 Pipe (Extra-Heavy Pipe Size)						
1	1.315	.957	.179	.639	.751	X
1 1/4	1.660	1.278	.191	.881	1.037	X
1 1/2	1.900	1.500	.200	1.068	1.256	X
2	2.375	1.939	.218	1.477	1.737	X

Area computations based on nominal dimensions. Weights computed using an aluminum weight of .098 pounds per cubic inch. These data are approximate and subject to normal manufacturing tolerances.

RECTANGULAR COPPER BUS BAR



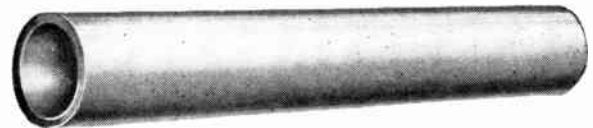
Minimum conductivity, 98%
 Made to conform to the requirements of ASTM specifications which are recognized American standards for this product.
 Processed to a uniform temper and to meet close dimensional and straightness requirements.
 Special sectional shapes furnished as specified.

Bar Size, In.		Cross Section Sq. In.	*Carrying Capacity Amperes	Wt., Lbs. Per Ft.
Width	Depth			
1/8	2	.250	250	.969
1/8	2 1/2	.313	313	1.211
1/8	3	.375	375	1.454
1/4	2	.500	500	1.938
1/4	2 1/2	.625	625	2.423
1/4	3	.750	750	2.907
1/4	4	1.000	1000	3.88
3/8	3	1.125	1125	4.36
3/8	4	1.500	1500	5.81

*Current density, 1000 amperes per square inch.

COPPER BUS TUBE

Extruded and Drawn — Seamless Copper



Minimum conductivity, 98%
 Made to conform to the requirements of ASTM specifications which are recognized American standards for this product.
 Tubular bus shapes are processed to a uniform temper and to meet close dimensional and straightness requirements.
 These shapes are characterized by greater mechanical rigidity per square inch of cross-section, and provided for better heat dissipation, decreased "skin effect," lower corona losses and better efficiency of transmission at power frequencies.
 Tubular shapes may be easily bent or flattened for application of terminals or to meet special installation requirements.

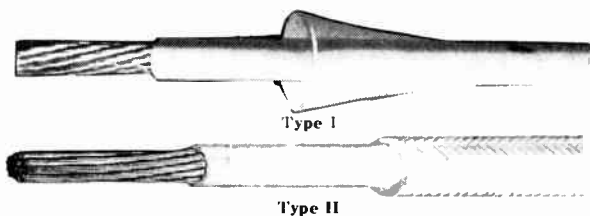
S.P.S. In.	O.D. In.	I.D. In.	Area C.M.	*Carrying Capacity Amperes	Wt. Lbs. Per Ft.
Standard Weight					
1/2	.840	.626	313,700	410	.955
3/4	1.050	.822	426,800	515	1.30
1	1.315	1.063	599,300	675	1.82
1 1/4	1.660	1.368	884,200	875	2.69
1 1/2	1.900	1.600	1,050,000	1025	3.20
2	2.375	2.063	1,384,700	1300	4.22
Extra Heavy					
1/2	.840	.542	411,800	460	1.25
3/4	1.050	.736	560,800	575	1.71
1	1.315	.951	824,800	750	2.51
1 1/4	1.660	1.272	1,137,600	1000	3.46
1 1/2	1.900	1.494	1,378,000	1150	4.19
2	2.375	1.933	1,904,100	1500	5.80

*Current density, 1000 amperes per square inch.

Price on Application

AIRCRAFT WIRE

MIL-W-5086A



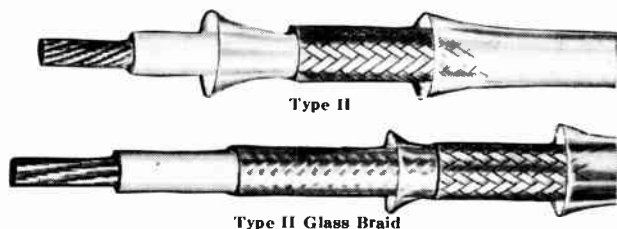
Single conductor of stranded tinned copper with vinyl thermoplastic insulation. Temperature ranges of -55°C to $+105^{\circ}\text{C}$. 600 volts.

Type I—White PVC insulation with clear nylon jacket, unshielded. Sizes: 22-12 AWG.

Type II—White PVC insulation, white glass braid with clear nylon jacket, unshielded. Sizes: 22-12 AWG.

Type II—White PVC insulation, white glass braid with lacquered nylon braid, unshielded. Sizes: 10-4/0 AWG.

MIL-C-7078A



Single conductor of stranded tinned copper with vinyl thermoplastic insulation. Temperature ranges of -55°C to $+105^{\circ}\text{C}$. 600 volts.

Type I—Colored PVC insulation with clear nylon jacket and braided tinned copper shield. Sizes: 22-12 AWG.

Type I—White PVC insulation, color coded glass braid, clear nylon jacket and braided tinned copper shield. Sizes: 22-12 AWG.

Type II—Color coded PVC insulation, clear nylon inner jacket, braided tinned copper shield and clear nylon jacket overall. Sizes: 22-12 AWG.

Type II—White PVC insulation, color coded glass braid, clear nylon inner jacket, braided tinned copper shield and clear nylon jacket overall. Sizes: 22-12 AWG.

MIL-W-7139B Class I



Single conductor of stranded silver plated copper, Teflon tape, Teflon impregnated fiberglass tape, Teflon impregnated fiberglass braid. Temperature ranges of -65°C to $+200^{\circ}\text{C}$. Sizes: 22-12 AWG. 600 volts.

MIL-W-8777B-MS-25471

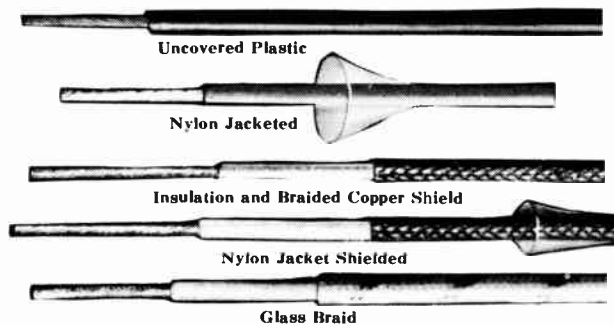


Single conductor of stranded silver coated copper, silicone rubber insulation, glass and dacron braid impregnated with hi-temp lacquer, white dacron braid and lacquer overall. Temperature ranges of -55°C to $+150^{\circ}\text{C}$. Sizes: 22-4 AWG. 600 volts.

These data are approximate and subject to normal manufacturing tolerances.

HOOK-UP WIRE — PLASTIC INSULATED

MIL-W-76B



Single conductor of stranded tinned copper with thermoplastic insulation. Multi-conductor available in most types.

Type LW—300 Volts

Uncovered Plastic—Light wall insulation, 80°C . Sizes: 30-20 AWG.

Nylon Jacket—Same as above with clear nylon jacket overall, 90°C . Sizes: 30-20 AWG.

Type MW—1000 Volts

Uncovered Plastic—Medium wall insulation, 80°C . Sizes: 24-6 AWG. Also available in solid.

Shielded—Same as above with tinned copper shield overall, 80°C . Sizes: 24-6 AWG.

Nylon Jacket Shielded—Same as above with clear nylon jacket over shield, 90°C . Sizes: 24-6 AWG.

Nylon Jacket—Same as uncovered with clear nylon jacket overall, 90°C . Sizes: 24-6 AWG.

Glass Braid—Same as uncovered with lacquered glass braid overall, 80°C . Sizes: 24-6 AWG.

Glass Braid Shielded—Same as above with tinned copper shield overall, 80°C . Sizes: 24-6 AWG.

Type HW—600 Volts

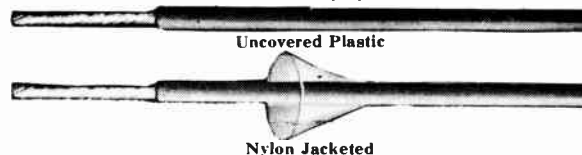
Uncovered Plastic — Heavy wall insulation, 80°C . Sizes: 14-2/0 AWG.

Type HW—2500 Volts

Uncovered Plastic — Heavy wall insulation, 80°C . Sizes: 22-16 AWG.

Glass Braid—Same as above with lacquered glass braid overall, 80°C . Sizes: 22-16 AWG.

MIL-W-16878D



Single conductor of stranded tinned copper with vinyl thermoplastic insulation. Also available with Teflon insulation. Multi-conductor available in most types.

Types B and B/N—600 Volts

Uncovered Plastic—.010" insulation, 105°C . Sizes: 32-14 AWG.

Nylon Jacket—Same as above with clear nylon jacket overall, 115°C . Sizes: 32-14 AWG.

Types C and C/N—1000 Volts

Uncovered Plastic—.016" insulation, 105°C . Sizes: 24-12 AWG.

Nylon Jacket—Same as above with clear nylon jacket overall, 115°C . Sizes: 24-12 AWG.

Types D and D/N—3000 Volts

Uncovered Plastic—.032" insulation, 105°C . Sizes: 24-1/0 AWG.

Nylon Jacket—Same as above with clear nylon jacket overall, 115°C . Sizes: 24-1/0 AWG.

Types E and EE—600 and 1000 Volts

Type E—Stranded silver plated copper with extruded Teflon insulation. .010" wall, 200°C . Sizes: 30-10 AWG. 600 Volts.

Type EE—Same as above but with .016" wall, 200°C . Sizes: 30-8 AWG. 1000 volts.

Price on Application

TYPES TFE AND FEP TEFLON*



Description

The continuous duty rating of almost all electrical equipment is set by the maximum permissible operating temperature of the wire and cable associated with it. These temperatures are in turn governed by the thermal resistance of the insulation used. The large scale development and acceptance of fluorocarbon dielectrics has launched an entirely new family of high temperature wire and cable.

A summary of the unique properties of Teflon TFE (tetrafluoroethylene) and Teflon FEP (fluorinated ethylene propylene) insulated wires and cables follows:

1. Excellent dielectric characteristics, including minimum interconductor capacitance and dielectric losses under a wide range of temperature, frequency and humidity.
2. Wide operating temperature range, from -67.8°C to $+200^{\circ}\text{C}$, or even higher.
3. Mechanical toughness and long flex life, even at very low temperatures.
4. Non-flammability, even in highly oxygenated atmospheres. Teflon will not absorb flammable materials such as gasoline and oil.
5. Chemical resistance to virtually all organic and inorganic materials, including missile fuels, hydraulic chemicals, LOX, and solvents.
6. Weight and size economy due to greater electrical load capabilities, permitting new advances in miniaturization designs.

Properties

Two types of Teflon are presently available—Teflon TFE and Teflon FEP. Major differences between the two are in their maximum operating temperature ranges. Teflon TFE operates up to 260°C (500°F); Teflon FEP operates up to 200°C (392°F) and has the advantage of being readily processed in long, continuous lengths in conventional extruders. From the operating temperatures, it follows that TFE has somewhat better solder resistance (it is completely unaffected by the process), but FEP does have adequate resistance to the temperatures attained in most soldering operations. It is important to note, too, that Teflon FEP is an ideal high temperature jacketing material, markedly superior to Teflon TFE tapes previously used for this purpose. With the exception of these differences, Teflon TFE and FEP can be considered to have almost identical properties.

*DuPont trademark.

These data are approximate and subject to normal manufacturing tolerances.

HOOK-UP WIRE — TEFLON* INSULATED

The following descriptions are limited to single conductor wires. Multi-conductor wires are available in most types. Consult nearest Graybar office for details.

MIL-W-22759



Type I—For general use where properties of TFE are required. Stranded coated copper conductor with Teflon TFE insulation. Available as silver coated conductor MS-21985 (WEP) or nickel coated conductor MS-21986 (WEP). Sizes: 28-18 AWG.

MIL-W-16878D



TFE Insulation Only



Insulation and Braided Copper Shield



Insulation, Braided Copper Shield and Fiberglass Overbraid

These wires are suited for use as low-loss hook-up wire in electronic equipment operating over temperature ranges of -65°C to $+260^{\circ}\text{C}$. Conductors are stranded copper with either silver, nickel or tin coating. Insulation may be either Teflon TFE or FEP (or PVC). A braided shield of coated copper is optional. Outer coverings and jackets of nylon, vinyl or Teflon are available. Nylon or fiberglass overbraids may be specified.

Type	Teflon Insulation	Voltage	AWG Sizes
ET	TFE	250	32-20
E	TFE	600	32-10
EE	TFE	1000	32-8
KT	FEP	250	32-20
K	FEP	600	32-10
KK	FEP	1000	32-8

NAS-703



This wire is suited both as a general purpose and aircraft wire at temperature ranges of -55°C to $+200^{\circ}\text{C}$. Conductors are silver coated stranded copper with Teflon TFE primary insulation.

Class A—1000 Volts (Sizes: 32-8 AWG)		Class C—600 Volts (Sizes: 32-14 AWG)	
Type U—Unshielded	Type S—Braided Silver Coated Shield	Type U—Unshielded	Type S—Shielded
Type SJ—Shielded with TFE Jacket.		Type SJ—Shielded and Jacketed	

U.I. Appliance Wire



These wires are recommended for use in environments where corrosive fumes, high humidity, or temperatures in excess of 100°C exist. Conductors are silver or nickel coated copper, solid or stranded with Teflon TFE insulation. Sizes: stranded 26 to 16 AWG; special 14-10 AWG.

300 Volts	600 Volts
Style 1164, 150°C	Style 1198, 150°C
Style 1180, 200°C	Style 1199, 200°C

*DuPont trademark.

Price on Application

HOOK-UP WIRE — TEFLON* INSULATED
(continued)

The following descriptions are limited to single conductor wires. Multi-conductor wires are available in most types. Consult nearest Graybar office for details.

U.L. EDP



Where UHF pulse circuitry is employed under conditions of high temperature and humidity or corrosive environments, these wires will provide high reliability. Silver coated solid or stranded conductor with Teflon TFE insulation. Tinned conductor with Teflon FEP insulation. Sizes: 26-20 AWG. No voltage rating.

TFE		FEP	
Style 1212,	80°C	Style 1226,	80°C
Style 1213,	105°C	Style 1227,	105°C

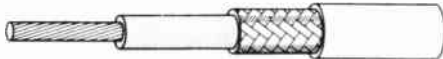
U.L. EDP With Nylon Jacket



These wires are recommended for wiring of computer back panelboards. Particularly adapted to "wire-wrap" applications. Construction similar to Style 1227 except with extruded nylon jacket. Sizes: 26-20 AWG. No voltage rating.

Style 1192, FEP, 105°C.

MIL-C-17C and MIL-C-8721
Miniature Coaxial Cable



The properties of Teflon make possible dramatic savings in weight and space in RF applications particularly when severe environmental conditions are encountered. A Teflon core dielectric coaxial cable can carry four times the power as polyethylene cables of the same cross section.

Cables are available in a variety of combinations. Please refer to nearest Graybar office for characteristics of any type construction.

Inner Conductor: Silver coated, copper covered steel; silver coated, cadmium bronze.

Primary Insulation: Extruded TFE; extruded or foam FEP.

Shield: Silver coated copper braid.

Outer Covering: Extruded nylon, nylon braid, vinyl, KEL-F, TFE or FEP or silicone impregnated glass braid.

Characteristic Impedance: 50, 70, 75, 93 or 95 ohms.

*DuPont trademark.

300-OHM TWIN LEAD TELEVISION AND FM RECEIVER ANTENNA CABLE



Stranded copper conductor, parallel, with low-loss Polyethylene insulation. Suitable for use as television and FM receiver antenna lead-in wires. Available in brown, silver and clear Polyethylene.

Size AWG	No. Conduc- tors	No. Strands	O.D. In.	Net Wt. 1 lb. M Ft.
20	2	7x28	.100x.405	22
20	2	7x28	.055x.350	17
22	2	7x30	.055x.335	12

Packaging: 500' and 1000' spool.

These data are approximate and subject to normal manufacturing tolerances.

MICROPHONE CABLE



Plastic Jacket—One or two conductors of stranded tinned copper with white polyethylene insulation, braided or spiral wrapped tinned copper shield, gray PVC jacket overall. Sizes: 26-20 AWG.



Rubber and Neoprene Jacket—One or two conductors of stranded tinned copper with color coded rubber insulation, cotton wrap, braided tinned copper shield, cotton wrap, rubber or neoprene jacket overall. Sizes: 20-18 AWG.



Low Capacity—One or two conductors of stranded tinned copper with white foam polyethylene insulation, braided tinned copper shield, chrome gray PVC jacket overall. Sizes: 26-22 AWG.

AUDIO CABLE



Unshielded Solid—Two to four solid tinned copper conductors with color coded PVC insulation, gray PVC jacket overall. Sizes: 22-16 AWG.

Unshielded Stranded—Two to sixty stranded tinned copper conductors with color coded PVC insulation, gray PVC jacket overall. Sizes: 22-18 AWG.



Spiral Shield—One to six stranded tinned copper conductors with color coded PVC insulation, spiral wrapped copper shield, gray PVC jacket overall. Sizes: 22-12 AWG.



Braided Shield—One to four stranded tinned copper conductors with color coded PVC insulation, braided copper shield, gray PVC jacket overall. Sizes: 22-12 AWG.

Price on Application

ELECTRONIC CABLES

RG/U Type	Construction Code	Inner Conductor			Dielectric O.D. Mils Nominal	Braid		Jacket		Pounds per 1000'
		Material	Strands	O.D. Mils Nominal		Material	Maximum O.D. Mils	Material	Maximum O.D. Mils	
5	E	CU	1	50.8	185	CU (2)	264	V	339	83
5A	E	CuAg	1	51.0	181	CuAg (2)	260	NCV	335	82
5B	E	CuAg	1	51.0	181	CuAg (2)	260	NCV	335	83
6	E	CUW	1	28.5	185	CuAg	264	NCV	339	78
6A	E	CUW	1	28.5	185	CuAg-Cu	264	NCV	336	74
7	R	CU	1	36.0	250	Cu	280	NCV	379	78
8	B	CU	7	85.5	285	Cu	340	V	415	103
8A	B	CU	7	85.5	285	Cu	340	NCV	415	99
9	E	CuAg	7	85.5	280	CuAg-Cu	355	NCV	430	130
9A	E	CuAg	7	85.5	280	CuAg (2)	355	NCV	430	130
9B	E	CuAg	7	85.5	280	CuAg (2)	355	NCV	430	126
10	C	CU	7	85.5	285	Cu	340	NCV	475*	134
10A	C	CU	7	85.5	285	Cu	340	NCV	475*	121
11	B	TCu	7	47.7	285	Cu	340	V	415	89
11A	B	TCu	7	47.7	285	Cu	340	NCV	412	89
12	C	TCu	7	47.7	285	Cu	340	NCV	475*	105
12A	C	TCu	7	47.7	285	Cu	340	NCV	475*	113
13	E	TCu	7	47.7	280	Cu (2)	355	NCV	430	116
13A	E	TCu	7	47.7	280	Cu (2)	355	NCV	430	114
14	E	CU	1	102.0	370	Cu	463	NCV	558	204
14A	E	CU	1	102.0	370	Cu (2)	463	NCV	558	201
17	B	CU	1	188.0	680	Cu	760	NCV	885	440
17A	B	CU	1	188.0	680	Cu	760	NCV	885	446
18	C	CU	1	188.0	680	Cu	760	NCV	945*	487
18A	C	CU	1	188.0	680	Cu	760	NCV	945*	496
19	B	CU	1	250.0	910	Cu	990	NCV	1,135	716
19A	B	CU	1	250.0	910	Cu	990	NCV	1,135	720
20	C	CU	1	250.0	910	Cu	990	NCV	1,195*	777
20A	C	CU	1	250.0	910	Cu	990	NCV	1,195*	786
21	E	TA	1	50.8	185	CuAg (2)	264	NCV	339	80
21A	E	TA	1	50.8	185	CuAg (2)	264	NCV	339	80
22	2 parallel cond.	CU (2)	7	45.6	285	TCU	340	NCV	415	91
22B	AA	CU (2)•	7	45.6	285	Cu (2)	355	NCV	430	132
23A	Y	CU (2)•	7	85.5	380	Cu (3)	830x440	NCV	670x965	360
24A	Z	CU (2)•	7	85.5	380	Cu (3)	830x440	NCV	735x1.034*	450
34	B	CU	7	85.5	455	Cu	540	V	640	216
34A	B	CU	7	74.7	460	Cu	535	NCV	640	216
34B	B	CU	7	74.7	460	Cu	535	NCV	640	216
35	C	CU	1	114.0	680	Cu	760	NCV	945*	429
35B	C	CU	1	104.5	680	Cu	760	NCV	945*	440
55	E	CU	1	32.0	116	TCU (2)	176	PE	206	32
55A	E	CuAg	1	35.0	116	CuAg (2)	176	NCV	216	31
55B	E	CuAg	1	32.0	116	TCU (2)	176	PE (HI/MOL/WT)	206	32
58A	B	TCu	19	36.0	116	TCU	150	NCV	200	24
58C	B	TCu	19	37.5	116	TCU	150	NCV	199	25
59	B	CUW	1	25.3	146	Cu	191	V	250	36
59A	B	CUW	1	23.0	146	Cu	191	NCV	248	36
59B	B	CUW	1	23.0	146	Cu	191	NCV	246	35
62	R	CUW	1	25.3	146	Cu	191	NCV	250	36
62A	R	CUW	1	25.3	146	Cu	191	NCV	249	34
62B	R	CUW	7	24.0	146	Cu	191	NCV	249	35
63	R	CUW	1	25.3	285	Cu	340	NCV	415	88
63B	R	CUW	1	25.3	285	Cu	340	NCV	415	78
65A	U	CU	1	8 (spiral)	285	Cu	340	NCV	415	90
71	S	CUW	1	25.3	146	TCU (2)	190	PE	250	40
71A	S	CUW	1	25.3	146	TCU-(2)	208	NCV	250	40
71B	S	CUW	1	25.3	146	TCU (2)	208	PE (HI/MOL/WT)	250	38
74	F	Cu	1	102.0	370	Cu	463	NCV	615*	236
74A	F	CU	1	102.0	370	Cu (2)	463	NCV	615*	232
79	T	CUW	1	25.3	285	Cu	340	NCV	475*	118
79B	T	CUW	1	25.3	285	Cu	340	NCV	475*	100
86	CC	Cu (2)•	7	85.5	650x300	.....	.....	.....	.....	103
87A	N	CuAg	7	96.0	285	CuAg (2)	355	FGB (2)	435	153
94	N	CuAg	19	113.0	292	Cu (2)	380	FGB (2)	455	192

Legend

- (•) Center strand of one conductor tinned for identification
- (*) Dimension given is over armor
- (*) Over Braided Teflon Filament
- (#) Plus 1 Teflon Tape Moisture Seal
- (†) Plus 2 Teflon Tape Moisture Seals
- (‡) Teflon Wrap
- (**) Plus Dacron Braid
- (2) Double Braid or 2-Conductor
- (3) Triple Braid or 3-Conductor
- (Cu) Copper
- (CuAg) Silver Plated Copper

Legend

- (CUW) Copperweld
- (CuWag) Silver Plated Copperweld
- (SCB) Silver Plated Cadmium Bronze
- (TA) Tophet A high resistance conductor
- (TCu) Tinned Copper
- (FGB) Fiberglass Braid
- (PE) Polyethylene
- (NCV) Non-Contaminating Vinyl
- (TE) Extruded Teflon
- (V) Polyvinyl Chloride

Refer to following page for illustrations.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

ELECTRONIC CABLES (continued)

RG/U Type	Construction Code	Inner Conductor			Dielectric O.D. Mils Nominal	Braid		Jacket		Pounds per 1000'
		Material	Strands	O.D. Mils Nominal		Material	Maximum O.D. Mils	Material	Maximum O.D. Mils	
108A	X	TCu (2)•	7	37.8	079	TCu	177	NCV	245	19
111A	BB	Cu (2)•	7	45.6	285	TCU (2)	355	NCV	490*	155
115	N	CuAg	7	84.0	250†	CuAg (2)	360†	FGB (2)	385	138
115A	Not Illus.	CuAg	7	84.0	255†	CuAg (2)	365†	FGB (3)	430	149
116	P	CuAg	7	96.0	280	CuAg (2)	395†	FGB (2)	490*	175
117	K	Cu	1	188.0	620	Cu	718†	FGB (2)	745	525
118	M	Cu	1	188.0	620	Cu	718†	FGB (2)	795*	585
119	N	Cu	1	102.0	332	Cu (2)	454†	FGB (2)	475	225
120	P	Cu	1	102.0	332	Cu (2)	454†	FGB (2)	525*	280
122	B	TCU	27	32.0	096	TCU	126	NCV	165	16
140	J	CuWag	1	25.0	146	CuAg	216†	FGB (2)	241	45
141	G	CuWag	1	35.9	116	CuAg	166#	FGB	195	30
141A	G	CuWag	1	39.0	116	CuAg	166#	FGB	195	32
142	L	CuWag	1	35.9	116	CuAg (2)	191#	FGB	206	45
142A	L	CuWag	1	39.0	116	CuAg (2)	191#	FGB	206	46
142B	E	CuWag	1	39.0	116	CuAg (2)	171	TE	200	43
143	N	CuWag	1	57.0	185	CuAg (2)	290†	FGB (2)	332	108
143A	N	CuWag	1	59.0	185	CuAg (2)	290†	FGB (2)	332	104
144	H	CuWag	7	53.7	285	CuAg	370†	FGB (2)	420	120
161	B	SCB	7	12.0	57	CuAg	77	Nylon	90	5.8
165	K	CuAg	7	96.0	285	CuAg	380†	FGB (2)	420	140
166	M	CuAg	7	96.0	285	CuAg	380†	FGB (2)	470*	172
174	B	CuW	7	18.9	60	TCU	88	V	105	8
178	B	CuWag	7	12.0	36	CuAg	57	KEL-F	75	5.8
178A	B	CuWag	7	12.0	34	CuAg	54	KEL-F	75	5.2
178B	B	CuWag	7	12.0	34	CuAg	54	TE	75	5.2
179	B	CuWag	7	12.0	57	CuAg	77	KEL-F	91	8
179A	B	CuWag	7	12.0	63	CuAg	84	KEL-F	105	9.6
179B	B	CuWag	7	12.0	63	CuAg	84	TE	105	9.6
180	B	CuWag	7	12.0	45.5	CuAg	119	KEL-F	141	25.9
180A	B	CuWag	7	12.0	102	CuAg	124	KEL-F	145	17.5
180B	B	CuWag	7	12.0	102	CuAg	124	TE	145	17.5
187	B	CuWag	7	12.0	63	CuAg	84	TE	110	10.5
187A	B	CuWag	7	12.0	63	CuAg	84	TE	110	10.6
188	B	CuWag	7	20.1	60	CuAg	81	TE	110	10.9
188A	B	CuWag	7	20.1	60	CuAg	81	TE	110	10.9
195	B	CuWag	7	12.0	102	CuAg	124	TE	155	19
195A	B	CuWag	7	12.0	102	CuAg	124	TE	155	19
196	B	CuWag	7	12.0	34	CuAg	54	TE	80	5.8
196A	B	CuWag	7	12.0	34	CuAg	54	TE	80	5.9
209	Not Illus.	CuAg	19	190.0	500*†	CuAg (2)	585	FGB/SIL	750**	404
210	Not Illus.	CuWag	1	25.3	146*†	CuAg	211#	FGB (2)	250	44
211	K	Cu	1	190.0	620	Cu	718†	FGB (2)	745	530
211A	K	Cu	1	190.0	620	Cu	718†	FGB (2)	745	516
212	E	CuAg	1	55.6	185	CuAg (2)	265	NCV	336	85
213	B	Cu	7	89.0	285	Cu	340	NCV	412	104
214	E	CuAg	7	89.0	285	CuAg (2)	360	NCV	432	130
215	C	Cu	7	89.0	285	Cu	340	NCV	475*	122
216	E	TCu	7	47.7	285	Cu (2)	360	NCV	432	114
217	E	Cu	1	106.0	370	Cu (2)	463	NCV	555	202
218	B	Cu	1	195.0	680	Cu	760	NCV	880	447
219	C	Cu	1	195.0	680	Cu	760	NCV	945*	498
220	B	Cu	1	260.0	910	Cu	990	NCV	1135	725
221	C	Cu	1	260.0	910	Cu	990	NCV	1195*	788
222	E	TA	1	55.6	185	CuAg (2)	264	NCV	336	81
223	E	CuAg	1	35.0	116	CuAg (2)	176	NCV	216	31
224	F	Cu	1	106.0	370	Cu (2)	463	NCV	615*	232
225	N	CuAg	7	93.6	285	CuAg (2)	400†	FGB (2)	440	153
227	P	CuAg	7	93.6	285	CuAg (2)	400†	FGB (2)	490*	175
228	M	Cu	1	190.0	620	Cu	718†	FGB (2)	795*	585
235	Not Illus.	CuAg	7	84.0	255†	CuAg (2)	345#	FGB+SIL	470**	156.8
302	B	CuWag	1	25.0	146	CuAg	176	TE	206	31.8
303	B	CuWag	1	39.0	116	CuAg	146	TE	175	30
304	E	CuWag	1	59.0	185	CuAg (2)	250	TE	285	88.8
316	B	CuWag	7	20.1	60	CuAg	81	TE	102	12

RG/U Type	Construction Code	Military Spec. No.	Inner Conductor		O.D. Mils Nominal
			Material	Strands	
156	DD	MIL-C-17/101	TCu	7 #21	85.5
157	EE	MIL-C-17/102	TCu	19 #24	101.0
158	EE	MIL-C-17/103	TCu	37 #21	199.0

Legend

- (•) Center strand of one conductor tinned for identification
- (*) Dimension given is over armor
- (*) Over Braided Teflon Filament
- (#) Plus 1 Teflon Tape Moisture Seal
- (†) Plus 2 Teflon Tape Moisture Seals
- (‡) Teflon Wrap
- (**) Plus Dacron Braid

Legend

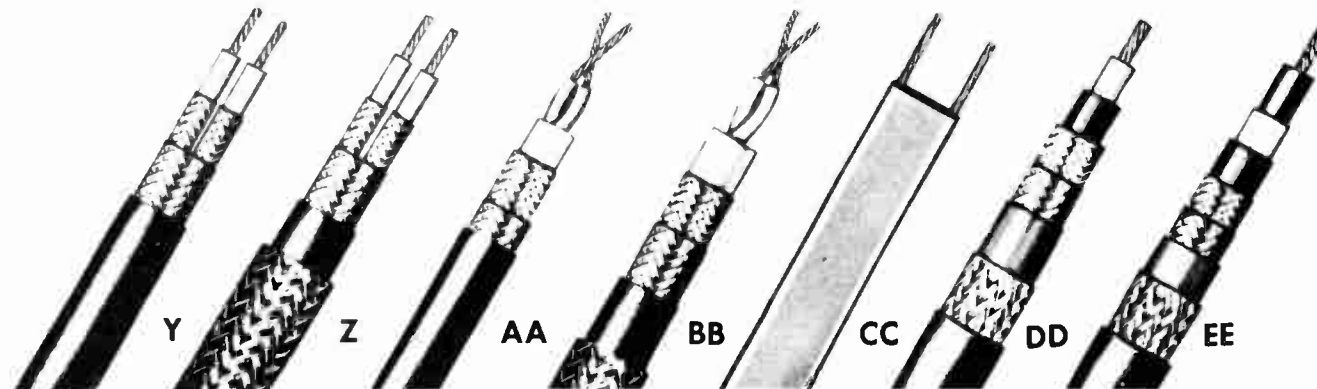
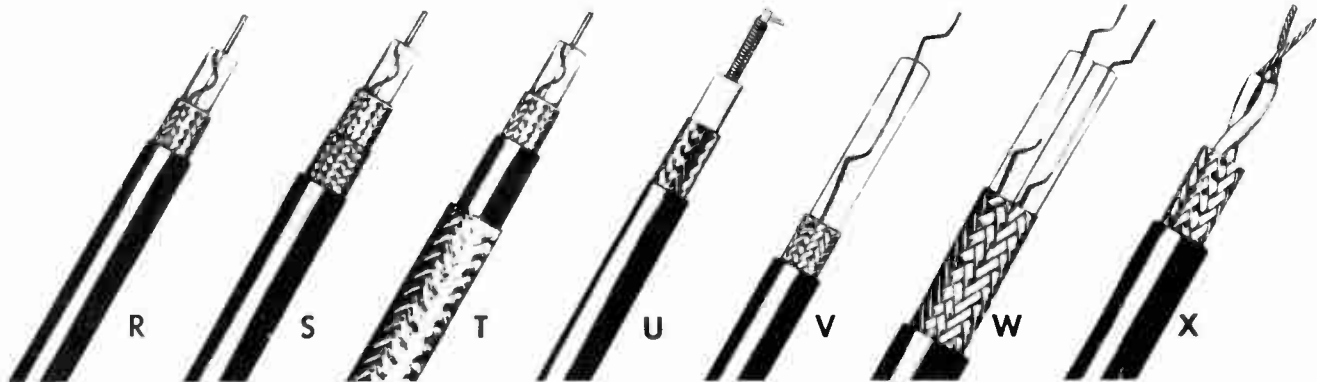
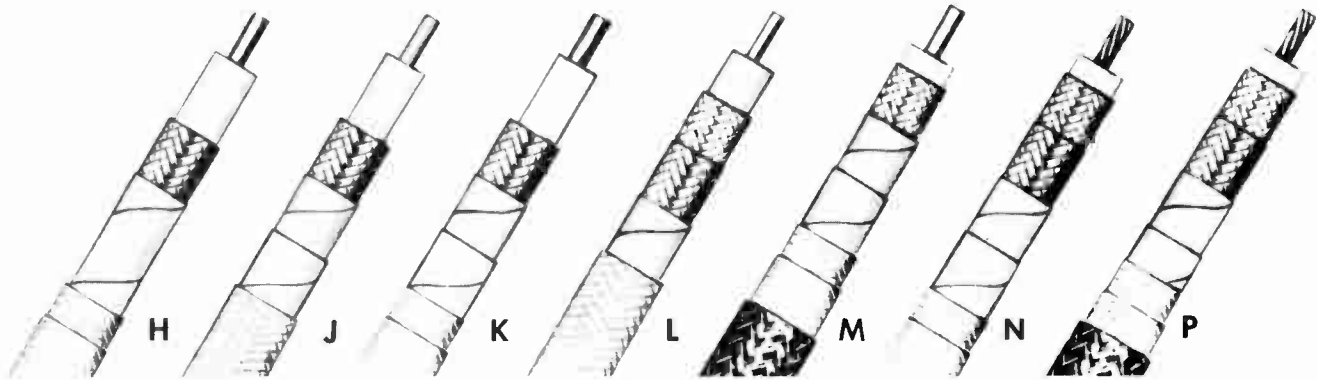
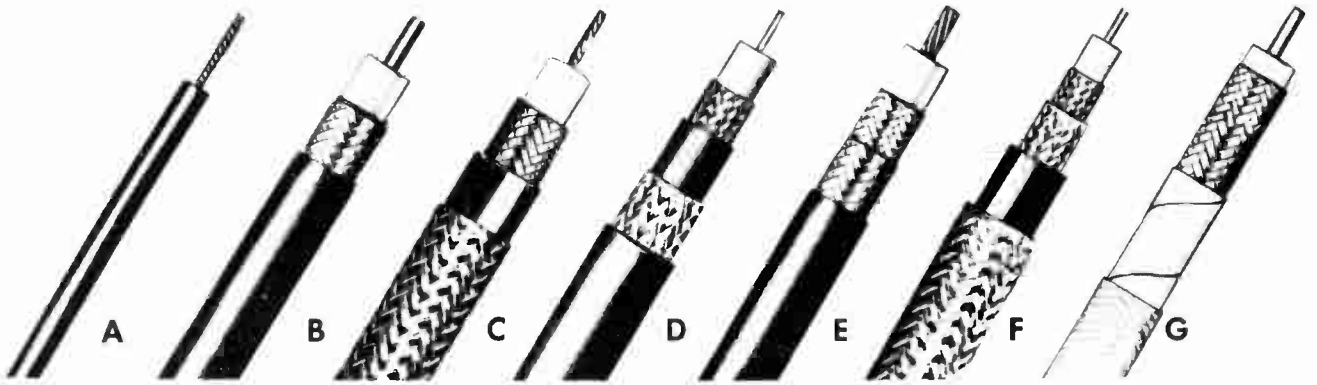
- (2) Double Braid or 2-Conductor
- (3) Triple Braid or 3-Conductor
- (Cu) Copper
- (CuAg) Silver Plated Copper
- (CuW) Copperweld
- (CuWag) Silver Plated Copperweld
- (SCB) Silver Plated Cadmium Bronze
- (TA) Tophet A high resistance conductor
- (TCu) Tinned Copper
- (FGB) Fiberglass Braid
- (PE) Polyethylene
- (NCV) Non-Contaminating Vinyl
- (TE) Extruded Teflon
- (V) Polyvinyl Chloride

Refer to following page for illustrations.

These data are approximate and subject to normal manufacturing tolerances.

Price on Application

ELECTRONIC CABLES
(continued)



RIGID CONDUIT



Available in hot dipped galvanized or electro-galvanized. Furnished in 10-foot lengths with both ends threaded, with coupling screwed on one end.

Also available in black enameled.

Size In.	Diameter Inches		Thick-ness In.	Threads Per In.	Feet Per Bundle	Wt. Lbs. Per 100'
	External	Internal				
1/2	.840	.622	.109	14	50	79
3/4	1.050	.824	.113	14	50	105
1	1.315	1.049	.133	11 1/2	50	153
1 1/4	1.660	1.380	.140	11 1/2	30	201
1 1/2	1.900	1.610	.145	11 1/2	30	249
2	2.375	2.067	.154	11 1/2	10	332
2 1/2	2.875	2.469	.203	8	10	527
3	3.500	3.068	.216	8	10	682
3 1/2	4.000	3.548	.226	8	10	831
4	4.500	4.026	.237	8	10	972
5	5.563	5.047	.258	8	10	1314
6	6.625	6.065	.280	8	10	1745

CONDUIT NIPPLES



Conduit Size Inches	Length Inches	Carton Pkg.	Std. Per 100	Wt. Lbs. Per 100
1/2	1 1/2 -close	50	500	6
1/2	1 1/2 -short	50	200	8
1/2	2	25	250	11
1/2	3	25	100	18
1/2	4	25	100	25
1/2	5	25	100	32
1/2	6	25	100	39
1/2	8	25	25	50
3/4	1 3/4 -close	25	250	9
3/4	2 -short	25	250	14
3/4	3	25	100	24
3/4	4	25	100	34
3/4	5	10	100	45
3/4	6	10	50	54
3/4	8	10	10	64
1	1 1/2 -close	25	100	16
1	2 -short	25	100	23
1	3	20	100	36
1	4	10	50	53
1	5	10	50	60
1	6	10	50	81
1	8	10	10	100
1 1/4	1 5/4 -close	20	100	24
1 1/4	2 1/2 -short	10	50	43
1 1/4	3	10	50	51
1 1/4	4	5	25	76
1 1/4	5	5	25	96
1 1/4	6	5	25	114
1 1/4	8	10	10	128
1 1/2	1 3/4 -close	10	50	33
1 1/2	2 1/2 -short	10	50	51
1 1/2	3	5	50	61
1 1/2	4	5	25	88
1 1/2	5	5	25	109
1 1/2	6	5	25	133
1 1/2	8	5	5	105
2	2 -close	5	25	50
2	2 1/2 -short	5	25	69
2	3	5	25	82
2	4	5	5	100
2	5	5	5	138
2	6	5	5	156
2	8	5	5	230
2 1/2	2 1/2 -close	5	5	80
2 1/2	3 -short	5	5	110
2 1/2	4	5	5	160
2 1/2	5	5	5	230
2 1/2	6	5	5	258
2 1/2	8	5	5	360
3	2 5/4 -close	5	5	115
3	3 -short	5	5	168
3	4	5	5	213
3	5	5	5	280
3	6	5	5	343
3	8	5	5	453

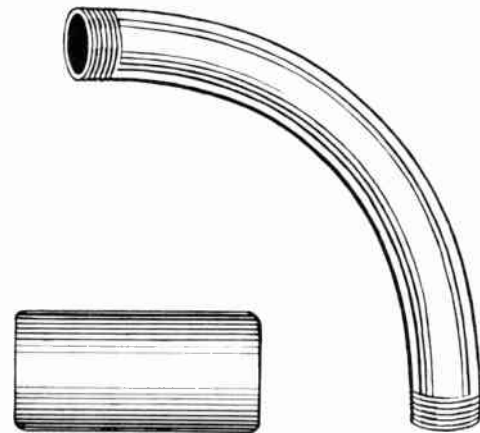
Also available in 4", 5" and 6"; and in black enameled and aluminum.

**RIGID CONDUIT AND FITTINGS
RUNNING THREAD**



Pipe Size	Lengths Per Carton	Lineal Ft. Per Carton	Approx. Wt. Lbs. 100 Ft.
1/8"	34	102	15
1/4"	34	102	25
3/8"	34	102	35
1/2"	20	60	61
3/4"	25	75	76
1"	20	60	110
1 1/4"	12	36	160
1 1/2"	10	30	200
2"	8	24	260
2 1/2"	4	12	430
3"	3	9	550
3 1/2"	2	6	640
4"	2	6	830
5"	1	3	1080
6"	1	3	1440

COUPLINGS AND ELBOWS



Available in hot dipped galvanized or electro-galvanized.

Also available in black enameled or Sheraduct. Special large radius elbows available.

Couplings		Elbows		
Size of Pipe, In.	Wt. Lbs. Per 100	Radius Inches	Offset, Inches	Wt. Lbs. Per 100
1/2	11.6	4.000	6.500	82
3/4	20.9	4.500	7.250	109
1	34.3	5.750	8.625	201
1 1/4	53.5	7.250	10.000	313
1 1/2	74.3	8.250	11.000	441
2	120.8	9.500	13.625	707
2 1/2	172.0	10.500	15.687	1411
3	249.8	13.000	17.750	1850
3 1/2	424.1	15.000	20.000	2979
4	474.1	16.000	21.312	3528
5	700.0	24.000	29.000	6575
6	750.0	30.000	36.500	9645

Price on Application

"NATIONAL ELECTRIC"
SHERARDUCT — SHERARDIZED



Full Weight — Threaded
Listed by Underwriters' Laboratories, Inc.

Sherarduct differs from other types of zinc-coated conduit in its superior protection against rust. In Sherardizing, the zinc coating thus obtained is not merely a covering, it is alloyed with the steel, on the outside and on the thread. Sherarduct is further protected by a coating of MVC-23 Poly-Vinyl, applied over the zinc. This resists acids or similar fumes, which zinc alone will not withstand. On account of the heat to which it is subjected in Sherardizing, Sherarduct is exceptionally easy to bend without flaking or cracking.

Nom. Inside Diam., In.	External Diam., In.	Internal Diam., In.	Wall Thick., In.	Min. Wt. Lbs. Per 1000'	Threads Per Inch
1/2	.840	.622	.109	810	14
3/4	1.050	.824	.113	1100	14
1	1.315	1.049	.133	1580	11 1/2
1 1/4	1.660	1.380	.140	2070	11 1/2
1 1/2	1.900	1.610	.145	2590	11 1/2
2	2.375	2.067	.154	3400	11 1/2
2 1/2	2.875	2.469	.203	5500	8
3	3.500	3.068	.216	7100	8
3 1/2	4.000	3.548	.226	8600	8
4	4.500	4.026	.237	10100	8
5	5.563	5.047	.258	14000	8
6	6.625	6.065	.280	18800	8

REPUBLIC
PLASTIC COATED GALVITE®
RIGID STEEL CONDUIT



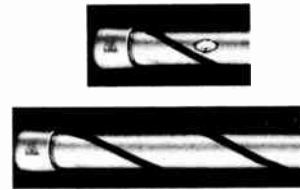
Plastic Coated GALVITE Conduit is available for extreme corrosion resistant installations where code requirements necessitate the use of heavy wall conduit. Plastic Coated GALVITE is furnished in standard trade sizes 1/2" to 6" inclusive. Stocks of GALVITE are carried in many large distribution centers for your convenience. Should be installed in accordance with provisions of the National Electrical Code as stated in Article 346 for rigid conduit.

Size In.	Ext. Dia. In.	Wt. Lbs. Per 1000' Inc. Pkg.	Feet Per Std. Pkg.
1/2	.880	924	100
3/4	1.090	1216	50
1	1.355	1748	50
1 1/4	1.700	2330	30
1 1/2	1.940	2909	10
2	2.439	3947	10
2 1/2	2.939	5924	10
3	3.564	7621	10
3 1/2	4.064	9589	10
4	4.564	11062	10
5	5.627	15483	10
6	6.689	20362	10

Furnished in standard 10-foot lengths with one coupling.
NOTE: Couplings for GALVITE Rigid Conduit will be furnished uncoated.

BYERS WROUGHT IRON CONDUIT

U/L and Non-Labeled



Wrought Iron rigid electrical conduit assures users safety, mechanical protection and uninterrupted service in installations where severe corrosion conditions exist — underground, on bridges, underwater, for airport runway lighting, tunnels, and buried in concrete.

Underwriters' Label—Produced from pipe manufactured and galvanized in accordance with ASTM A-72 specification, latest edition. Available in sizes 1/2" through 6". Complies with all requirements of the Underwriters' Laboratories for rigid metallic conduit.

Non-Labeled — Meets the requirements of ASTM A-72 specification and is furnished black and galvanized in full-random and half-random lengths, sizes 1/2" through 12". Can be supplied with a standard coupling or a conduit coupling. Also available in plain ends for welding.

Nom. Size In.	—Diameter, Inches— Exterior Interior	Wall Thick-ness In.	Wt. Lbs. Per Ft.	Threads Per In.
1/2	.840 .617	.111	.85	14
3/4	1.050 .819	.115	1.13	14
1	1.315 1.043	.136	1.68	11 1/2
1 1/4	1.660 1.374	.143	2.28	11 1/2
1 1/2	1.900 1.604	.148	2.73	11 1/2
2	2.375 2.060	.158	3.68	11 1/2
2 1/2	2.875 2.460	.208	5.82	8
3	3.500 3.059	.221	7.62	8
3 1/2	4.000 3.538	.231	9.20	8
4	4.500 4.016	.242	10.89	8
5	5.563 5.036	.263	14.81	8
6	6.625 6.053	.286	19.18	8

Non-Labeled

8	8.625	8.059	.283	25.55	8
10	10.750	10.181	.284	32.75	8
12	12.750	12.077	.336	45.45	8

Couplings and Elbows

Nom. Size In.	Couplings		Radius In.	Elbows	
	Nom. O.D. In.	Nom. Lgth. In.		Carton	Wt. Lbs. Per 100
1/2	1.063	1 1/8	4	50	77
3/4	1.313	1 5/8	4 1/2	50	102
1	1.576	2	5 3/4	20	187
1 1/4	1.900	2 1/8	7 3/4	20	283
1 1/2	2.200	2 3/8	8 3/4	10	410
2	2.750	2 3/4	9 1/2	10	646
2 1/2	3.250	3 3/8	10 1/2	Bulk	1209
3	4.000	3 3/4	13	Bulk	1831
3 1/2	4.625	3 3/8	15	Bulk	2528
4	5.000	3 1/2	16	Bulk	3163
5	6.296	3 3/4	24	Bulk	7310
6	7.390	4	30	Bulk	11380

Non-Labeled

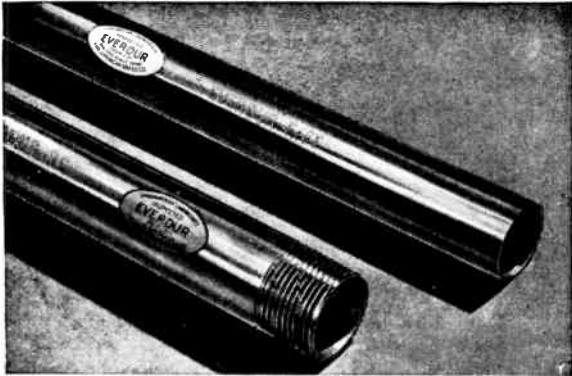
8	9.625	5 3/4	.....	.....	.....
10	11.750	5 3/4	.....	.....	.....
12	14.000	6 1/8	.....	.....	.....

Long Radius (12" thru 48") Elbows are also available.

Wrought Iron Nipples are manufactured from new, tested and full weight galvanized wrought iron conduit in accordance with commercial standards. They conform to U/L standards and ASTM A-72 specification. Threads meet ASTM or ASM standards.

Price on Application

**AMERICAN BRASS EVERDUR®
ELECTRICAL CONDUIT AND FITTINGS**



Everdur Electrical Conduit is available in both Rigid Conduit and Electrical Metallic Tube sizes labeled by the Underwriters' Laboratories, Inc., under their Factory Inspection and Label Service Procedure. Both types of Everdur Conduit are seamless, immune to rust and offer exceptional resistance to a wide variety of corroding agents.

Everdur Seamless Rigid Conduit

Nom. Size In.	Dimensions			Weight Lbs. per Nominal 10 Ft. Lgth.
	O.D. Inches	I.D. Inches	Wall Inches	
3/8	.540	.382	.079	4.381
1/2	.675	.503	.086	6.086
5/8	.840	.636	.102	9.075
3/4	1.050	.834	.108	12.27
1	1.315	1.075	.120	17.32
1 1/4	1.660	1.382	.139	25.50
1 1/2	1.900	1.614	.143	30.35
2	2.375	2.077	.149	40.12
2 1/2	2.875	2.519	.178	58.18
3	3.500	3.084	.208	83.05
3 1/2	4.000	3.548	.226	103.5
4	4.500	4.026	.237	122.3

Everdur Seamless E.M.T. Conduit

Nom. Size In.	Dimensions			Weights Lb. per Foot
	O.D. Inches	I.D. Inches	Wall Inches	
3/8	.577	.493	.042	.2677
1/2	.706	.622	.042	.3322
3/4	.922	.824	.049	.5096
1	1.163	1.049	.057	.7510
1 1/4	1.510	1.380	.065	1.119
1 1/2	1.740	1.610	.065	1.297
2	2.197	2.067	.065	1.651

Variations from these dimensions and weights must be expected in practice.

EVERDUR SEAMLESS COUPLINGS

For Assembling Everdur Rigid Conduit

Everdur Seamless Couplings in sizes for 1/4 to 4 inches inclusive are available for assembling Everdur Rigid Conduit. These couplings have tapered threads which insure five thread engagement and result in stronger and tighter joints than can be secured with the usual straight threaded conduit coupling of other metals.

SEAMLESS EVERDUR ELBOWS

For E.M.T. and Rigid Conduit

Standard 45° and 90° Elbows, also Elbows of special radius, are available in Everdur E.M.T. or Rigid Conduit in sizes of 1/2 inch and larger.

EVERDUR SEAMLESS RACEWAYS

Special sizes in larger diameters with wall thicknesses comparable to Everdur Electrical Metallic Tubing are available up to 4-inch nominal sizes, in random lengths of 10 to 14 feet. They are not listed with Underwriters', but are specified as Everdur Seamless Raceways.

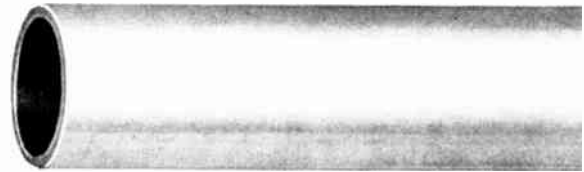
EVERDUR FITTINGS

Everdur fittings (locknuts, bushings, nipples, Condulets, etc.) are available. Prices on request.

Price on Application

E.M.T. THINWALL CONDUIT

Underwriters' Approved



Galvanized electrical metallic tubing which is light in weight and easy to handle. It is furnished in 10 ft. lengths without couplings.

TUBING—DIMENSIONS AND WEIGHTS

Trade Size (Inches)	Outside Diameter (Inches)	Nominal Inside Diameter (Inches)	Nominal Wall Thickness (Inches)	Nominal Weight Per 100 Ft. (Pounds)	Feet Per Bundle
3/8	0.577	0.493	0.042	23	200
1/2	0.706	0.622	0.042	30	100
3/4	0.922	0.824	0.049	47	100
1	1.163	1.049	0.057	68	100
1 1/4	1.510	1.380	0.065	100	50
1 1/2	1.740	1.610	0.065	114	50
2	2.197	2.067	0.065	147	30
**2 1/2	2.875	2.731	0.072	230	...
**3	3.500	3.356	0.072	270	...
**4	4.500	4.334	0.083	400	...

**O.D. Size same as corresponding trade sizes of Rigid Conduit.

All sizes furnished in 10-foot lengths.
Applicable Tolerances—Length: plus-minus 1/4 inch.
Outside Diameter: plus-minus .005 inch.

ELBOWS—DIMENSIONS AND WEIGHTS

Elbow Size (Inches)	Minimum Radius to Center of Tubing (Inches)		Nominal Offset (Inches)		Min. Straight Length—Ls at Each End. (Inches)	
	45°	90°	45°	90°	45°	90°
	1	5.000	5.750	6.3125	7.812	5.250	2.062
1 1/4	5.600	7.370	6.8175	9.375	5.500	2.000
1 1/2	6.875	8.625	6.9375	10.625	5.125	2.000
2	8.000	9.500	7.4375	12.375	6.000	2.875
*2 1/2	10.500	10.500	8.0249	17.500	7.000	7.000
*3	13.000	13.000	9.1107	20.500	7.500	7.500
*4	16.000	16.000	11.0500	25.000	9.000	9.000

*90° factory elbows bent to same standards as in U.L. 6 for Rigid Conduit.

Elbow Size (Inches)	Weight Per 100 Pcs. (Pounds)		Standard Package Quantities
	45°	90°	
1	92.5	84	25
1 1/4	128	144	25
1 1/2	151	195	20
2	231	290	10
2 1/2	410	540	1
3	550	790	1
4	980	1410	1

FITTINGS — DIMENSIONS AND WEIGHTS

Trade Sizes	Nom. Length (Inches)	Std. Pkg.	Nom. Wt. Per 100 Ft. (Pounds)	Nom. Outside Dia.* (Inches)
2 1/2" Coupling	8	5	163	3
2 1/2" Connector	6	5	244	3 1/4
3" Coupling	9	5	216	3 1/2
3" Connector	6 1/2	5	300	3 3/4
4" Coupling	11	1	328	4 1/2
4" Connector	7 1/2	1	494	4 3/4

*For maximum clearance add 1/4" for set screw.

PLASTIC ARMORED RACEWAYS

ELECTRUNITE® PLASTIC COATED E.M.T.



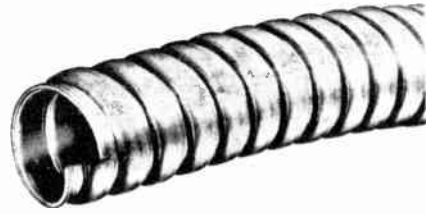
Republic ELECTRUNITE Plastic Coated E.M.T. is the answer where electrical raceways have to be replaced frequently because of extremely corrosive conditions. Plastic Coated E.M.T. is standard galvanized electrical metallic tubing to which corrosion resistant polyvinyl chloride is applied by a patented extrusion process. By using this plastic armored raceway, replacement costs are minimized, "down-time" of production equipment is eliminated, and it actually costs less because it lasts longer. Installation is simple, no special tools, special fittings or special techniques needed. Has all the installation advantages and built-in qualities of ELECTRUNITE E.M.T. including a grounded system plus the extra protection against corrosion. Plastic Coated E.M.T. is carried in many large distribution centers for your convenience. Should be installed in accordance with provisions of the National Electrical Code as stated in Article 348 for E.M.T.

Size In.	Ext. Dia. In.	Wt. Lbs. Per 1000' Inc. Pkg.	Feet Per Std. Pkg.
1/2	.746	380	100
3/4	.962	553	100
1	1.203	798	100
1 1/4	1.550	1190	50
1 1/2	1.780	1350	50
2	2.237	1749	30

Furnished in standard 10-foot lengths.

FLEXIBLE STEEL CONDUIT

U.L. & C.S.A. LABELED FLEXIBLE STEEL CONDUIT



Also used on machine tools, printing presses, cranes, conveyors, portable power tools and processing plants of all types.

Trade Size In.	Min. Wt. Lbs. 100'	External Dia., In.		Radius of Cylindrical Test Surface, Inches	Feet Per Std. Coil
		Min.	Max.		
5/8	15.0	0.470	0.510	1 3/4	250
3/4	25.5	0.560	0.610	2	250
1/2	47.0	0.860	0.920	3	100
3/4	59.5	1.045	1.105	4	100
1	102.0	1.300	1.380	5	50
1 1/4	125.0	1.550	1.630	6 1/4	50
1 1/2	162.5	1.850	1.950	7 1/2	25
2	212.5	2.350	2.450	10	25
2 1/2	263.0	2.860	3.060	12 1/2	25
3	313.0	3.360	3.560	15	25
3 1/2	363.0	3.860	4.060	17 1/2	25
4	413.5	4.360	4.560	20	25

SEALTITE® CONDUIT

SEALTITE TYPES U.A., U.A. — O.R., C.S.A.



Flexible, Liquid-Tight Wiring Conduit
An Anaconda Product

Sealtite flexible, liquid-tight conduit is manufactured by Anaconda Metal Hose Division of Anaconda American Brass Company. Sealtite is designed to protect wiring on electrical equipment where wiring must move and/or is endangered by moisture, oils, abrasion, corrosion, etc. Sealtite is available in long lengths on reels or in cartons. Liquid-tight connectors are available for Sealtite; these must be purchased separately.

SEALTITE TYPES E.F., H.C., O.R.

Sealtite Type E.F. meets J.I.C. requirements. Its core is of flexible galvanized steel with a polyvinyl chloride cover extruded over the core to make the conduit liquid-tight. Standard color is black; also available in gray or white. Sealtite Type H.C. has a special polyvinyl chloride cover extruded over a rugged flexible galvanized steel core. Type H.C. Sealtite is designed to protect wiring through the temperature range; plus 221°F. to minus 40°F. Type O.R. is covered with a special polyvinyl chloride that provides greater resistance to oil degradation.

Trade Size In.	Outside Dia., In.		Approx. Inside Bend Per Dia. Std.		Approx. Feet Per Std. Ctn.		Approx. Wt. Per Std. Reel	
	Min.	Max.	In.	Std.	In.	Std.	Per Reel	Per Reel
3/4	.690	.710	4	250	60	1500	390	510
1/2	.820	.840	5	200	60	1000	325	425
3/4	1.030	1.050	6	175	70	850	375	490
1	1.290	1.315	8	100	60	600	420	580
1 1/4	1.635	1.660	9	100	80	375	360	485
1 1/2	1.875	1.900	11	50	55	.....	.....	.....
2	2.350	2.375	14	50	75	.....	.....	.....
2 1/2	2.850	2.875	19	50	105	.....	.....	.....
3	3.470	3.500	23	25	80	.....	.....	.....
4	4.460	4.500	28	25	105	.....	.....	.....
5	5.505	5.565	40	25	155	.....	.....	.....

Price on Application

Sealtite Type U.A. is approved by Underwriters' Laboratories, Inc. Sealtite Type C.S.A. has been approved by Canadian Standards Association. Type C.S.A. is used in Canada and by American manufacturers who sell or service their products in Canada. A tough extruded polyvinyl chloride cover protects wiring against moisture, oil, chemicals and corrosive fumes. Standard color is black; Type U.A. is also available in gray. The flexible metal core is made of interlocked galvanized steel with a copper bonding conductor wound spirally in the space between each convolution on the inside of the conduit. Type U.A. — O.R. has a special oil-resistant cover for extra protection from destructive oils.

Specifications — Types U.A., U.A. — O.R.

Trade Size In.	Outside Dia., In.		Approx. Inside Bend Per Dia. Std.		Approx. Feet Per Std. Ctn.		Approx. Wt. Per Std. Reel	
	Min.	Max.	In.	Std.	In.	Std.	Per Reel	Per Reel
3/4	.690	.710	6	200	65	1500	510	510
1/2	.820	.840	7	200	80	1000	425	425
3/4	1.030	1.050	10	150	80	850	490	490
1	1.290	1.315	12	100	90	600	580	580
1 1/4	1.630	1.660	14	50	60	375	485	485
1 1/2	1.875	1.900	11	50	65	.....	.....	.....
2	2.350	2.375	14	50	90	.....	.....	.....
2 1/2	2.850	2.875	19	50	105	.....	.....	.....
3	3.470	3.500	23	25	80	.....	.....	.....

Specifications — Type C.S.A.

Trade Size In.	Outside Dia., In.		Approx. Inside Bend Per Dia. Std.		Approx. Feet Per Std. Ctn.		Approx. Wt. Per Std. Reel	
	Min.	Max.	In.	Std.	In.	Std.	Per Reel	Per Reel
3/4	.690	.710	6	200	60	1500	460	460
1/2	.820	.840	7	200	70	1000	365	365
3/4	1.030	1.050	10	150	70	850	420	420
1	1.290	1.315	13	100	85	600	525	525
1 1/4	1.630	1.660	16	50	55	375	430	430

ALUMINUM ELECTRICAL RIGID CONDUIT AND FITTINGS

Approved by Underwriters' Laboratories

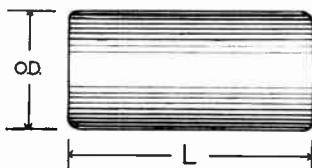
Conduit length is 10 feet, threaded both ends, one end fitted with coupling the other end with a plastic protector. Threads: Conduit, elbows with American Standard Tapered Pipe Thread, ASA B2.1; couplings tapped with straight threads. Dimensions and weights are nominal except as otherwise noted. Alloy: All rigid conduit, couplings, elbows and bends are Alloy 6063.

ALUMINUM ELECTRICAL RIGID CONDUIT



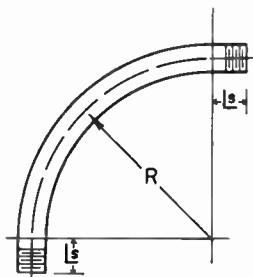
Size In.	O.D. In.	I.D. In.	Wall Thick. In.	Wt. Per Lgth.
1/2	.840	.622	.109	3.0
3/4	1.050	.824	.113	4.0
1	1.315	1.049	.133	6.0
1 1/4	1.660	1.380	.140	8.1
1 1/2	1.900	1.610	.145	9.7
2	2.375	2.067	.154	13.2
2 1/2	2.875	2.469	.203	20.8
3	3.500	3.068	.216	27.2
3 1/2	4.000	3.548	.226	32.7
4	4.500	4.026	.237	38.9
5	5.563	5.047	.258	52.9
6	6.625	6.065	.280	78.7

ALUMINUM RIGID CONDUIT FITTINGS



Size In.	Couplings		
	Lgth. In.	O.D. In.	Wt. Lbs. per 100
1/2	1 1/8	1 3/4	6.1
3/4	1 5/8	1 7/4	9.1
1	2	1 7/8	12.5
1 1/4	2 1/8	1 7/4	18.9
1 1/2	2 1/4	2 1/2	23.3
2	2 3/4	2 3/4	34.6
2 1/2	3 1/4	3 1/2	68.3
3	3 1/2	3 7/8	91.4
3 1/2	3 3/4	4 1/8	108.0
4	3 1/2	5	142.0
5	3 3/4	6 1/2	241.9
6	4	7 1/8	321.0

Size In.	Elbow or Bend		
	Radius @ In.	Min. Straight Lgth. In.	Wt. Lbs. Per 100
1/2	4	1 1/2	29
3/4	4 1/2	1 1/2	43
1	5 3/4	1 7/8	71
1 1/4	7 1/4	2	110
1 1/2	8 1/4	2	153
2	9 1/2	2	249
2 1/2	10 1/2	3	437
3	13	3 1/8	767
3 1/2	15	3 3/4	1036
4	16	3 3/8	1228
5	24	3 5/8	2490
6	30	3 3/4	3850



PLASTIC CONDUIT AND FITTINGS



Extruded from a high impact polystyrene compound for underground installation of electrical wires and cables. It meets the physical dimensions outlined in NEMA Standard TC-1-1965. It is light in weight, easy to handle and offers economical, strong and durable corrosion resistant service.

Dimensions

TYPE I (Concrete Encasement) 20' Lengths Standard

Nom. Size In.	Nom. O.D.	Min. Wall Thick-ness	Approx. Wt. Lbs. Per 100'	Feet Per Bundle	
				30'	20'
2	2.250	.070	24	450	300
3	3.250	.095	46	240	120
3 1/2	3.800	.100	57	120	100
4	4.300	.110	71	90	100
5	5.300	.130	103	60	60
6	6.360	.150	142	60	60

TYPE II (Direct Burial) 20' Lengths Standard

Nom. Size In.	Nom. O.D.	Min. Wall Thick-ness	Approx. Wt. Lbs. Per 100'	Feet Per Bundle	
				30'	20'
1 1/2	1.730	.090	23	450	300
2	2.250	.090	31	450	300
2 1/2	2.570	.110	42	240	300
3	3.250	.110	54	120	160
3 1/2	3.800	.120	68	90	100
4	4.300	.130	83	90	100
5	5.300	.150	118	60	60
6	6.360	.180	164	60	60

FITTINGS



Coupling



Expansion Joint



End Bell



Female Adapter



Cap



90° Standard Radius Elbow



45° Standard Radius Elbow

Description

- 5° Angle Reducer Coupling
- Plug
- Male Adapter
- Reducer Bushing
- 90° Elbow 18" Radius
- 90° Elbow 24" Radius
- 90° Elbow 36" Radius
- 90° Elbow 48" Radius
- 45° Elbow 18" Radius
- 45° Elbow 24" Radius
- 45° Elbow 36" Radius
- 45° Elbow 48" Radius
- Cement and Thinner — available in Pints, Quarts, Gallons

Special fittings and other special ells available upon request.

Price on Application

**H-D-P HEAVY WALL (Schedule 40)
PLASTIC CONDUIT AND FITTINGS**

Extruded from a high density (Type III) polyethylene compound. The excellent physical properties of H-D-P Conduit provides an end product with high impact values and toughness. Being highly resistant to acids and alkalis it will also provide long trouble-free service. Installation is a simple procedure.

Nom. Size In.	Nom. O.D.	Nom. Wall	Approx. Wt. Lbs. Per 100'	Standard Lengths	
				Straight Lengths	Coil Lengths
1/2	.840	.109	10.4	20	100 & 300'
3/4	1.050	.113	13.9	20	100 & 300'
1	1.315	.133	20.6	20	100 & 300'
1 1/4	1.660	.140	27.9	20	100 & 300'
1 1/2	1.900	.145	33.3	20	100 & 300'
2	2.375	.154	44.1	20	100'
3	3.500	.216	93.8	20	-----
4	4.500	.237	133.6	20	-----

Special length quoted upon request.

**H-D-P CONDUIT (Schedule 40 IPS)
U.L. Listed for Underground Installation**

Nom. Size In.	Nom. O.D.	Nom. Wall	Approx. Wt. Lbs. Per 100'	Standard Lengths*	
				Straight Lengths	Coupled
1/2	.840	.109	10.4	10'	10'
3/4	1.050	.113	13.9	10'	10'
1	1.315	.133	20.6	10'	10'
1 1/4	1.660	.140	27.9	10'	10'
1 1/2	1.900	.145	33.3	10'	10'
2	2.375	.154	44.1	10'	10'
3	3.500	.216	93.8	10'	10'
4	4.500	.237	133.6	10'	10'

* 1/2" through 1 1/4" normally shipped with threaded ends and one threaded coupling.

1 1/2" through 4" normally shipped plain ends with one drive-on coupling.

HDP U.L. Listing is presently confined to Schedule 40 Conduit for underground installation. Article 347 of the 1965 Revised National Electrical Code provides that for specific applications or uses, lengths shorter or longer than 10 feet with or without couplings may be shipped.

FITTINGS



Threaded Coupling



Drive-On Coupling



90° Standard Radius Elbow



45° Standard Radius Elbow

- 90° Elbow 18" Radius
- 90° Elbow 24" Radius
- 90° Elbow 36" Radius
- 90° Elbow 48" Radius

- 45° Elbow 18" Radius
- 45° Elbow 24" Radius
- 45° Elbow 36" Radius
- 45° Elbow 48" Radius

Joined by mechanical means — Drive-On Couplings. Threading Butt-Fusion Weld, Heat Shrink Sleeves. No cements required.

PVC CONDUITS

Extruded from high grade virgin polyvinyl chloride compound, light grey in color. This compound has established its ability to retain its outstanding properties over many years of severe use. Its dependability has been proven by long immersion in water and oil, outdoor aging, exposure to sunlight, underground environments and corrosive atmospheres.

It meets Underwriters' Laboratories specifications for direct or encased underground installation as well as specific above ground locations.

Schedule A

20' Lengths — Plain Ends

Nom. Size In.	O.D. (IPS)	I.D.	Wall	Wt. Lbs. Per 100'
1/2	.840	.740	.050	8
3/4	1.050	.940	.055	11
1	1.315	1.195	.060	15
1 1/4	1.660	1.520	.070	22
1 1/2	1.900	1.740	.080	29
2	2.375	2.175	.100	45
2 1/2	2.875	2.635	.120	65
3	3.500	3.208	.146	97
4	4.500	4.110	.195	166

Schedule 40

10' Lengths Coupled One End — U.L. Listed

Nom. Size In.	O.D. (IPS)	I.D.	Wall	Wt. Lbs. Per 100'
1/2	.840	.622	.109	16
3/4	1.050	.824	.113	21
1	1.315	1.049	.133	31
1 1/4	1.660	1.380	.140	42
1 1/2	1.900	1.610	.145	50
2	2.375	2.067	.154	67
2 1/2	2.875	2.469	.203	107
3	3.500	3.068	.216	140
3 1/2	4.000	3.548	.226	169
4	4.500	4.026	.237	199

Schedule 80

20' Lengths — Plain Ends (Can Be Threaded)

Nom. Size In.	O.D. (IPS)	I.D.	Wall	Wt. Lbs. Per 100'
1/2	.840	.546	.147	19
3/4	1.050	.742	.154	26
1	1.315	.957	.179	38
1 1/4	1.660	1.278	.191	53
1 1/2	1.900	1.500	.200	64
2	2.375	1.939	.218	88
2 1/2	2.875	2.323	.276	134
3	3.500	2.900	.300	175
4	4.500	3.826	.337	256

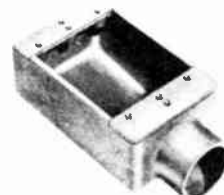
ACCESS FITTINGS



Coupling Terminal Adapter Female Adapter



Types
T, LL, LR, LB, C, X
Available in 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" sizes.



Types
FS, FSS
Available in 1/2", 3/4" and 1" sizes.

- Cap
- Plug
- 2-Hole Strap
- Expansion Joint
- Reducer Bushing
- Reducer Bushing SXT

- End Bell
- 90° Standard Radius Elbow
- 45° Standard Radius Elbow
- 30° Standard Radius Elbow
- 22 1/2° Standard Radius Elbow
- Cement and Thinner

Price on Application

ABS — IPS O.D.

(Western Underground Comm. Spec. 3.1.)
PLASTIC CONDUIT AND FITTINGS

ABS Plastic Conduit is extruded from acrylonitrile-butadiene-styrene compound for underground installation of electrical wires and cables. It fully meets the physical dimensions and test and material requirements of model specification 3.1 of the Western Underground Committee. Light in weight, easy to handle and offers economical, strong and durable corrosion resistant service as conduit.

TYPE E.B. (For Concrete Encasement) 20' Lengths

Nom. Size In.	Nom. O.D.	Min. Wall Thickness	Approx. Wt. Lbs. Per 100'	Feet Per Bundle
2	2.375	.060	21	200
3	3.500	.075	39	100
3 1/2	4.000	.080	47	100
4	4.500	.095	63	60
5	5.563	.100	82	60
6	6.625	.125	122	40

TYPE D.B. (For Direct Burial) 20' Lengths

Nom. Size In.	Nom. O.D.	Min. Wall Thickness	Approx. Wt. Lbs. Per 100'	Feet Per Bundle
1	1.315	.070	13	400
1 1/2	1.900	.090	24	200
2	2.375	.110	38	120
3	3.500	.125	63	80
3 1/2	4.000	.140	81	60
4	4.500	.160	104	40
5	5.563	.180	146	20
6	6.625	.190	179	20

FITTINGS

Expansion Joint



Coupling



Female Adapter



Reducer Bushing



- 90° Standard Radius Elbow
- 45° Standard Radius Elbow
- 90° Elbow 18" Radius
- 90° Elbow 24" Radius
- 90° Elbow 36" Radius
- 90° Elbow 48" Radius
- 45° Elbow 18" Radius
- 45° Elbow 24" Radius
- 45° Elbow 36" Radius
- 45° Elbow 48" Radius

- 5° Angle Reducer Coupling
- End Bell
- Plug
- Male Adapter
- Cap

Price on Application

POLYETHYLENE FLEXIBLE PLASTIC CONDUIT



A low cost flexible conduit designed for low voltage wiring. It is extruded from an electrically proven medium density compound which provides a high degree of flexibility. Available in continuous long length coils that allow for a crooked trenching and obstacles without the necessity of installing elbows. A low coefficient of friction makes cable pulling fast and simple. Widely used for small gauge control wiring, telephone conduit for pre-wired outlets, TV lead lines, call systems, and temporary conduit applications.

CLASS 80

Nom. Size In.	Approx. Wt. Lbs. Per 100'	Std. Coil Lengths	Nom. I.D.
1/2	4	400 — 100	.622
3/4	6	400 — 100	.824
1	10	300 — 100	1.049
1 1/4	17	300 — 100	1.380
1 1/2	23	250 — 100	1.610
2	38	200 — 100	2.067

STANDARD CLASS

Nom. Size In.	Approx. Wt. Lbs. Per 100'	Std. Coil Lengths	Nom. I.D.
1 1/4	16	300 — 100	1.380
1 1/2	21	250 — 100	1.610
2	30	200 — 100	2.067
3	84	100	3.068

COUPLINGS



Size In.	Carton
1/2	50
3/4	50
1	50

CONNECTORS

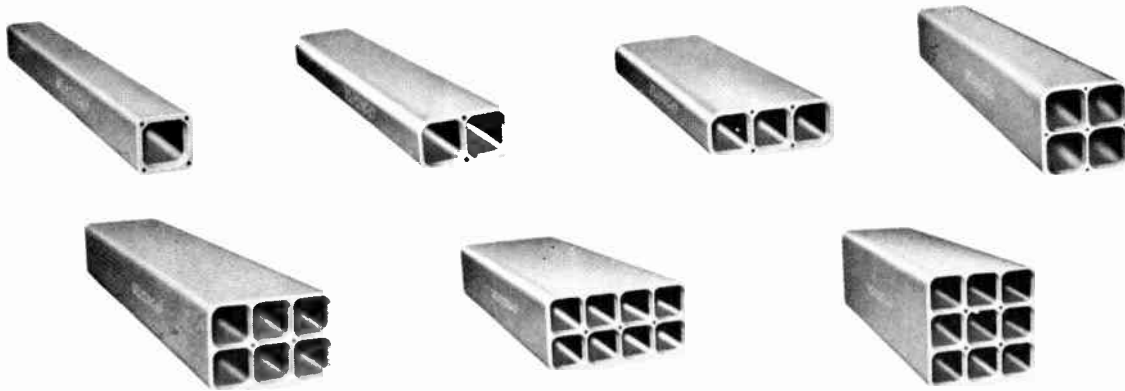


Size In.	Carton
1/2	50
3/4	50
1	50

TYPES, CHARACTERISTICS, AND APPLICATIONS CHART: PLASTIC CONDUIT
Chart prepared by the Thermoplastic Conduit, Duct and Accessories Section, NEMA

TYPE OF PLASTIC CONDUIT	MATERIAL DESCRIPTION AND USE	TYPICAL APPLICATIONS	FEATURES	CODE & STANDARDS	NOMINAL SIZE
PVC-Polyvinyl Chloride Type EPC Schedule 40 Heavy Wall	Gray Semi-Rigid usually supplied in 10' Lengths. A high grade self-extinguishing high impact plastic conduit designed for above and underground installations offering maximum corrosion resistance and life. Primaries to 5KV. Secondaries to 600V.	Industrial & commercial bldgs., schools, hospitals, highway & street lighting, underground feeders, prestressed concrete structures, and general slab work. Corrosive & wet locations as a surface mounted conduit.	Light non-magnetic, non-electrolytic strong 1/6 wt. of steel, 1/2 wt. of aluminum. Inert to most chemicals long life. Worthwhile installation savings. Simple solvent weld gives permanent water tight joints. Fittings available for adapting to threaded system.	U.L. 651 Above ground underground & concrete encased. Listed in NEC, WC 1094 - Type II, MIL C-23571 Type II	1/2" thru 6"
Type EPT Schedule A, Light Wall	Gray Semi-Rigid usually supplied in 10' Lengths. A high grade self-extinguishing conduit used in underground enclosed installations.	Concrete slab & underground.	Same as above.	U.L. 651 concrete encased underground, WL-1094 Type I MIL C-23571 Type I	1/2" thru 4"
Type EPC Schedule 80, Extra Heavy Wall	Gray Semi-Rigid usually supplied in 10' Lengths. Same as Schedule 40 except heavier wall for added safety in hazardous areas requiring an extra high impact conduit.	Utility pole risers and load applications requiring extra heavy wall support.	Same as above.	U.L. 651	1/2" thru 6"
Polyethylene EPC Schedule 40	Black Semi-Rigid usually supplied in 10' Lengths.	Direct Burial & Concrete Encasement	Light Non-Corrosive.	U.L. (Sch. 40) Underground. Listed in NEC	1/2" thru 2"
ABS Type II or DB (Direct Burial)	Black Semi-Rigid usually supplied in 20 and 30' Lengths. A high impact material developed to meet W.U.C. specifications for direct burial in underground distribution systems.	Utility underground distribution systems. Primaries & secondaries & low voltage systems.	Light, strong, quickly installed for maximum labor savings. Excellent for utility use, airport lighting and other underground systems.	Western Underground Committee Spec. (W.U.C.) DB	1" thru 6"
ABS Type I or EB - (Encased)	Black Semi-Rigid usually supplied in 20 & 30' Lengths. Same as DB except thinner wall for concrete encasement.	Same as above except concrete encased.	Same as above except concrete encased.	Same as above EB	2" thru 6"
Polystyrene Type II	Black Semi-Rigid usually supplied in 20 & 30' Lengths. Light, corrosion resistant material underground direct burial communications and distribution.	Airport & highway lighting - Power & Tele. Co. use. Underground distribution systems. Primaries, secondaries and low voltage systems.	Lightest of all plastic conduits. Fast solvent weld joints reduce installation costs.	Corps of Engr. 303.06 Guide Spec. NEMA Std., GSA, Spec. #302-2 Type II	1-1/2" thru 6"
Type I	Black Semi-Rigid usually supplied in 20 & 30' Lengths. Light, corrosion resistant materials for communication and distribution for concrete encasement.	Same as above except concrete encased.	Same as above except concrete encased.	Same as above Type I	1-1/2" thru 6"
Low Voltage Flexible Tubing (PE)	Black Very Flexible usually supplied in 100-500' Lengths, recommended by some manufacturers for underground work, as well as low voltage applications.	Communication conduit, low voltage work, for encasement or direct burial.	Long continuous laying lengths offer worthwhile labor savings and protection.		1/2" thru 2"
Coilable Duct (Polyethylene) Medium and High Density	Black Flexible usually supplied in 100 - 1000' Lengths. High density polyethylene design for use with wiring pre-assembled.	Expressways, utility service lines low voltage systems.	Pre-assembled wire & duct can be run from reels into trench in long continuous runs. Good for URD work, street lighting, etc.		1/2" thru 2"

NATCO UNDERGROUND CLAY CONDUIT
SINGLE AND MULTIPLE DUCT CONDUIT



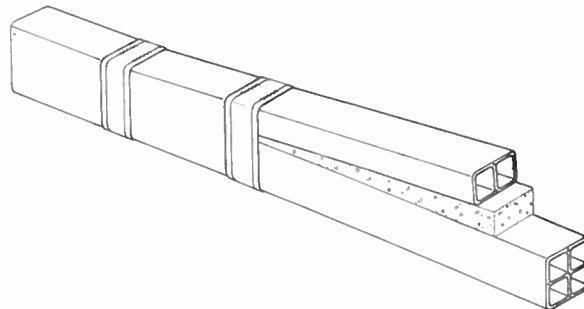
For telephone, telegraph, railway signal, fire alarm and light and power service. Multiple duct for main telephone runs, single duct for laterals.

The 3 1/4" is the standard telephone duct; 3 1/2" and 4 1/4" are oversize telephone ducts. 3 1/4" bore conduit is unglazed; 3 1/2" and 4 1/4" bore conduit have glazed ducts.

Nominal Bore In.	No. Duct Holes	Approx. Outside Size, In.	Full Lengths No.	12 In. No.	18 In. No.	Price Per 100 Duct Feet	8 In. No.	Price Per 100 Duct Feet	6 In. No.	Price Per 100 Duct Feet
3 1/4	1	4.58 x 4.58	M 160 48	M 163	.....	\$19.96	M 162	\$30.00	M 161	\$39.92
3 1/4	2	4.54 x 8.44	M3000 48	M3003	.....	19.00	M3006	28.50	M3001	38.00
3 1/4	3	4.54 x 12.34	M3020 36	M3023	.....	19.10	M3026	28.65	M3021	38.20
3 1/4	4	8.44 x 8.44	M3040 60	M3043	.....	14.92	M3044	.....	M3041	29.84
3 1/4	6	8.44 x 12.34	M3050 60	M3053	.....	14.81	M3054	.....	M3051	29.62
3 1/4	8	8.44 x 16.24	M3080 42	M3083	.....	15.02	M3084	.....	M3081	30.04
3 1/4	9	12.34 x 12.34	M3090 42	M3093	.....	15.45	M3094	.....	M3091	30.90
3 1/2	2	4.77 x 8.90	M3100 48	.....	.....	22.64	.....	.....	.....	44.40
3 1/2	3	4.77 x 13.03	M3120 48	M3123	.....	22.75	.....	.....	M3121	44.62
3 1/2	4	8.90 x 8.90	M3140 60	M3143	.....	16.89	M3144	.....	M3141	32.95
3 1/2	6	8.90 x 13.03	M3150 60	M3153	.....	16.77	M3154	.....	M3151	32.81
3 1/2	9	13.03 x 13.03	M3190 48	M3193	.....	17.46	M3194	.....	M3191	34.19
4 1/4	4	10.76 x 10.76	M3440 60	M3443	.....	24.76	M3444	.....	M3441	48.46
4 1/4	6	10.75 x 15.76	M3450 48	M3453	.....	24.63	.....	.....	M3451	48.07

All above have dowel holes for aligning duct holes.

EXPANDED WEB CONDUIT



This conduit permits the division of multiple duct main lines into two or more branch lines, each having a smaller number of ducts than the main line. Such a division is highly advantageous in splaying main duct lines for entrance to central office buildings or to manholes or in straddling pipe lines or other underground obstructions.

One end of this conduit is the same shape and size as regular straight conduit, while at the opposite end, the individual ducts are more widely separated by means of double webs, permitting alignment with abutting branch lines.

No. Duct Holes	Type	For Branching Into:	No.	3 1/4-In. Price Per Piece	3 1/2-In. No.	Price Per Piece
2	1-1	2 Single	M5400	\$2.37	.....	.....
3	1-2	1 Single and 1-2-Way	M5420	3.55	.....	.....
3	1-1-1	3 Single	M5425	3.55	.....	.....
4	2-2	2-2-Way	M5440	3.83	M5540	\$4.26
6	2-4	1-2-Way and 1-4-Way	M5450	5.71	.....	.....
6	2-2-2	3-2-Way	M5455	5.71	.....	.....
6	3-3	2-3-Way	M5460	5.71	M5560	6.34
8	2-6	1-2-Way and 1-6-Way	M5480	8.06	.....	.....
8	4-4	2-4-Way	M5485	8.06	.....	.....
9	3-6	1-3-Way and 1-6-Way	M5490	9.22	M5590	9.92

Also available scored for splitting. Prices on application.

All pieces 24 inches long.

NATCO UNDERGROUND CLAY CONDUIT
TRANSPOSITION CONDUIT



Transposition conduit facilitates changing the position of cables on approaching manholes, cable vaults, viaducts, bridges or other crossings.

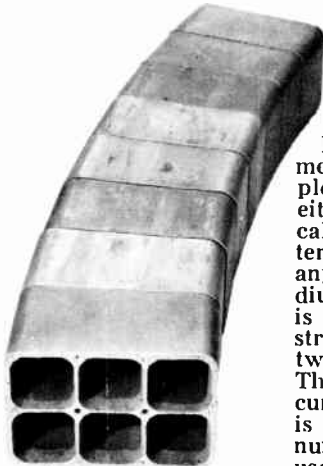
The position of ducts and cables in 2, 3, 6 or 8 duct conduit lines may be transposed either a quarter turn of ninety degrees, or a half turn one hundred eighty degrees.

A ninety degree transposition changes the conduit line from flat to edge position or vice versa, and the direction of the twist may be either right hand or left hand.

A one hundred eighty degree transposition reverses the position of the top and bottom ducts and cable in the conduit line, and the direction of the twist may be either right hand or left hand. All pieces are 24 inches long.

Nominal Bore, In.	Degree of Twist	No. Pieces in 90 Degree Turn	
3 1/4	22 1/2	4	
3 1/2	18	5	

Duct No.	Feet Per Hole	3 1/4-In. Twist		Price Per Piece	3 1/2-In. Twist		Price Per Piece
		Right Hand	Left Hand		Right Hand	Left Hand	
2	4	M6600	M6605	\$2.46	M6700	M6705	\$3.08
3	6	M6620	M6625	3.76	M6720	M6725	4.65
6	12	M6650	M6655	5.96	M6750	M6755	6.82
8	16	M6680	M6685	8.48			



MITERED CONDUIT

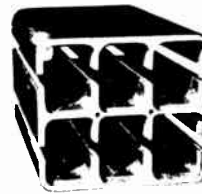
Provides a flexible means of constructing simple or reverse curves in either horizontal or vertical planes. Only one mitered shape is required for any curve of ten foot radius or larger. The radius is varied by interposing straight short pieces between the mitered pieces. The arc or angle of the curve, from 3 degrees up, is governed by the total number of mitered pieces used.

Minimum radius 10 feet. Angle of cut, 3 degrees. 30 pieces required for 90 degree curve. Approximate length per piece, 6 x 6 5/8 inches.

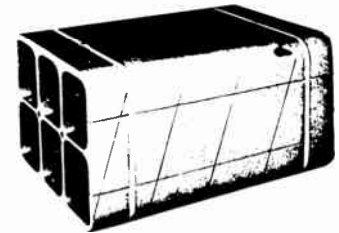
Duct No. (Sq.)	Type	3 1/4-In.		3 1/2-In.		4 1/4-In.	
		No.	Price Per Piece	No.	Price Per Piece	No.	Price Per Piece
1		M 360	\$0.22				
2	Flat	M4800	.39		\$0.50		
2	Edge	M4810	.39		.50		
3	Flat	M4820	.61	M4920	.75		
3	Edge	M4830	.61	M4930	.75		
4		M4840	.65	M4940	.74	M5240	\$1.09
6	Flat	M4850	.95	M4950	1.10	M5250	1.62
6	Edge	M4860	.95	M4960	1.10	M5260	1.62
8	Flat	M4870	1.34				
8	Edge	M4880	1.34				
9		M4890	1.58	M4990	1.73		

Also available scored for splitting. Prices on application.

NATCO UNDERGROUND CLAY CONDUIT
FACTORY SPLIT CONDUIT



Before Reassembly



After Reassembly

Designed for repairing or replacing existing conduit lines without disturbing cable. These units are split apart at the factory, then reassembled and securely banded together in their original position by steel straps until ready for use on the job. Diagonal markings on one side of each piece insure proper reassembly in the original position.

Nom. Bore In.	No. Duct Holes	18 In. No.	Price Per 100 Duct Feet	6 In. No.	Price Per 100 Duct Feet
3 1/4 sq.	1	M 260	\$36.30	M 261	\$72.60
3 1/4 sq.	2	M3600	32.87	M3601	65.74
3 1/4 sq.	3	M3620	32.87	M3621	65.74
3 1/4 sq.	4	M3640	27.33	M3641	54.65
3 1/4 sq.	6(3 pcs.)	M3650	26.80	M3651	53.60
3 1/4 sq.	6(4 pcs.)	M3660	26.80	M3661	53.60
3 1/4 sq.	8(3 pcs.)	M3670	28.48	M3671	56.96
3 1/4 sq.	8(5 pcs.)	M3680	28.48	M3681	56.96
3 1/4 sq.	9	M3690	28.48	M3691	56.96
3 1/2 sq.	2	M3700	42.23	M3701	83.97
3 1/2 sq.	3	M3720	42.23	M3721	83.97
3 1/2 sq.	4	M3740	31.44	M3741	62.16
3 1/2 sq.	6(3 pcs.)	M3750	31.21	M3751	61.70
3 1/2 sq.	6(4 pcs.)	M3760	31.21	M3761	61.70
3 1/2 sq.	9	M3790	32.52	M2791	64.31
4 1/4 sq.	4	M4040	46.08	M4041	91.11
4 1/4 sq.	6(3 pcs.)	M4050	45.72	M4051	90.38
4 1/4 sq.	6(4 pcs.)	M4060	45.72	M4061	90.38

WRAPPING TAPE



A special prepared tape which is frequently used for wrapping joints before applying the joint mortar.

It adheres closely and firmly to the conduit surfaces, and aids in waterproofing the joints. Made of paper with a waterproof paraffin coating. Especially valuable when installing conduit duct in trench, sub-

way or masonry structures before pouring concrete encasement.

In Rolls of 100 Linear Yards

Cat. No.	Width In.	Wt. Lbs. Per Roll	Price Per 1000 Yards
9060	4	8	\$36.00
9061	6	12	54.00

DOWEL PINS



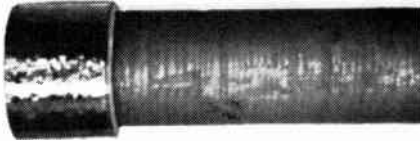
Pressed steel dowel pins with integral center flange are used for joining and aligning individual sections of conduit.

All multiple duct and single duct conduit is made with not less than two continuous dowel holes, large enough to accommodate the pins. Two pins are used at each joint.

Size: 1/4" x 3".

No. 9051 Dowel Pinsper 1000 \$23.00

ORANGEBURG FIBRE CONDUIT Available in Three Types



ORANGEBURG STANDARD FIBRE CONDUIT (Type I) is designed for encasement in concrete and provides the most efficient and economical construction for multiple duct installation.

ORANGEBURG CA CONDUIT, flush coupling attached at factory, (Type I) is also designed for encasement in concrete. Installation is a "One step" operation. No separate couplings to handle or store . . . saves time . . . cuts costs.

ORANGEBURG NOCRETE® FIBRE CONDUIT (Type II) is designed for direct burial without concrete encasement where single ducts or several ducts, side by side, are required.

Orangeburg Fibre Conduit meets and exceeds the requirements of Federal Specification WC-581, A.T. & T. (Bell Laboratories) AT-7047, U.S. Navy 9Y, NEMA BC-1-1959, Corps of Engineer Spec CE 303.06. All sizes of Type I and 3" and 4"

Type II are listed by Underwriters' Laboratories.

No joint compound is recommended, no swabbing or reaming is needed.

STANDARD CONDUIT — CA CONDUIT TYPE I

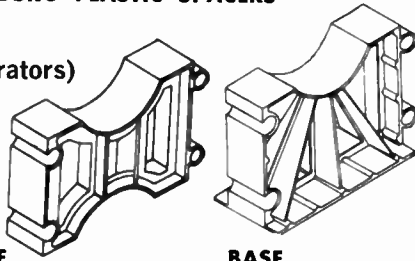
NOCRETE CONDUIT TYPE II

	Approx. I. D. Inches Size	Weight Pounds Per 100 Ft.	CLASS A	CLASS B	CLASS C	Weight Pounds Per 100 Ft.	CLASS A	CLASS B	CLASS C
			30,000 Lbs. or Over	10,000 to 29,999 Lbs.	Under 10,000 Lbs.		30,000 Lbs. or Over	10,000 to 29,999 Lbs.	Under 10,000 Lbs.
			Price Per 100 Feet				Price Per 100		
One coupling included with each length. Up to 15% may be in lengths shorter than standard.	2"	127	\$ 16.00	\$ 19.15	\$ 22.30	150	\$ 22.20	\$ 26.50	\$ 30.75
	3"	164	18.90	22.60	26.25	251	28.10	33.50	38.95
	3½"	180	21.25	25.45	29.65	300	32.00	38.00	45.00
	4"	206	23.10	27.85	32.55	354	40.00	47.65	55.35
	4½"	274	30.45	36.50	42.55				
	5"	400	39.65	47.80	55.65				
	6"	511	54.60	65.65	76.65				
	Size	Per 100 Pcs.	Price Per 100 Pieces			Per 100 Pcs.	Price Per 100 Pieces		
Extra Tapered Couplings CA Couplings (Type I only)	2"	30	\$ 13.15	\$ 14.20	\$ 17.35	55	\$ 17.00	\$ 20.00	\$ 24.00
	3"	51	15.25	17.60	20.75	86	22.00	26.00	31.50
	3½"	79	17.35	20.75	24.15	92	25.00	30.00	35.00
	4"	93	18.90	22.05	26.50	144	31.50	37.50	44.00
	4½"	136	24.15	27.30	32.55				
	5"	218	28.60	32.80	39.10				
	6"	262	50.40	59.05	65.35				
BELL ENDS REDUCERS AND ADAPTERS All sizes to all sizes. Specify in detail. EXPANSION JOINTS Cat. No. 0505 — 1 rubber ring included (Type I) Cat. No. 0507 — 1 rubber ring included (Type II)	2"	60	\$ 73.50	\$ 85.05	\$ 97.65	160	\$ 75.00	\$ 87.00	\$100.00
	3"	100	82.95	94.55	110.25	300	85.00	100.00	110.00
	3½"	190	92.40	110.25	129.15	350	97.00	110.00	122.00
	4"	200	98.70	115.50	132.30	400	105.00	123.00	135.00
	4½"	325	110.25	130.20	149.10				
	5"	345	149.10	171.15	196.35				
	6"	380	193.20	220.50	259.35				
BEND SECTIONS (5° — 36° R.) A short curved section — male joint one end — female joint other end.	2"	60	\$ 21.00	\$ 25.20	\$ 28.35	125	\$ 75.00	\$ 87.00	\$100.00
	3"	80	25.20	29.40	34.65	180	85.00	100.00	110.00
	3½"	90	36.75	44.10	52.50	200	97.00	110.00	122.00
	4"	140	42.00	49.35	57.75	300	105.00	123.00	135.00
	4½"	150	47.25	55.65	63.00				
	5"	220	52.50	60.90	70.35				
	6"	260	63.00	73.50	86.10				
ANGLE COUPLINGS (5° and 15°) For offsets, field bends and sweeps.	2"	60	\$ 21.00	\$ 25.20	\$ 28.35	70	\$ 22.00	\$ 25.00	\$ 29.00
	3"	80	25.20	29.40	34.65	95	26.50	31.50	36.00
	3½"	90	36.75	44.10	52.50	130	38.00	45.00	54.00
	4"	140	42.00	49.35	57.75	170	43.00	49.00	58.00
	4½"	150	47.25	55.65	63.00				
	5"	220	52.50	60.90	70.35				
	6"	260	63.00	73.50	86.10				
CAPS — For capping conduit ends. PLUGS — For temporary closing duct ends.	2"	12	\$ 22.25	\$ 26.20	\$29.50	12	\$ 22.25	\$ 26.20	\$ 29.50
	3"	25	27.00	31.70	34.65	25	27.00	31.70	34.65
	3½"	35	36.75	44.10	52.50	35	36.75	44.10	52.50
	4"	40	42.00	49.35	57.75	40	42.00	49.35	57.75
	4½"	50	47.25	55.65	63.00				
	5"	60	52.50	60.90	70.35				
	6"	80	63.00	73.50	86.10				
BENDS — For wide radius curves. ELBOWS — For short radius curves. "S" BENDS — 20" Offset, 36" Radius	2"	525	\$166.95	\$200.35	\$233.75	700	\$184.00	\$215.00	\$247.00
	3"	800	301.35	361.60	421.90	1500	341.00	415.00	493.00
	3½"	1000	340.00	400.00	450.00	1850	350.00	425.00	505.00
	4"	1150	367.57	441.00	514.50	2200	492.00	564.00	638.00
	4½"	1325	511.35	613.60	715.90				
	5"	1625	626.85	752.20	877.60				
	6"	2125	803.25	963.90	1,124.55				
CURVED SEGMENTS — 11¼°-22½°	2"	110	\$ 74.00	\$ 85.00	\$ 98.00	200	\$140.00	\$165.00	\$185.00
	3"	120	83.00	95.00	110.00	250	165.00	200.00	225.00
	3½"	140	92.50	110.20	129.20	285	185.00	225.00	250.00
	4"	150	100.00	115.00	132.00	320	200.00	240.00	265.00
	4½"	160	110.25	130.20	149.10				
	5"	180	150.00	172.00	196.00				

ORANGEBURG
ORANGEBURG PLASTIC SPACERS

(Bridges or Separators)

PLASTIC SPACERS —

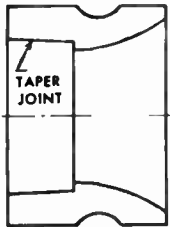


INTERMEDIATE

BASE

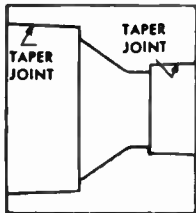
Size & Separation	Weight Pounds Per C Pcs	Per C Pcs	Size & Separation	Weight Pounds Per C Pcs	Per C Pcs
2" x 1"	7	\$ 7.00	2" x 1"	19	\$12.00
2" x 1½"	9	7.50	2" x 1½"	20	12.50
2" x 2"	10	8.00	2" x 2"	21	13.00
2" x 3"	14	9.00	2" x 3"	25	14.00
3" x 1"	9	8.00	3" x 1"	21	13.00
3" x 1½"	11	9.00	3" x 1½"	23	14.00
3" x 2"	13	11.00	3" x 2"	25	16.00
3" x 3"	17	13.00	3" x 3"	27	18.00
3½" x 1"	11	8.25	3½" x 1"	23	14.00
3½" x 1½"	13	9.25	3½" x 1½"	24	15.00
3½" x 2"	15	11.25	3½" x 2"	26	17.00
3½" x 3"	19	13.50	3½" x 3"	30	19.50
4" x 1"	13	9.00	4" x 1"	25	15.00
4" x 1½"	15	10.00	4" x 1½"	26	16.00
4" x 2"	17	12.00	4" x 2"	28	18.00
4" x 3"	23	14.00	4" x 3"	32	21.00

Prices shown are per 100 pieces for single units. For two-way, multiply by two; for three-way, multiply by three; for four-way, multiply by four.



Conduit Bell Ends

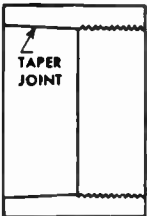
For use at conduit terminals in manholes, at substations, etc.



Conduit Reducers

For reducing from one size fibre conduit to another. Available in all combinations from 2 to 4 in., inclusive. The standard reducer is taper sleeve joint at both ends.

When ordering specify whether for Standard or Nocrete conduit and sizes involved.

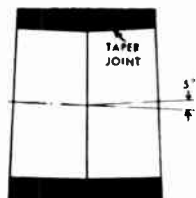


Conduit Adapters

Adapters from metal pipe to fibre conduit are available in all combinations from 2 to 4 in., inclusive.

The standard adapter is taper sleeve joint at the fibre end and threaded for metal pipe size specified. Can be supplied straight bore for unthreaded metal pipe.

When ordering specify sizes and types.

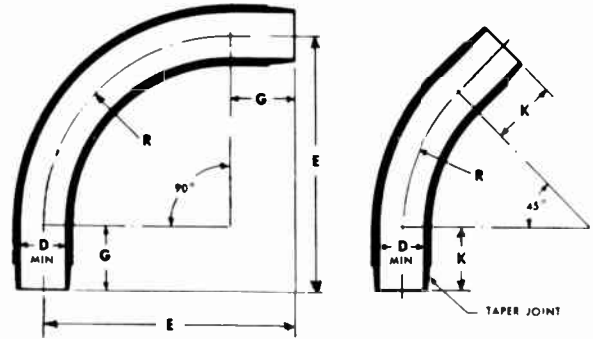


5° Angle Couplings

These couplings permit the laying of offsets, long radius bends, etc., to get around obstructions and other services which may be encountered.

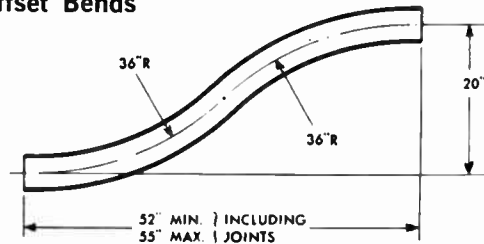
ORANGEBURG
ORANGEBURG BENDS AND ELBOWS

These fibre bends and elbows are made to the required radius and degree. Furnished with standard interchangeable taper sleeve joint (coupling included). Stock bends and elbows are listed with dimensions. Split bends and bends of special radius and degree may be made to order.

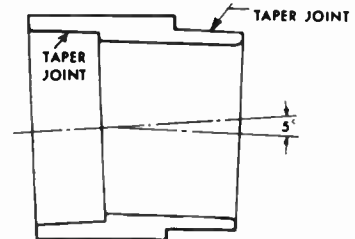


size D min	2"				3"				3.5"		4"		4 5"		5"		6"	
R	9 5	18	24	36	13	24	36	15	36	16	36	18	36	24	36	24	36	36
E	17 5	26	32	38	21	32	38	23	38	24	38	26	36	32	36	32	36	36
G	8	8	8	2	8	8	2	8	2	8	2	8	0	8	0	8	0	0
K	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

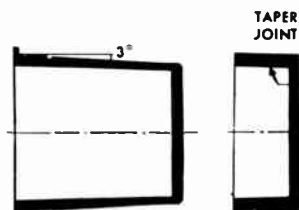
20" Offset Bends



Bend Sections — 5°-36" Radius



For special radius applications — cross-unders, transformations, obstructions. Offset male and female tapered joints tooled at an angle of 2½°, resulting in a bend section of 5°. Various degrees and length bends, offsets and spirals can be assembled in the field.



Plugs and Caps

Plugs and caps are available for standard and nocrete in all sizes.

Price on Application

PORTER XTENSIONDUCT AND METAL MOLDING

(NATIONAL ELECTRIC)



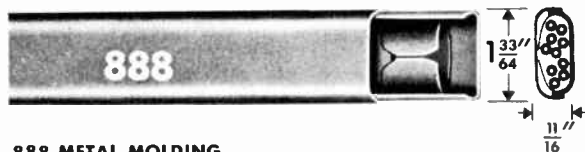
111 XTENSIONDUCT

Neutral Gray Finish — Two pieces, base and capping. Packed 20 lengths, 5 ft. long in sealed corrugated container. Wire Retaining Clips furnished with each length.



333 METAL MOLDING

Neutral Gray Finish — Two pieces, base and capping. Packed 10 lengths, 10 ft. long (100 ft.) in sealed corrugated carton. Fibre Wire Retaining Clips furnished with each length.



888 METAL MOLDING

Neutral Gray Finish — Two pieces, base and capping. Packed 10 lengths, 10 ft. long (100 ft.) in sealed corrugated container. Fibre Wire Retaining Clips furnished with each length.

111 Xtensionduct Wire Fills

Type	SINGLE CONDUCTOR					Annun- ciator	Telephone	
	No. 6	No. 8	No. 10	No. 12	No. 14		Twisted Pair	Cable
R or RH	2	3			
TW or RU	3	3	10	4	
THWN*	3	3			

333 Metal Molding Wire Fills

Type	SINGLE CONDUCTOR					Annun- ciator	Telephone	
	No. 6	No. 8	No. 10	No. 12	No. 14		Twisted Pair	Cable
R or RH	.....	2	3	6	7			Up to
TW or RU	2	3	6	8	9	25	8	1/2" dia.
THWN*	2	3	7	9	10			

888 Metal Molding Wire Fills

Type	SINGLE CONDUCTOR					Annun- ciator	Telephone	
	No. 6	No. 8	No. 10	No. 12	No. 14		Twisted Pair	Cable
R or RH	4	7	9	10	10			Up to
TW or RU	5	10	10	10	10	60	12	two 26 Pair
THWN*	6	10	12	18	21			

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg. Qty.
111	Xtensionduct Raceway	\$ 21.80	1,000 ft.
100	Low Potential Fibre Bush	4.00	250
113	Adapter	50.50	100
122	Cutting and Notching Gauge, each	5.30	1
136	90° Flat Elbow	45.40	100
137	90° External Elbow Cap	44.00	100
138	90° Internal Elbow Cap	55.20	100
139	Box Extension Adapter	139.70	50
144	Coupling	6.70	50
176	Baseboard Offset Elbow	220.10	50
333	Metal Molding Raceway	29.30	1,000 ft.
303	Adapter	No Charge	50
315	1/2" Conduit to Molding Adapter	65.30	50
317-A	90°—1/2" Box Connector	158.00	100
319	Take Off Tee	93.10	50
322-X	Bending Tool	28.00	1
323	Joint Cap	6.90	200
325	Comb. Twist Elbow or Tee	89.50	100
334	Cross	104.30	50
335	90° Flat Tee	93.10	50
336	90° Flat Elbow	42.50	100
337-A	90° External Elbow	43.20	100
337-BA	Cap	31.50	120
338-A	90° Internal Elbow	55.20	100
338-BA	Cap	41.20	120
339-X	2 1/2" Blank Cover	59.30	100
342	3"—10 amp. Device Box	136.40	50
344-X	Coupling	5.90	200
345-A	Single Strap	6.60	500
350-G	Ground Type Receptacle	342.20	20
350-T	Duplex Receptacle with T-Slots	193.40	20
351-S	Single Pole Toggle Switch S-1	283.10	20
351-S2	Single Pole Toggle Switch S-2	338.00	20
351-S3	Single Pole Toggle Switch S-3	394.40	20
351-S4	Single Pole Toggle Switch S-4	619.70	20
352	Utility Box	147.90	20
356-X	3" Keyless Receptacle	302.80	50

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg. Qty.
357	2 1/2" Keyless Receptacle	\$ 276.40	50
361	4 3/4" Split Canopy Base Plate and Closed Cover	196.90	20
362	4 3/4" Split Canopy Base Plate and Open Cover	195.50	50
365	4 3/4" Split Canopy Base Plate and Open Cover	164.40	50
365-A	Canopy Base Plate and Open Cover	164.40	50
365-X	4" Blank Cover and Open Cover	65.80	50
366	6 1/2" Canopy Base Plate	196.50	20
367	6 1/2" Split Canopy Base Plate and Open Cover	217.60	20
368	Grounding Box for Fluorescent Fixtures	101.40	10
376	Corner Box	155.30	50
380 R or L	Twist Ell	96.10	20
406	Combination Connector	74.10	50
406-1/2"-3/4"	Combination Connector	149.40	10
414-S	Molding Shear, each	63.20	100
422-X	Molding Shear, each	105.00	1
423	Cutting and Notching Gauge, each	5.80	1
437	45° Flat Elbow	131.60	100
438	One Gang Semi-Flush Switch & Receptacle Box	272.30	10
439	One Gang Surface Switch and Receptacle Box	151.00	20
439-D	One Gang Surface Switch and Receptacle Box	131.70	20
439-X	One Gang Surface Receptacle Box	133.80	20
440	Two Gang Surface Switch and Receptacle Box	285.40	10
440-D	Two Gang Surface Switch and Receptacle Box	273.60	10
440-X	Two Gang Surface Receptacle Box	262.60	10
441	One Gang Switch and Receptacle Box Adapter	144.80	20
442	Two Gang Switch and Receptacle Box Adapter	295.00	10

PORTER XTENSIONDUCT AND METAL MOLDING
(NATIONAL ELECTRIC)

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg. Qty.	Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg. Qty.
513	Three Gang Flush Device Adapter, each	\$ 6.30	5	526	Six Gang Surface Boxes for Flush Switches and Receptacles, each	\$ 12.70	1
514	Four Gang Flush Device Adapter, each	9.50	1	888	Metal Molding Raceway	55.60	60
515	Five Gang Flush Device Adapter, each	11.60	1	806-3/4"-1"	Combination Connector	210.60	20
516	Six Gang Flush Device Adapter, each	13.70	1	826	6 1/2" Canopy Base Plate and Cover	435.20	5
523	Three Gang Surface Boxes for Flush Switches and Receptacles, each	6.30	10	836	90° Flat Elbow	158.00	50
524	Four Gang Surface Boxes for Flush Switches and Receptacles, each	8.50	1	837	90° External Elbow	171.10	10
525	Five Gang Surface Boxes for Flush Switches and Receptacles, each	10.50	1	838	90° Internal Elbow	210.60	10
				839	Utility Box	235.20	10
				839-S	One Gang Surface Switch and Receptacle Box	309.20	10
				840	Distribution Box	577.20	10
				841	Wire Retaining Clip	No Charge	—
				854	Coupling	26.30	100
				876	Combination Fitting	263.30	20
				880 R or L	Twist Ell	387.00	20
				2180	1/2" Straight Box Connector	55.30	100

PORTER METAL FLORDUCT



711-A METAL FLORDUCT

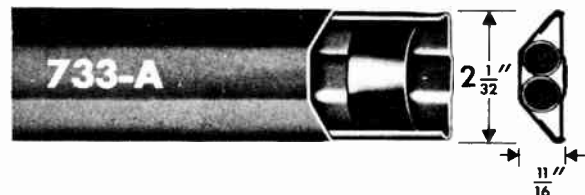
Neutral Gray Finish—Two pieces, base and capping. Packed 20 lengths, 5 feet long (100 ft.) in sealed corrugated carton. Wire Retaining Clips furnished with each length.

711-A Metal Florduct Wire Fills

Type	SINGLE CONDUCTOR					Annun- ciator	Telephone Twisted Pair
	No. 6	No. 8	No. 10	No. 12	No. 14		
R or RH	.....	2	2	4	7		
TW or RU	.....	3	4	5	9	20	4
THWN*	1	3	4	6	9		

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg.
711-A	Metal Florduct	\$ 43.80	100 ft.
715	Strap	12.80	500
716-A	90° Flat Elbow	92.60	20
738-B	Small Internal Adapter Elbow	102.70	20
765-A	Outlet Extension Cap	158.00	20
733-A	Metal Florduct	67.60	50 ft.
736-A	90° Flat Elbow	189.60	20
739-A	Internal Adapter Elbow	205.40	20
740-A	Large Internal Adapter Elbow	205.40	20
740-AR	Adapter	121.00	20
745-A	Strap	14.50	500

PORTER METAL FLORDUCT



733-A METAL FLORDUCT

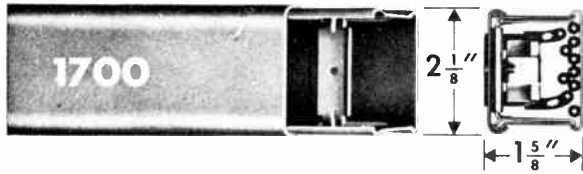
Neutral Gray Finish—Two pieces, base and capping. Packed 20 lengths, 5 feet long (100 ft.) in sealed corrugated carton. Fibre Wire Retaining Clips furnished with each length.

733-A Metal Florduct Wire Fills

Type	SINGLE CONDUCTOR					Annun- ciator	Telephone Twisted Pair	Cable
	No. 6	No. 8	No. 10	No. 12	No. 14			
R or RH	4	7	10	10	10			Up to
TW or RU	6	10	10	10	10	50	8	two 26
THWN*	8	10	12	14	16			Pair

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg.
750-A	Service Fitting	\$ 210.60	10
750-BA	Service Fitting	153.80	10
750-TA	Service Fitting	210.60	10
751-A	In and Out Fitting	205.40	10
753-A	Rubber Gasket	30.60	50
760-A	Single Plug Receptacle	189.60	10
761-HP	Duplex Floor Receptacle with T-Slots	347.50	10
761-HPG	Service Fitting	363.30	10
761-LP	Telephone Fitting	310.70	10
764-A	Metal Base	395.40	10
766-BA	Outlet Extension Cap	229.10	20
799	Wiremold Adapter	No Charge	..

PORTER 1700 SURFACEDUCT
(NATIONAL ELECTRIC)



1700 SURFACEDUCT

Neutral Gray Finish — Two pieces, base and capping. Packed 5 lengths, 10 ft. long (50 ft.) in sealed corrugated container. Capping secured in place by bridges, 4 of which are furnished with each length. 1/2" and 3/4" knockouts and mounting holes every 12" in base. Patented.

1700 Surfaceduct Wire Fills—Single Conductor

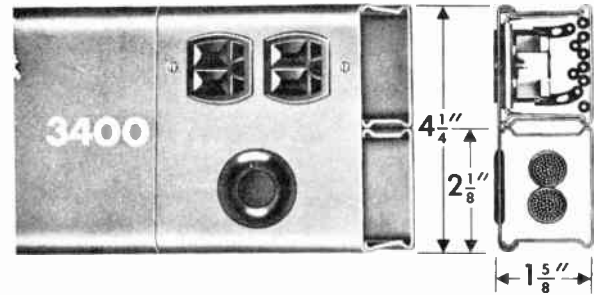
Without Devices	No. 6	No. 8	No. 10	No. 12	No. 14
Type R, RH, RHH, RHW, RH-RW	8	12	18	34	38
Type T, THW, TW, RU, RUH, RUW	12	16	18	34	54
Type THWN*	14	18	24	60	75

With Devices	No. 6	No. 8	No. 10	No. 12	No. 14
Type R, RH, RHH, RHW, RH-RW	4	6	10	14	16
Type T, THW, TW, RU, RUH, RUW	8	10	10	18	26
Type THWN*	10	14	18	28	34

*Subject to U.L. approval.

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg.
1700	Surfaceduct	\$ 95.10	50 ft.
1701	Single Receptacle Cover	115.90	10
1702	Duplex Receptacle Cover	115.90	10
1703	Toggle Switch Cover	115.90	10
1704	Single Receptacle Cover	115.90	10
1705	Single Receptacle Cover	115.90	10
1706	Single Receptacle Cover	115.90	10
1708	Fixture & Drop Cord Cover	115.90	10
1708-X	1/2" Stud Cover	138.30	10
1709	Blank Cover	115.90	10
1710-DCB	Double Circuit Breaker Box	591.20	10
1710-HB1, 2, 3	Hubbell Receptacle	115.90	10
1711-X	Device Box, each	3.40	10
1715	1 1/2" Conduit Adapter	553.10	10
1719	Fibre Bushing	48.80	10
1731	Bridge	21.10	50
1735	Combination Tee and Offset Service Fitting	471.10	10
1736	90° Flat Elbow	246.90	10
1737	External Elbow	223.80	10
1738	Internal Elbow	152.70	10
1739	Junction Box	658.20	10
1740	Device Box	921.40	10
1744	Standard Coupling	47.40	20
1744-X	Rigid Coupling	84.30	50
1780	End Block	131.70	10
1790	Hanger	145.30	10
1791	Heavy Duty Hanger	320.30	10

PORTER 3400 TWINDUCT
(NATIONAL ELECTRIC)



3400 TWINDUCT

Provides a dual-raceway system—one for high potential, the other for low-potential conductors — in one compact 0.040-gauge steel enclosure. High potential trough takes up to 12 No. 6 Awg conductors without Devices. Low-potential duct accommodates up to 50 twisted pair telephone wires or several 26 pair cables. Standard length of base, 10 feet; length of cover, 5 feet. Covers available to accommodate telephone jacks.

3400 Twinduct Wire Fills—Each Duct—Single Conductor

Without Devices	No. 6	No. 8	No. 10	No. 12	No. 14
Type R, RH, RHH, RHW, RH-RW	8	12	18	34	38
Type T, THW, TW, RU, RUH, RUW	12	16	18	34	54
Type THWN*	10	14	18	28	34

With Devices	No. 6	No. 8	No. 10	No. 12	No. 14
Type R, RH, RHH, RHW, RH-RW	4	6	10	14	16
Type T, THW, TW, RU, RUH, RUW	8	10	10	18	26
Type THWN*	10	14	18	28	34

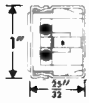
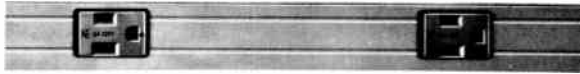
*Subject to U.L. approval.

Catalog No.	Description	Per 100 Std. Pkg.	Std. Pkg.
3400	Twinduct	\$182.60	30 ft.
3420	Blank Cover	221.20	12
3420-EB	each End Blank Cover Partition,	4.80	1
3421	Single Receptacle Cover, 1 1/2" Hole Diameter	221.20	12
3421-S	Single Receptacle Cover, 1 1/16" Hole Diameter	221.20	12
3422	Duplex Receptacle Cover	221.20	12
3423	Internal Elbow	610.80	12
3424	External Elbow	610.80	12
3425	End Blank	111.60	20
3435	Offset Tee, each	9.50	1
3436	90° Flat Elbow	610.80	12

PORTER PLUG-IN STRIPS

(NATIONAL ELECTRIC)

"PLUG-IN" STRIPS RCF2



RCF2-G and RCF2-GW are multi outlet assemblies in a steel raceway. Size is 1 inch by 2 1/2 inch. Channels are available in 3 and 6 foot lengths. Receptacles are spaced 6 or 18 inches apart. RCF2-G provides grounding facilities at every receptacle. RCF2-GW provides grounding throughout the strip by means of an extra ground wire, number 14 (Green) Insulated Ground Wire. All Channels are prewired except Fill In Strip.

Channels are prewired except Fill In Strip.

"PLUG-IN" STRIPS RCF-4



RCF4 and RCF4-GW are multi outlet assemblies in a steel raceway. Size is 1 1/4 inch by 2 1/2 inch. Channels are available in 6 foot lengths. RCF4-G provides grounding facilities at every receptacle. RCF4-GW provides grounding throughout the strip by means of an extra ground wire, number 14 (Green) Insulated Ground Wire. All channels are prewired except Fill In Strip.

(Green) Insulated Ground Wire. All channels are prewired except Fill In Strip.

RCF2 PLUG-IN STRIP MASTER CHANNELS

Catalog No.	Description	Estimated Net Price Per Length (Std. Pkg. 10 Lengths)
RCF2G-606-6	6' Strip w/12 Receptacles.	\$13.20
RCF2GW-606-6	6' Strip w/12 Receptacles.	18.40
RCF2G-606-18	6' Strip w/4 Receptacles..	8.50
RCF2GW-606-18	6' Strip w/4 Receptacles..	11.20
RCF2G-603-6	3' Strip w/6 Receptacles..	7.60
RCF2GW-603-6	3' Strip w/6 Receptacles..	10.20
RCF2-615	6' Fill In Strip.....	3.70

RCF4 PLUG-IN STRIP MASTER CHANNELS

Catalog No.	Description	Estimated Net Price Per Length (Std. Pkg. 10 Lengths)
RCF4G-606-6	6' Strip w/12 Receptacles.	\$16.40
RCF4GW-606-6	6' Strip w/12 Receptacles.	20.00
RCF4G-606-18	6' Strip w/4 Receptacles..	11.60
RCF4GW-606-18	6' Strip w/4 Receptacles..	14.50
RCF3-615	6' Fill In Strip.....	4.80

RCF2 FITTINGS

Catalog No.	Description	Estimated Net Price Per Unit (Std. Pkg.)	Std. Pkg. Qty.
RCF2-616-L	End Feed Junction Box..	\$1.20	10
RCF2-616-R	End Feed Junction Box..	1.20	10
RCF2-617-L	Straight End Feed Junction Box	1.20	10
RCF2-617-R	Straight End Feed Junction Box	1.20	10
RCF2-618	Center Feed Junction Box	1.90	10
RCF2-624	Joint Cover .....	.10	50
RCF2-636	Flat Elbow	1.50	8
RCF2-637	Exterior Elbow	1.50	10
RCF2-638	Interior Elbow	1.50	10
RCF2-644	Coupling .....	.60	20
RCF2-645	Mounting Strap .....	.04	20
RCF2-680	End Blank & Wire Nuts..	.50	20

RCF4 FITTINGS

Catalog No.	Description	Estimated Net Price Per Unit Std. Pkg.	Std. Pkg. Qty.
RCF3-616	End Feed Junction Box....	\$1.50	10
RCF3-617	Straight End Feed Junction Box	1.90	10
RCF3-618	Center Feed Junction Box..	2.20	10
RCF3-624	Splice Joint Cover.....	.10	25
RCF3-636	Flat Elbow	1.90	5
RCF3-637	Exterior Elbow	1.90	5
RCF3-638	Interior Elbow	1.90	5
RCF3-644	Coupling .....	.60	20
RCF3-645	Mounting Strap .....	.06	20
RCF3-680	End Blank and Wire Nuts..	.50	20

TOOLS COMMON TO RCF-2 AND RCF-4

Catalog No.	Description	Estimated Net Price Per Unit Std. Pkg.	Std. Pkg. Qty.
NE-600	Crimping Tool	\$7.30	1
NE-600-1	Insulator Tube	1.80	100
NE-600-2	Crimp Connector	7.00	100
RCF-623	Cutting Gauge	3.80	1
RCF-629	Device and Outlet Cover	1.40	10
CF2-961	Lumiline (Shallow Narrow Blade) .....	.70	20
CF2-961E	Lumiline (End Mount — Wide Blade) .....	.80	20

WIREMOLD TWO-PIECE SURFACE METAL RACEWAYS & MULTI-OUTLET SYSTEMS

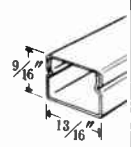
WIRE CAPACITIES

Series	Type of Wire*	Single Conductors									
		Without Devices					With Devices				
		No. 6	No. 8	No. 10	No. 12	No. 14	No. 6	No. 8	No. 10	No. 12	No. 14
1900	R, RH, RU, T, TW, THWN	..	..	..	3	3	..	..	..	..	..
	RU, T, TW	..	..	..	3	3	..	..	..	4	4
2000	R, RH, THWN	..	..	..	3	3	..	..	..	..	..
	R, RH	4	6	10	14	17	Consult Wiremold Wiring Guide for Wire Capacities with Devices.				
2100	RU, T, TW	5	8	10	14	17					
	THWN	6	10	12	18	23					
2200	RU, T, TW	5	8	10	10	10	3	7	10	10	10
	R, RH	..	4	6	10	10	..	..	..	..	..
2200	THWN	7	10	12	13	14	..	..	..	..	..
	R, RH, RW	10	14	20	40	44	4	6	10	14	16
3000	T, TW, RU	14	16	20	42	56	6	8	10	18	26
	THWN	13	18	24	55	75	..	..	..	..	..
3000	RHH, RHW, RH-RW	..	..	..	..	..	4	6	10	14	16
	THW, RUH, RUW	..	..	..	..	..	6	8	10	18	26
G-4000 (Without Divider)	RH, RHW, RUH, THW	12	14	14	37	42	8	10	15	21	21
	R, RU, RUW, T, TW, RW	12	14	14	37	42	8	10	12	16	17
G-4000 (With Divider, Power Compartment Only)	THWN	12	15	32	70	70	10	15	18	34	34
	THHN	20	26	38	70	70	10	15	18	34	34
G-6000	R, RH, RHW, RU, RUH, RUW, TW, T, THW, RW	6	10	16	22	25	4	7	11	15	17
	THWN, THHN	10	12	21	32	44	7	8	15	24	32
G-6000	R, RH, RHW, RU, RUH, RUW, RW, T, THW, THWN, TW	24	40	66	78	98	20	27	38	54	61

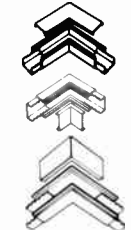
*Diameter of Conductors as Shown in N.E.C. Table 5.

WIREMOLD® 1900 AND FITTINGS

1900 RACEWAY Base and Cover .025" steel, Wiremold buff or gray. Base in 10-foot lengths, Cover in 5-foot lengths.



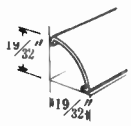
Cat. No.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.	
1900B	Base—Less than 100'	100	18	\$ 11.66
1900C	Cover—Less than 100'	100	10 1/2	8.72



Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price Per 100
1911	90° Flat Elbow	10	19 1/2	\$139.99
1917	Internal Elbow	10	15 1/2	141.66
1918	External Elbow	10	17	149.13

PLUGTRIM® 1900T

1900T PLUGTRIM .025" steel, Wiremold buff or gray. Furnished in 10-foot lengths.



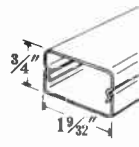
Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.	
Less than 100'	100	9	\$11.66

WIRE CAPACITY: 16 pair telephone cable.

Fittings for use with each system are partially listed, and are typical. Refer to the latest Wiremold Catalog and Wiring Guide, available from Graybar, for description of full line of fittings and accessories. Insert "G" before catalog number for gray finish.

PLUGMOLD® 2000 AND FITTINGS

2000 RACEWAY Base .040" steel, Cover .025" steel; Wiremold buff or gray. 2000B Base and 2000C Cover in 5-foot lengths. 2000B available in 10-foot lengths.



Cat. No.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.	
2000B&C	Less than 50'	50	50	\$ 29.30
2000B	Less than 100'	100	28	15.23
2000C	Less than 100'	100	21	14.81

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
2010A	Entrance End Fitting	20	15 1/2	\$ 61.25
2011	90° Flat Elbow	10	20 1/8	73.50
2017TC	Internal Corner Coupling	10	5 1/2	17.50
2018C	External Elbow Cover	5	11	41.37
2027G	Replacement Grounding Receptacle	5	14 1/2	105.00
2051H	Flush Plate Adapter	5	36 3/4	129.49

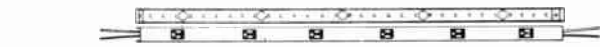
PLUGMOLD® 2000 WITH SNAPICOIL®

48' or 50' harness of prewired receptacles with base, cover, couplings, wire clips, and W30 connectors.



Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each	
20G06	1	32	\$ 51.67	
20G12	1	29 1/2	34.07	
20G18	1	29 1/2	29.65	
20G30	1	29 1/2	26.21	
20G60	1	29 1/2	23.00	
20DG Duplex Receptacle Series	20DG30	1	30 3/4	36.78
	20DG60	1	30	27.56
20GA Series — 3-Wire, 2-circuit, Grounding	20GA30	1	30 1/2	28.88
	20GA60	1	30	24.90
20DGA Duplex Receptacle Series	20DGA30	1	31 3/4	41.86
	20DGA60	1	31	39.19
20GB Series — 3-wire, Single-circuit, Grounding	20GB06	1	34	69.17
	20GB12	1	31	45.41
	20GB18	1	31	39.77
	20GB30	1	32	33.93
	20GB60	1	31	29.27

PLUGMOLD® 2000 WIRED SECTIONS

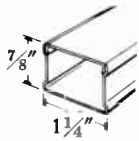


Available in 1-, 3-, 5-, or 6-foot lengths.

Cat. No.	Std. Pkg.	Wt. Lbs. per 100	Price Each	
20G306	10	200	\$ 4.31	
20G506	10	315	7.05	
20G512	10	310	4.80	
20G606	10	390	7.50	
20G609	10	380	6.51	
20G612	10	372 1/2	5.61	
20G618	10	370	4.71	
Duplex Receptacle Series	20DG106	10	87 1/2	4.50
	20GA512	10	335	5.43
	20GA609	10	400	7.28
	20GA612	10	394	6.36
	20GA618	10	400	5.48
	20GB306	10	221 1/2	5.66
	20GB506	10	355	8.55
	20GB512	10	327	6.30
	20GB606	10	425	10.41
	20GB609	10	415	8.13
	20GB612	10	393 3/4	7.59
	20GB618	10	390	6.33

WIREMOLD TWO-PIECE SURFACE METAL RACEWAYS & MULTI-OUTLET SYSTEMS

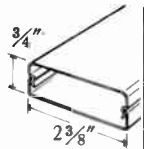
PLUGMOLD® 2100 AND FITTINGS*



2100 RACEWAY Base and Cover. .040" steel, Wiremold buff or gray. 2100B Base in 10-foot lengths; 2100C Cover in 5-foot lengths, scored every 3".

Cat. No.		Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
2100B	Less than 100'	100	41	\$ 17.70
2100C	Less than 100'	100	18 1/2	11.60
2110A	Entrance End Fitting	20	14 1/4	\$ 67.20
2111	90° Flat Elbow	20	22 1/2	85.75
2115	Tee	5	36 3/8	116.36
2117TC	Internal Corner Coupling	20	14 5/8	65.58
2118A	External Corner Coupling	10	22 3/4	103.25
2127G	Grounding Receptacle	50	19 3/8	92.75
2127GA	Grounding Receptacle 3-Wire	50	19 5/8	204.74
2140	Single Pole Switch	5	27 5/8	262.49
2151	Flush-type Extension Adapter	5	51 1/4	125.64

PLUGMOLD® 2200 AND FITTINGS*

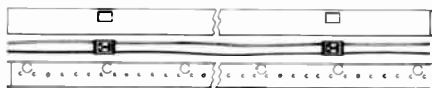


2200 RACEWAY 2200B Base and 2200C Cover .040" steel, Wiremold buff or gray, in 5-foot lengths; available as separate items in 10-foot lengths.

Cat. No.		Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
2200B&C	Less than 50'	50	92	\$ 46.94
2200B	Less than 100'	100	44	23.21
2200C	Less than 100'	100	50	25.10
2211	90° Flat Elbow	5	57 1/2	\$142.86
2217TC	Internal Corner Coupling	5	22 5/8	60.00
2218C	External Elbow Cover	5	25 1/4	92.22

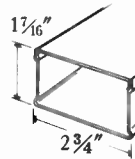
PLUGMOLD® 2200 WITH SNAPICOIL®*

48' or 50' harness of prewired receptacles with base, cover, couplings, wire clips, and W30 connectors.



	Cat. No.	Std. Pkg.	Wt. Lbs. Each	Price Each
22G Series — 2-Wire, Single-circuit, Grounding	22G18	1	50	\$43.73
	22G30	1	52	36.17
	22G60	1	51 1/2	32.30
22DG Duplex Receptacle Series	22DG30	1	52 1/4	45.94
	22DG60	1	51	38.06
22GA Series — 3-Wire, 2-circuit, Grounding	22GA30	1	52 1/2	38.26
	22GA60	1	52	34.36
22DGA Duplex Receptacle Series	22DGA30	1	53 3/4	48.56
	22DGA60	1	52 3/4	39.38
22GB Series — 3-Wire, Single-circuit, Grounding	22GB18	1	50	51.71
	22GB30	1	54 1/2	50.66
	22GB60	1	53 1/2	41.24

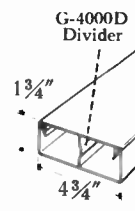
PLUGMOLD® 3000 AND FITTINGS*



3000 RACEWAY 3000B Base and 3000C Cover .040" steel, Wiremold buff or gray. 3000B in 10-foot lengths, 3000C in 5-foot lengths; available as separate items.

Cat. No.		Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
3000B&C	Less than 50'	50	121	\$ 52.40
3000B	Less than 100'	100	81	33.92
3000C	Less than 100'	100	41	18.90
3007C	Device Bracket	50	20 7/8	\$ 45.06
3008A	Hanger Clamp	50	24	108.33
3010A	Entrance End Fitting	20	29 1/4	75.00
3011	90° Flat Elbow	10	55 3/4	140.60
3014C	Wall Box Connector	5	61 1/2	111.00
3015	Tee	10	166 1/4	268.36
3017TC	Internal Corner Coupling	10	48	87.00
3018A	External Corner Coupling	5	65 3/4	127.50
3028	Utility Box	5	197	375.01
3046B	Duplex Receptacle Cover	50	20 1/4	77.00
3046KD	Circuit Breaker Housing	10	154 1/4	336.88

PLUGMOLD® G-4000 AND FITTINGS



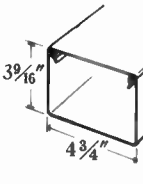
G-4000 RACEWAY G-4000B Base .050", G-4000C Cover and G-4000D Divider .040" galvanized steel. Furnished separately: G-4000B in 10-foot, and G-4000C in 5-foot lengths, gray outside; G-4000D in 5-foot lengths, Wiremold buff one side.

Cat. No.		Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
G-4000B	Less than 20'	20	150	\$ 59.40
G-4000C	Less than 20'	20	90	36.37
G-4000D	Less than 20'	20	23 3/4	13.13
G-4001D	Divider Clip and Coupling	50	14	\$ 22.25
G-4007C-1	1-gang Device Plate	5	39	76.36
G-4010B	Blank End Fitting	5	31	79.38
G-4046J	Combination Single Receptacle and Telephone Outlet Cover	5	43	99.84
G-4046B	Combination Duplex Receptacle and Telephone Outlet Cover	5	41	99.84

Fittings for use with each system are partially listed, and are typical. Refer to the latest Wiremold Catalog and Wiring Guide, available from Graybar, for description of full line of fittings and accessories. *Insert "G" before catalog number for gray finish.

WIREMOLD TWO-PIECE SURFACE METAL RACEWAYS & MULTI-OUTLET SYSTEMS

PLUGMOLD® G-6000 AND FITTINGS

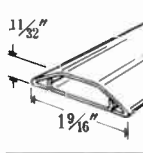


G-6000 RACEWAY G-6000B Base .060", and G-6000C Cover .040", galvanized steel, gray outside, furnished separately in 4-foot lengths.

Cat. No.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price per 100
G-6000B	Less than 20'	20	\$101.13
G-6000C	Less than 20'	20	36.37

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
G-6007C-1	1-gang Device Plate	10	27 1/2	\$87.42
G-6007C-2	2-gang Device Plate	5	44 1/2	117.30
G-6011TX	Combination Flat Elbow	10	294	336.34
G-6014A	Connector Fitting	1	375	426.56
G-6017TX	Combination Internal-External Elbow	10	275	316.31
G-6046KD	Circuit Breaker Housing	1	136 3/4	7.91

PANCAKE® OVERFLOOR SYSTEM AND FITTINGS



1500 RACEWAY. .040" steel, galvanized. Furnished in 10-foot lengths, available in 5-foot lengths.

Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
Less than 100'	100	\$24.05

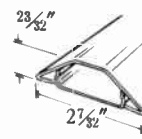
WIRE CAPACITIES

Type of Wire	Single Conductor					Telephone Type JKT Wire		
	No. 6	No. 8	No. 10	No. 12	No. 14	JKT-2	JKT-3	JKT-4
R, RH	..	..	..	4	4	JKT-2	JKT-3	JKT-4
RU, T, TW	..	4	4	6	8	5*	5*	4*
THWN	2	3	5	8	10	6†	6†	5†

*With 1500WC Wire Clips. †Without clips.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
1511	90° Flat Elbow	20	15	\$67.56
1517	Internal Elbow	20	20 3/4	74.35
1517A	Adapter Fitting	20	15	87.50
1518	External Elbow	5	24 3/8	98.00
1524A	Narrow Telephone Outlet	10	26 1/2	107.40
1542D	Junction Box	20	35 1/2	105.00
1543GL	Grounding Duplex Receptacle	20	81 1/4	241.49

PANCAKE® 2600 OVERFLOOR SYSTEM AND FITTINGS



2600 RACEWAY. Cover .050" and Base .040" steel, galvanized. Furnished in 10-foot lengths, available in 5-foot lengths.

Less than 50'	Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
	50	80	\$37.07

WIRE CAPACITIES

Type of Wire	Power — Single Conductor				
	No. 6	No. 8	No. 10	No. 12	No. 14
R, RH	2	4	6	10	10
RU, T, TW	4	7	8	10	10
THWN	6	8	10	14	16

Telephone: Three 25-pair cables or two 50-pair.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
2611	90° Flat Elbow	10	40	\$108.00
2617T	Telephone Elbow	10	35	117.00
2642H	Telephone Outlet	40	71	145.50
2644T	Connecting Block Fitting	10	195	487.51

FLUORESCENT LIGHTING UNITS & ACCESSORIES

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
2021LA	Light Adapter	20	38 3/4	\$218.74

20A SERIES FLUORESCENT UNITS White Finish

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price Each
20A-7 20" Long	For 1-15 Watt Lamp. With FS-2 Starter, Slide Switch, 6-foot Cord and Plug, 2 Mtg. Clips.	10	225	\$ 7.20
20A-10 21 1/2" Long	For 1-15 Watt lamp. With FS-2 Starter, 3" Leads, 2 Mtg. Clips.	10	227 1/2	5.85
20A-11 41 1/4" Long	For 2-15 Watt Lamps. With FS-2 Starter, 3" Leads, 2 Mtg. Clips.	10	425	11.93
20ARK	Reflector Kit	10	55	2.13

20SW RAPID START UNITS White Finish

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price
20SW36RS 37 3/8" Long	For 1-30T12/RS Lamp	6	215 1/2	\$5.25
20SW48RS 49 3/8" Long	For 1-40T12/RS Lamp	6	283	5.63

20SW SLIMLINE UNITS White Finish

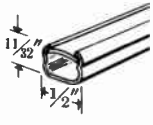
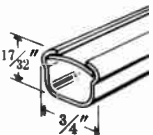
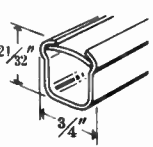
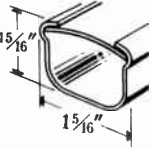
Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price
20SW42 43 1/2" Long	For 1-42T6 Lamp	6	250	\$5.25
20SW48 49 1/2" Long	For 1-48T12 Lamp	6	283	5.63
20SW64 65 1/2" Long	For 1-64T6 Lamp	6	373	6.15
20SW72 73 1/2" Long	For 1-72T8 or 1-72T12 Lamp	6	416	6.75
20SW96 97 1/2" Long	For 1-96T8 or 1-96T12 Lamp	6	550	7.47

Fittings for use with each system are partially listed, and are typical. Refer to the latest Wiremold Catalog and Wiring Guide, available from Graybar, for description of full line of fittings and accessories.

WIREMOLD SURFACE METAL RACEWAYS AND MULTI-OUTLET SYSTEMS

Fittings for use with each system are partially listed, and are typical. Couplings (not shown) are furnished with all one-piece raceways; Plugmold® 2000, Snapicoil® and Wired Sections; and Plugmold 2200 Snapicoil. Couplings must be purchased separately for two-piece raceways. Refer to the latest Wiremold Catalog and Wiring Guide, available from Graybar, for description of full line of fittings and accessories. Wiremold systems are completely inter-connectable with each other and with other types of wiring systems.




ONE-PIECE SURFACE WIRING SYSTEMS




	200 RACEWAY .025" steel, Wiremold buff finish. Furnished in 5-foot lengths, with coupling.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
	Less than 100'	100	14½	\$13.13
	500 RACEWAY .040" steel, Wiremold buff finish. Furnished in 10-foot lengths with coupling.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
	Less than 100'	100	31	\$15.85
	700 RACEWAY .040" steel, Wiremold buff finish. Furnished in 10-foot lengths with coupling.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
	Less than 100'	100	36	\$17.75
	1000 RACEWAY .040" steel, Wiremold buff finish. Furnished in 10-foot lengths with coupling.	Ft./Std. Pkg.	Wt. Lbs. /100 Ft.	Price /100 Ft.
	Less than 100'	100	62½	\$29.10

WIRE CAPACITIES




Type of Wire	Cat. No.	Single Conductor							
		No. 6	No. 8	No. 10	No. 12	No. 14	No. 16	No. 18	
R RH	200	..	..	..	2	3	4	4
	500	..	..	2	4	5	6	6
	700	..	2	3	6	7	10	10	
	1000	4	5	6	10	10	24	24	
RU T TW	200	..	..	..	3	3	6	8
	500	..	2	4	6	6	10	10	
	700	..	3	6	8	8	16	18	
	1000	5	8	8	10	10	40	50	
THWN	200	..	..	..	3	3	..	..
	500	..	2	4	7	8	..	..
	700	2	3	6	10	11	..	..
	1000	6	10	10	18	21	..	..

FITTINGS FOR USE WITH WIREMOLD® 200











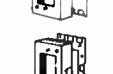
	Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
	W30	Pressure Type Wire Connector	50	1¾	\$ 17.50
	203	Supporting Clip	100	1¼	4.67
	211	90° Flat Elbow	20	4⅝	30.32

	Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
	217	Internal Elbow	40	10⅞	\$ 59.50
	218	External Elbow	30	4⅝	40.25
	251	Extension Adapter	20	31¼	79.60





FITTINGS FOR USE WITH WIREMOLD® 200, 500 & 700

	57240	Single Pole Switch and Box	20	50	\$188.16
	57242	Utility Box	20	43¾	92.28
	57243G	Duplex Grounding Receptacle and Box	40	56¼	227.49

FITTINGS FOR USE WITH WIREMOLD® 500 & 700

	511	90° Flat Elbow Used with Wiremold 500	80	14⅞	\$ 25.82
	5715	Tee	20	22⅞	61.86
	517	Internal Elbow Used with Wiremold 500	50	18⅝	31.58
	518	External Elbow Used with Wiremold 500	50	14¾	30.80
	5719D	Corner Box	10	39⅞	103.25
	5726	Keyless Receptacle	20	44⅞	201.24
	5734	Blank Extension Box	20	66¾	112.13
	5735	Distribution Box	10	93½	155.72
	5738	Fixture Box, Solid Base	20	62⅞	118.20
	5747	Shallow Switch and Receptacle Box	50	57	87.50
	5751	Flush Type Extension Adapter	40	42¼	96.25

FITTINGS FOR USE WITH WIREMOLD® 1000

	1011	90° Flat Elbow	10	66⅝	\$ 90.00
	1017	Internal Elbow	5	77	142.86
	1018	External Elbow	5	40⅝	114.29
	1035	Distribution Box	5	188	378.53

**PORTER NEPCODUCT
"K" SYSTEM**

(NATIONAL ELECTRIC)



7055K Nepcoduct System

K type Nepcoduct is an electrical raceway system made of 14 gauge steel. It provides convenient outlets at the floor surface. This system can be used for both high and low potential wiring. Nepcoduct may be used as a single duct system or in multiples of two or three ducts for additional capacity and to provide separate wiring facilities for light, power, telephone and signal circuits. All outlets are threaded. Nepcoduct is protected from corrosion by a zinc covering plus a special polyvinyl acid-resistant coating. Listed by Underwriters Laboratories, Inc., K Duct is used on many jobs in conjunction with H Duct because they complement each other in providing the proper channel space to accommodate wiring requirements. See Service Fittings section for desired fittings you require.

Cat. No.	Nepcoduct Description	Estimated Price/Ft.
7055	10' Blank	\$1.20
7055-K	10' w/5 outlets 24" O.C. 2" pipe size threaded 1" high*	1.50
7055-K	With 5 outlets 24" O.C. 2" pipe size threaded 1½" to 1⅞" high	1.66
7055-K	With 5 outlets 24" O.C. 2" pipe size threaded 2" to 2⅜" high	1.84
7055-K	With 5 outlets 24" O.C. 2" pipe size threaded 2½" to 3" high	2.00

*For duct with outlets up to and incl. 1⅞" high—use price above.

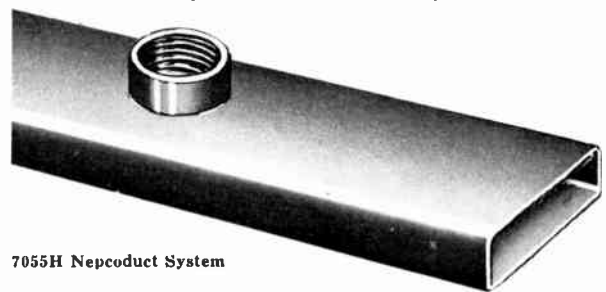
Note:

- 1) For outlets higher than 3" refer to factory.
- 2) For outlets closer than 24" O.C. add .25 per outlet.
- 3) For outlets 30" O.C. use standard price.
- 4) All prices based on 14 gauge steel electro-galvanized duct with M.V.C. coating.
- 5) All outlets are die cast zamak with standard 2" pipe thread.
- 6) For 1½" outlet size type L duct corresponding price on K duct outlet height—consult factory for delivery—type "L" duct is not stock material.

A complete line of Junction Boxes, Saddle Supports, Couplings, Linoleum Pans, Outlet Adapters, Outlet Extensions, Reducers, Afterset Inserts, Flat and Vertical Elbows, Marker Screws and Special Fittings are available with this product line.

**PORTER NEPCODUCT
"H" SYSTEM**

(NATIONAL ELECTRIC)



7055H Nepcoduct System

H type Nepcoduct is an electrical raceway system made of 14 gauge steel. It is used as a power raceway or telephone and communications systems for modern office buildings requiring network teletype, data processing and extensive communications systems. All outlets are threaded. Large duct area eliminates congestion of large size cable feeds and facilitates cable pulling. H type Nepcoduct is protected from corrosion by a zinc covering plus a special polyvinyl acid-resistant coating. Listed by Underwriters Laboratories, Inc.

H Duct is used on many jobs in conjunction with K Duct because they complement each other in providing the proper channel space to accommodate wiring requirements. See Service Fittings section for desired fittings you require.

Cat. No.	Nepcoduct Description	Estimated Price/Ft.
7005-H	10' Blank	\$3.20
7055-H	10' w/5 outlets 24" O.C. 2" pipe size threaded 1" high*	4.00
7055-H	With 5 outlets 24" O.C. 2" pipe size threaded 1½" to 1⅞" high	4.16
7055-H	With 5 outlets 24" O.C. 2" pipe size threaded 2" to 2⅜" high	4.34
7055-H	With 5 outlets 24" O.C. 2" pipe size threaded 2½" to 3" high	4.50

*For duct with outlets up to and incl. 1⅞" high—use price above.

Note:

- 1) For outlets higher than 3" refer to factory.
- 2) For outlets closer than 24" O.C. add .25 per outlet.
- 3) For outlets 30" O.C. use standard price.
- 4) All prices based on 14 gauge steel electro-galvanized duct with M.V.C. coating.
- 5) All outlets are die cast zamak with standard 2" pipe thread.
- 6) For 1½" outlet size type L duct corresponding price on K duct outlet height—consult factory for delivery—type "L" duct is not stock material.

A complete line of Junction Boxes, Saddle Supports, Couplings, Linoleum Pans, Outlet Adapters, Outlet Extensions, Reducers, Afterset Inserts, Flat and Vertical Elbows, Marker Screws and Special Fittings are available with this product line.

**PORTER 14000 SERIES HEADERDUCT
(NATIONAL ELECTRIC)**



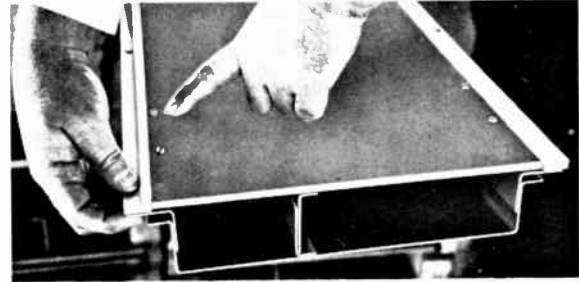
A rugged rectangular pre-galvanized 14 gauge steel duct 1 3/8" deep by 7 3/4" wide. This complete system offers power-light-communication raceway distribution from panel to floor cell. This system can be installed as a two piece or one piece system. The two piece system eliminates waste, reduces cutting and allows maximum access to cellular floor since cover is removed.

Junction units are an integral part of the duct lengths designed to eliminate the raised spots and depressions that occur because of minor variations in the level of the concrete. Three accessible flush screws makes the junction unit ring adjustment easily.

Floor Taps, Grommets, Marker Screws, Abandon Outlet Plates, Elbows, Duct Straps, Capping Plate, Linoleum Pans, Cross Boxes, Hand Hole Boxes, Adapter Ducts, Cell to Conduit Connectors and Elbows, Standpipe Fittings and other miscellaneous fittings round out this complete product.

Catalog No.	Headerduct Description	Est. Price/Ft.
14000-R	Blank 10 ft. length	\$ 3.30
14012-RAC	8 ft. lgth. 8 Capped Openings . . .	6.60
14012-RAZ	8 ft. length	
	8 Junction Units Zamac	13.80
14012-RAT	8 ft. length	
	8 Junction Units Terrazzo	31.60
14012-RACZ	8 ft. lgth. 4 Capped Openings & 4 Junction Units Zamac	10.20
14018-RAC	9 ft. lgth. 6 Capped Openings . . .	6.20
14018-RAZ	9 ft. length	
	6 Junction Units Zamac	11.20
14018-RAT	9 ft. length	
	6 Junction Units for Terrazzo	25.80
14018-RACZ	9 ft. lgth. 3 Capped Openings & 3 Junction Units Zamac	9.00
14024-RAC	8 ft. lgth. 4 Capped Openings . . .	5.50
14024-RAZ	8 ft. length	
	4 Junction Units Zamac	9.20
14024-RAT	8 ft. length	
	4 Junction Units for Terrazzo	21.20
14024-RACZ	8 ft. lgth. 2 Capped Openings & 2 Junction Units Zamac	7.20
14036-RAC	9 ft. lgth. 3 Capped Openings . . .	4.80
14036-RAZ	9 ft. length	
	3 Junction Units Zamac	8.00
14036-RAT	9 ft. length	
	3 Junction Units for Terrazzo	18.40
14048-RAC	8 ft. lgth. 2 Capped Openings . . .	4.50
14048-RAZ	8 ft. length	
	2 Junction Units Zamac	6.00
14048-RAT	8 ft. length	
	2 Junction Units for Terrazzo	13.80
14060-RAC	10 ft. lgth. 2 Capped Openings . .	5.60
14060-RAZ	10 ft. length	
	2 Junction Units Zamac	6.20
14060-RAT	10 ft. length	
	2 Junction Units for Terrazzo	11.60
14072-RAC-1	9 ft. 1 Capped Opening	4.80
14072-RAC-2	9 ft. 2 Capped Openings	5.80
14072-RAZ-1	9 ft. 1 Junction Unit Zamac	5.10
14072-RAZ-2	9 ft. 2 Junction Units Zamac	6.50
14072-RAT-1	9 ft. 1 Junction Unit for Terrazzo	8.10
14072-RAT-2	9 ft. 2 Junction Units for Terrazzo	12.50

**PORTER TRENCHDUCT
(NATIONAL ELECTRIC)**

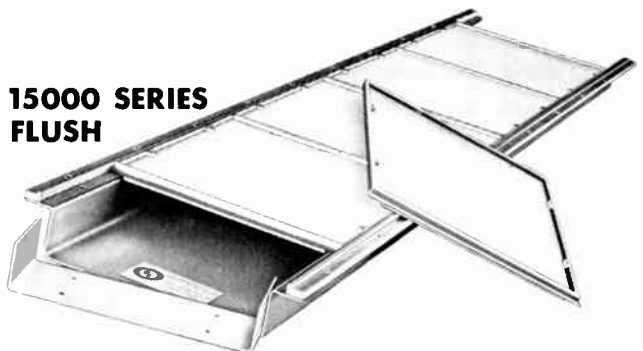


Trenchduct is a rugged pre-galvanized 14 gauge steel duct available in cover width sizes of 9, 12, 18, 24, 30 and 36 inches by 2 3/8" minimum and 3 1/8" maximum depth for both adjustable and non-adjustable. This system is designed to provide the distribution capacity necessary to energize a cellular steel floor. Made with one or more compartments to accommodate all high and low potential systems in one duct run. Removable cover plates permit access to wiring at any point. A complete line of fittings include flat elbows, tee boxes, cross boxes, riser duct, 90° vertical elbows, end blanks, cabinet connectors and trim strips.

Non-Adjustable Trenchduct—Std. Length 6'0";
Cover Length 3'0"; Trench Depth 2 1/2"

Cat. No.	Cover Width	Sq. In. Cap.	Est. Price/Ft.
15000-9	9"	15.9	\$24.00
15000-12	12"	22.3	28.00
15000-18	18"	35.0	36.00
15000-24	24"	47.8	48.00
15000-30	30"	60.5	60.00
15000-36	36"	73.3	72.00

**15000 SERIES
FLUSH**

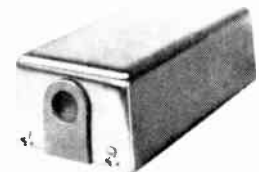
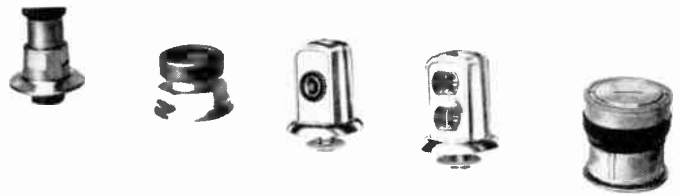


Flush-type 15000 Series Headerduct is a rugged pre-galvanized 14 gauge steel duct 2 1/2" deep by 10" wide. This system offers a large header capacity for telephone and power lines to be used as a feeder to the cellular floor. Removable rib-reinforced cover plates of die cast aluminum butt to form top of duct, permitting access to wiring at any point. Flush plates for carpet covering or recessed plates for the flooring are standard. A complete line of fittings include floor and wall elbows, tee boxes, panel duct and cabinet connectors. Standard duct length is 5 feet.

Cat. No.	Description	Estimated Price/Ft.
15003	Headerduct 3 ft. lgth. with Lino Trim for 1/8" tile	\$30.00
15005	Headerduct 5 ft. lgth. with Lino Trim for 1/8" tile	30.00
15003-F	Flush Headerduct 3 ft. lgth.—no trim for use in carpet area . .	30.00
15005-F	Flush Headerduct 5 ft. lgth.—no trim for use in carpet area . .	30.00

PORTER SERVICE FITTINGS
(NATIONAL ELECTRIC)

Porter makes a complete line of service fittings in brass, aluminum and steel for high and low potential usage. Each fitting is designed to fit our underfloor raceway and competitive systems.



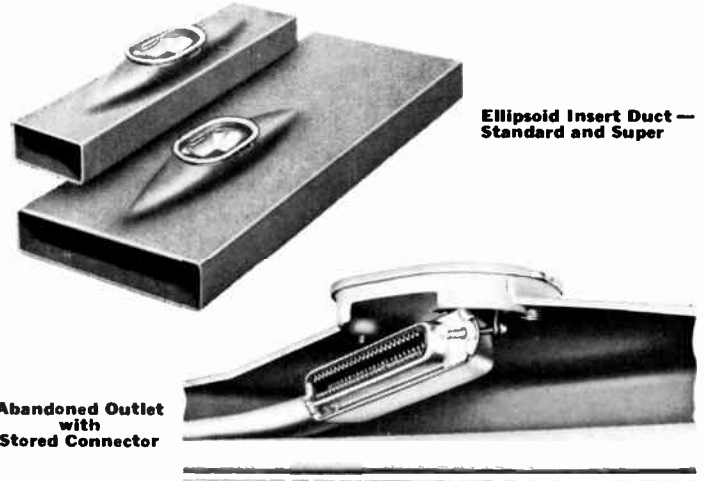
Catalog No.	Description	Each
7800	Svc. fit. (inc. brass housing & plug, prot. nozzle & gasket)...	\$10.00
7903-G	Svc. fit. brass for 1.315 out. w. 3 wire, 15 a. 125 v. dup. recep. gr.	13.00
7903-GC	Svc. fit. cast alum. for 1.315 o. w. 3 wire 15 a. 125 v. dup. recep. gr.	13.00
7903-LG	Svc. fit. brass for 1 1/2" o. w. 3 wire	13.00
7903-KG	Ditto—2" pipe size	13.00
7903-LGC	Svc. fit. die cast alum. 3-wire 15 a. 125 v.	13.00
7903-KGC	Ditto—2" pipe size	13.00
7903-LS	Svc. fit. brush brass 20 a. 2-wire 250 v. single recep.	13.00
7903-KS	Ditto—2" pipe size	13.00
7903-LSC	Svc. fit. die cast alum. 20 a. 2-wire 250 v. single recep. twist.	13.00
7903-KSC	Ditto—2" pipe size	13.00
7903-LST	Svc. fit. brush brass 20 a. 3-wire 250 v. single recep. twist.	15.00
7903-KST	Ditto—2" pipe size	15.00
7903-LSTC	Svc. fit. die cast alum. 20 a. 3-wire 250 v. single recep. twist.	15.00
7903-KSTC	Ditto—2" pipe size	15.00
7904-L	Svc. fit. brush brass for 1.900" dia. w/one 1" comp. bush. for telephone, signal circuit con. 7901-L adapter	11.00
7904-K	Ditto—2" pipe size	11.00
7904-LC	Svc. fit. die cast alum. for 1.900" dia. w/one 1" comp. bushing for telephone, signal circuit conn. incl. 7901-L adapter	11.00
7904-KC	Ditto—2" pipe size	11.00
7904-LD	Svc. fit. brush. brass for 1.900" dia. w/one 1" comp. bushing on each —incl. 7901-L adapter	11.00
7904-KD	Ditto—2" pipe size	11.00
7904-LDC	Svc. fit. die cast alum. for 1.900" dia. o. w/one 1" comp. bushing on sides—incl. 7901-L adapter.	11.00
7904-KDC	Ditto—2" pipe size	11.00
7904-LB	Svc. fit. brush brass w/buzz call	13.00
7904-KB	Ditto—2" pipe size	13.00
7904-LBC	Svs. fit. die cast alum. w/buzz call	13.00
7904-KBC	Ditto—2" pipe size	13.00

Catalog No.	Description	Each
7905	Conn. block 4-wire or 2 circuit to replace splices in 7904-L or 7904-LC svc. fit.	\$ 1.30
7906-LC4	Svc. fit. die cast alum. to accom. 4 —#44A W. Term. Blocks.	14.00
7906-KC4	Svc. fit. die cast alum. to accom. 4 —#44A W. Term. Blocks.	14.00
7906-LC	Svc. fit. die cast alum. designed to accom. 6—#44A W. Ter. Blocks plus 1 buzzer or cable to cable conn.	24.00
7906-KC	Ditto—2" pipe size	24.00
7907-LC	Svc. fit. die cast alum. for 1.900" dia. o. 30 a. 3-wire 250 v. polar. recep.	20.00
7907-KC	Ditto—2" pipe size	20.00
7908-LC	Svc. fit. alum. for 1.900" dia. o. 50 a. 3-wire 250 v. polar. recep.	30.00
7908-KC	Ditto—2" pipe size	30.00
7931-L	Flush low pot. floor o. & sheath for 1.900" dia.	12.00
7931-K	Ditto—2" pipe size	12.00
7933-L	Flush floor recep. & attach. plug 15 a. 125 v. 3-wire gr. type recep. for 1.900" dia. o.	20.00
7933-K	Ditto—2" pipe size	20.00
7937-L-3/4"	Brass standpipe 3/4" bushed open.	10.00
7937-K-3/4"	Ditto—2" pipe size	10.00
7937-L-1"	Brass standpipe 1" bushed open.	11.00
7937-K-1"	Ditto—2" pipe size	11.00
7937-L-1 1/2"	Brass standpipe 1 1/2" bushed open.	13.00
7937-K-1 1/2"	Ditto—2" pipe size	13.00
7937-K-2"	Alum. standpipe 2" bushed open.	16.00
7903-P	Blank Plate for cast alum. svc. fit.	1.00
7903-P-1	Plate for cast alum. svc. fit. for stand. recep. used in 7903-KSC and 7903-KSTC	1.00
7903-P-2	Plate for cast alum. svc. fit. for stand. duplex "T" slot or duplex "U" slot gr. recep.	1.00
7903-P-3	Plate for cast alum. svc. fit. for recep. used in 7907-08-KC	1.00
7904-P-1	Plate for cast aum. svc. fit. w/1" comp. bushing	1.00
7950	Svc. fit. alum. "Top Hat" type for tel. & signal wiring for 2" pipe outlet	11.00
7950-L	Svc. fit. ditto above for 1 1/2" pipe o.	11.00
7950-F	Svc. fit. ditto above for flushduct o.	11.50
7960-HK	Svc. fit. alum. "Top Hat" type for power w/2 single 15 a. 3-wire 125 v. recep. for 2" pipe outlet.	13.00
7960-L	Svc. fit. ditto above for 1 1/2" pipe o.	13.00
7960-F	Svc. fit. ditto for flushduct outlet.	13.50

SQUARE D UNDERFLOOR RACEWAY SYSTEMS
THE NEW DESIGN IN UNDERFLOOR DUCT INSERTS

This new insert is a departure from the cylindrical insert always used in the past. The advantage of the ellipsoid is that the larger opening and greater effective turning radius makes fishing and pulling simple and easy. It is now practical to use the duct for industrial applications as the longer opening will permit the use of heavy power cables. It has excellent uses in office buildings, where the larger cables for Key, Call Director and Call Commander telephones can be pulled and even looped through one of these new inserts.

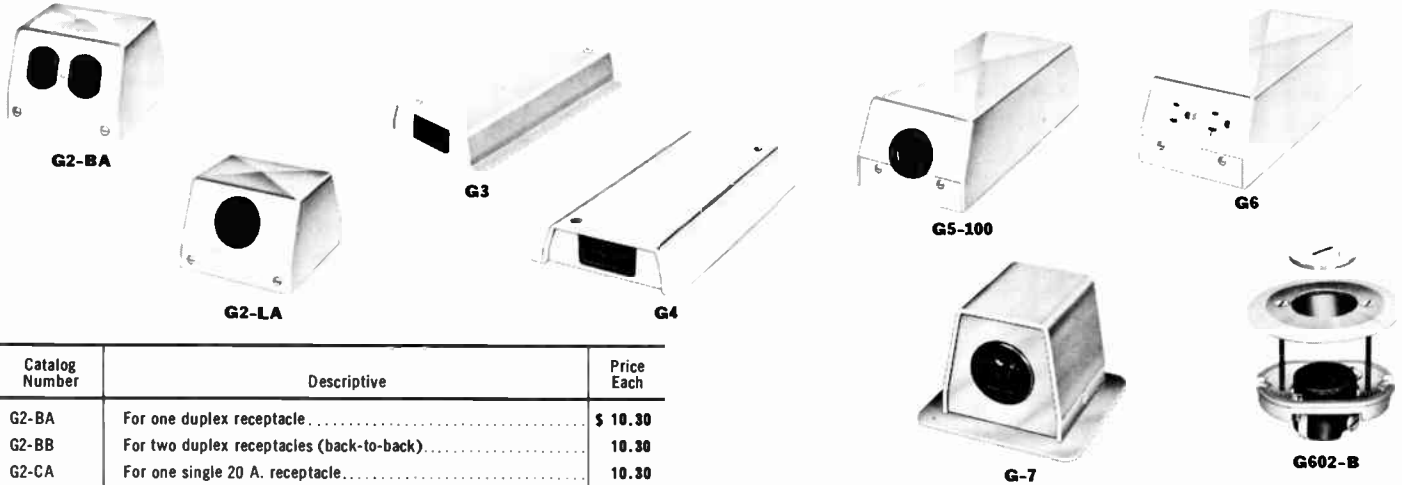
The "Dedicated Service" concept becomes even more practical with the use of Square D ellipsoid insert duct. Abandoning Amphenol terminated telephone cables is possible without removing the connectors now that the necessary underfloor duct equipment is available in the Square D line. The abandon outlet fitting in the ellipsoid insert has provision for storing the Amphenol connector and the flush floor fitting with the high tension receptacle provides for terminating the power wires. Thus when the station is changed, the connector can be recessed within the insert and left in that position. When reactivated at a later date, by relocation of office personnel, there is no interruption of office procedure. The same technique can be used with raw-ended station cable.



Ellipsoid Insert Duct — Standard and Super

Abandoned Outlet with Stored Connector

SERVICE FITTINGS AND ASSOCIATED ITEMS

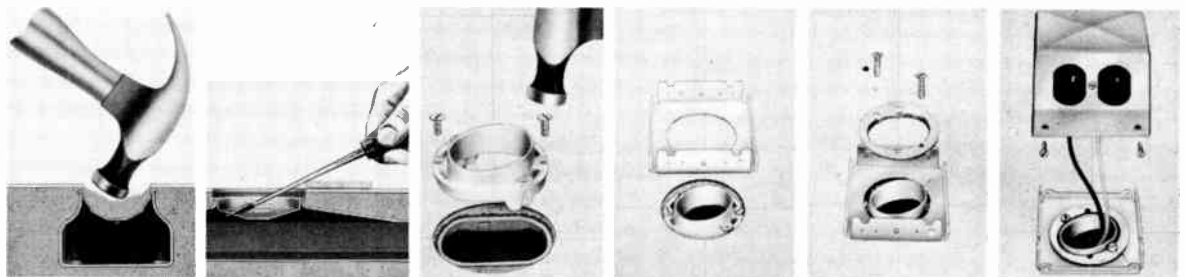


Catalog Number	Descriptive	Price Each
G2-BA	For one duplex receptacle	\$ 10.30
G2-BB	For two duplex receptacles (back-to-back)	10.30
G2-CA	For one single 20 A. receptacle	10.30
G2-CC	For two single 20 A. receptacles	10.30
G2-LA	Includes 3/4" bushed opening	10.30
G2-LL	Two 3/4" bushed openings	10.30
G3	For single amphenol connector	10.30
G4	For double amphenol connector	12.40
G5	For five-amphenol connector	16.50
G6	Combination power and telephone	20.60
G7-CA	For one single 15 A. receptacle	10.30
G7-CC	For two single 15 A. receptacles	10.30
G7-LA	Includes 1" bushed opening	10.30
G7-LL	Includes two 1" bushed openings	10.30
G602-B	Flush type with 15 A. receptacles	13.40
G602-L	Flush type for telephone cable	12.40
G702-100-3	One inch diameter standpipe	9.30

Catalog Number	Descriptive	Price Each
G202	Abandoned outlet assembly	\$ 4.10
G1471-0875	Afterset insert 3/8" H.	2.10
G1471-1375	Afterset insert 1 1/4" H.	2.10
G132	Bracket assembly for G6 fitting for 10 Western Electric 44 A. Terminal Blocks	2.10
G133	Bracket assembly for G2-LA filling, for 4 Western Electric 44 A. Terminal Blocks	2.10
G1701	Closing tool, hand-operated for afterset inserts	37.00
G1705-2.5	Hole saw for aftersets	20.60
G1710	Insert finder, electronic	155.00
G1711	Insert finder, magnetic	31.00

NOTE: All service fittings listed are of satin aluminum finish. Other finishes available.

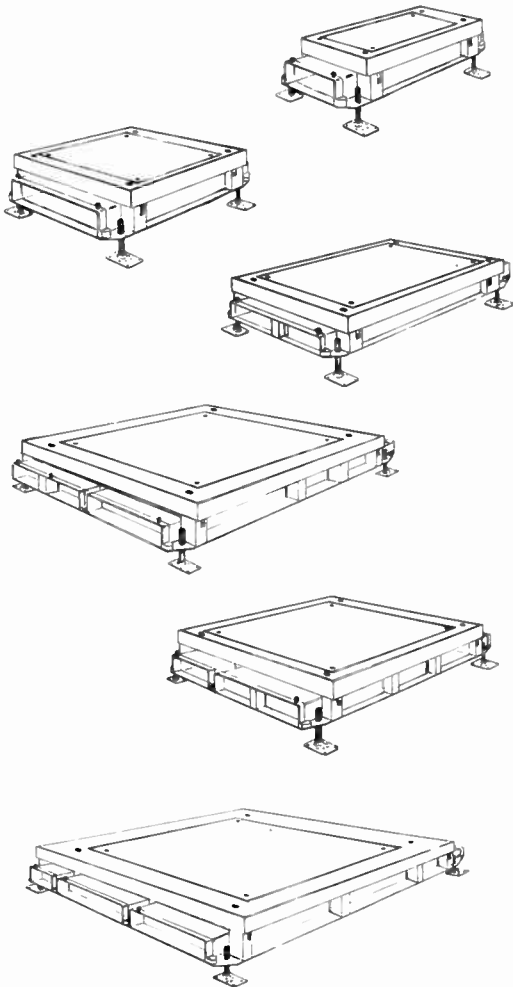
EASY INSTALLATION
 Special screws provided can be installed with either hammer or screw driver.
 Provision for overpour is easily made with longer standard screws.



The above items are subject to 50% Discount.

SQUARE D UNDERFLOOR RACEWAY SYSTEMS — JUNCTION BOXES

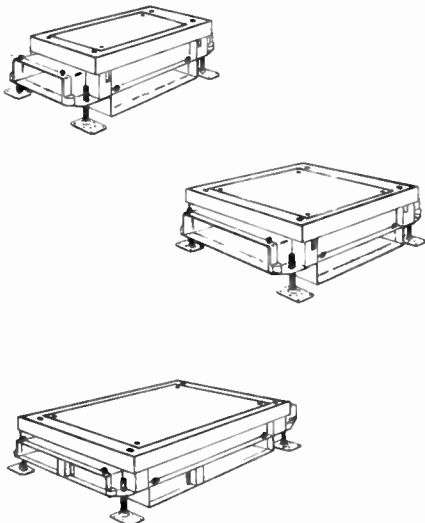
SINGLE LEVEL BOXES



Catalog Number	Duct Arrangement	For Duct Insert Ht.	Price Each
GS12-07-P0	□ by □	3/8"	\$ 48.00
GS12-13-P0	□ by □	1 3/8"	48.00
GS22-07-P1	□ □ by □ □	3/8"	60.00
GS22-13-P1	□ □ by □ □	1 3/8"	60.00
GS22-07-P0	□ by □	3/8"	60.00
GS22-13-P0	□ by □	1 3/8"	60.00
GS23-07-P2	□ □ by □ □	3/8"	78.00
GS23-13-P2	□ □ by □ □	1 3/8"	78.00
GS33-07-P3	□ □ □ by □ □ □	3/8"	95.00
GS33-13-P3	□ □ □ by □ □ □	1 3/8"	95.00
GS33-07-P2	□ □ by □ □	3/8"	95.00
GS33-13-P2	□ □ by □ □	1 3/8"	95.00
GS44-07-P4	□ □ □ by □ □ □	3/8"	155.00
GS44-13-P4	□ □ □ by □ □ □	1 3/8"	155.00
GS44-07-P1	□ □ by □ □	3/8"	155.00
GS44-13-P1	□ □ by □ □	1 3/8"	155.00
GS55-07-P7	□ □ □ by □ □ □	3/8"	196.00
GS55-13-P7	□ □ □ by □ □ □	1 3/8"	196.00
GS55-07-P3	□ □ □ by □ □ □	3/8"	196.00
GS55-13-P3	□ □ □ by □ □ □	1 3/8"	196.00

NOTE: All Square D Junction boxes have inner and outer tile trims for 1/8" tile as an integral part of the box. Trims for other floor finishes available upon request.

SQUARE D TWO-LEVEL JUNCTION BOXES FOR PYRAMIDAL FEED* SYSTEMS



The unique (U. S. Patent No. 3,264,791) PYRAMIDAL FEED* system provides unlimited capacity for telephone, power, or any other service. Distribution or insert duct is placed to provide the degree of flexibility desired. The number and size of the insert duct will depend on the services and capacity required. Each service (i.e., telephone or power) is connected to the source (i.e., telephone closet or panelboard) by a super duct on a lower level. Two-level boxes are used at the junction of distribution duct and its feeder.

This balanced feed is a highly efficient use of materials, and therefore, is most economical.

*Trademark of Square D Company.

Catalog Number	Duct Arrangement	For Duct Insert Ht.	Price Each
GT12-07-P0	□ by □	3/8"	\$ 54.00
GT12-13-P0	□ by □	1 3/8"	54.00
GT22-07-P0	□ by □	3/8"	66.00
GT22-13-P0	□ by □	1 3/8"	66.00
GT23-07-P1	□ □ by □ □	3/8"	87.00
GT23-13-P1	□ □ by □ □	1 3/8"	87.00

The above items are subject to 50% Discount.

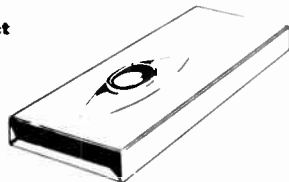
SQUARE D UNDERFLOOR RACEWAY SYSTEMS

Standard Duct
1 1/8" x 3 1/8"

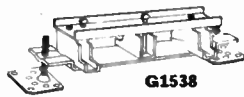


Catalog Number	Insert Height	Length	Price Each
GD100A	BLANK	10'	\$11.00
GD100B	BLANK	12'	13.20
GD100C	BLANK	5'	6.00
GD100D	BLANK	6'	7.10
GD107A	3/8"	10'	14.00
GD107B	3/8"	12'	16.80
GD107C-2	3/8"	5'	7.50
GD107C-3	3/8"	5'	7.50
GD107D	3/8"	6'	8.90
GD113A	1 1/8"	10'	14.00
GD113B	1 1/8"	12'	16.80
GD113C-2	1 1/8"	5'	7.50
GD113C-3	1 1/8"	5'	7.50
GD113D	1 1/8"	6'	8.90

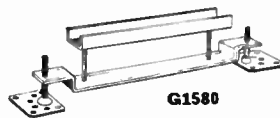
Super Duct
1 1/8" x 7 1/4"



Catalog Number	Insert Height	Length	Price Each
GD200A	BLANK	10'	\$30.00
GD200B	BLANK	12'	36.00
GD200C	BLANK	5'	15.60
GD200D	BLANK	6'	18.60
GD207A	3/8"	10'	36.00
GD207B	3/8"	12'	43.20
GD207C-2	3/8"	5'	18.60
GD207C-3	3/8"	5'	18.60
GD207D	3/8"	6'	22.20
GD213A	1 1/8"	10'	36.00
GD213B	1 1/8"	12'	43.00
GD213C-2	1 1/8"	5'	18.60
GD213C-3	1 1/8"	5'	18.60
GD213D	1 1/8"	6'	22.20



G1538



G1580

Catalog Number	Description	Price Each
G1538-1	Support Coupler	\$ 3.10
G1538-11	Support Coupler	4.50
G1538-2	Support Coupler	4.50
G1538-111	Support Coupler	6.60
G1538-12	Support Coupler	6.60
G1538-112	Support Coupler	8.70
G1538-212	Support Coupler	10.70
G1580-1	Supports	2.10
G1580-2	Supports	2.30
G1580-3	Supports	2.60



BOX OPENING PLUG
G1401 STANDARD
G1402 SUPER



DUCT END PLUG
G1411 STANDARD
G1412 SUPER



SLEEVE COUPLING
G1463 STANDARD
G1464 SUPER



VERTICAL ELBOW
G1601 STANDARD
G1602 SUPER



HORIZONTAL ELBOWS
G1611 STANDARD
G1612 SUPER



G1619 STANDARD



G1615 STANDARD
G1616 SUPER



DUCT OFFSET
G1605 — 150 STANDARD
G1606 — 150 SUPER



CABINET CONNECTOR
G1621 STANDARD
G1622 SUPER



"Y" TAKE-OFF
G1631 STANDARD
G1632 SUPER



CONDUIT ADAPTERS
G1432 2" STD. DUCT
G1434 1 1/4" STD. DUCT
G1436 3/4" STD. DUCT
G1437 3/4" STD. DUCT
G1438 1" STD. DUCT
G1435 FOR TWO 1 1/4" COND.—STD. DUCT



G1433 SUPER CONDUIT ADAPTER BODY



G1456 1 1/4" CONDUIT ADAPTER PLATE (USE WITH G1433)



G-155 MARKER

G1469 SEALING COMP. 1 GAL.
G1470 SEALING COMP. 1/10 GAL.

CONDUIT ADAPTERS TO ELLIPSOID INSERT

Description	Catalog Number	Price Each
Ellipsoid to 3/4"	G1485	\$2.10
Ellipsoid to 1"	G1486	2.10
Ellipsoid to 1 1/4"	G1487	2.10
Ellipsoid to 1 1/2"	G1488	2.10
Ellipsoid to 2"	G1489	4.10

INSERT ADAPTERS FOR OLDER DUCT SYSTEMS

Adapts All Square D Underfloor Duct G1, G2, G3, G4, G5 and G6 Service Fittings:

Description	Catalog Number	Price Each
Fits Inserts with 1.9" Special Fine Thread	G991 AL	\$2.10
Fits Inserts with 1 1/2" I.P.S.	G992 AL	2.10
Fits Inserts with 2" I.P.S.	G113	2.10

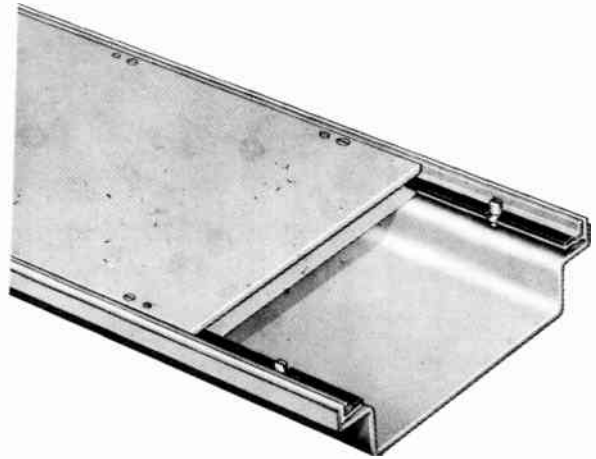
The above items are subject to 50% Discount.

TRIANGLE UNDERFLOOR RACEWAYS**TRIANGLE HEADERDUCT CELLULAR FLOOR
FEEDER RACEWAYS**

Triangle Headerducts are large capacity feeder raceways which provide access to a building's cellular steel floors, thus utilizing the cells as raceways for electrical conductors. Individual outlets for power, telephone and intercommunications may be located anywhere along the energized cells. A Triangle Headerduct feeder raceway system provides the most efficient electrical distribution for cellular floor construction. The simplified method of locating and relocating service outlets results in lowest installation and building maintenance costs. Triangle Headerduct Systems incorporate outstanding design features which simplify layout and installation of the cellular floor electrical system —

- Steel ducts painted with corrosion proof acrylic coating.
- Cast Aluminum Grommets assure grounding continuity of Headerduct and Cellular Floor. (polyethylene also available)
- Electrical Service Fittings in Color (Colorful above-floor fittings to match room decor)
- Capacity for both present and future electrical requirements.
- Corrosion-proof acrylic coating on couplings and straps.

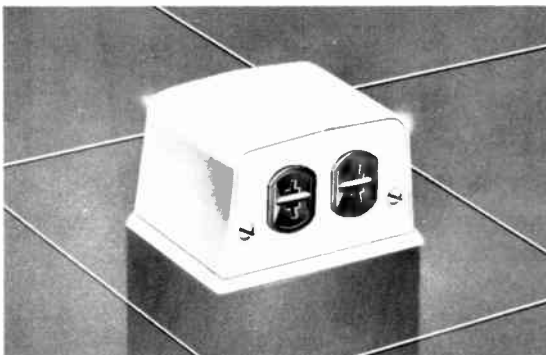
A full line of assembly fittings, accessories and service fittings is available.

**TRIANGLE TRENCHDUCT ELECTRICAL RACE-
WAY SYSTEM**

Triangle Trench Duct is an extra-large capacity electrical distribution feeder system for power or telephone and communication wiring. This system meets the ever-increasing demand for these services *today*, and provides the necessary expansion area for future requirements. Trench Duct primarily serves as a feeder raceway system to the activated cells of a cellular type floor. May also be used as an isolated trench for long runs of feeder cables or, by use of adapters, as a feeder system for standard underfloor duct distribution. For initial installation of conductors, covers may be removed from the Trench Duct run and cables laid in. When new cables are subsequently added, access to the trench is achieved by removal of cover plates at desired locations and cables pulled in. Trench Duct may be partitioned to provide separate power and communications compartments within the common housing. The partition may be located to adapt the duct to expected wire fills for low and high potential requirements. Partitions are installed in the duct at the factory. Trench Duct System layouts are factory-engineered for customer convenience and for manufacturing specifications for each component. The drawings are furnished to the electrical engineer/contractor for installation guidance and future reference. This is a Triangle courtesy service. A full line of assembly fittings is available.

Three types available:

1. Non-adjustable cover plate
2. Standard adjustable cover plate
3. Double wall linoleum trim (exclusive 4 sided tile trim protects all four edges during servicing.) Aluminum or stainless steel available.

**Service Fitting Utility**

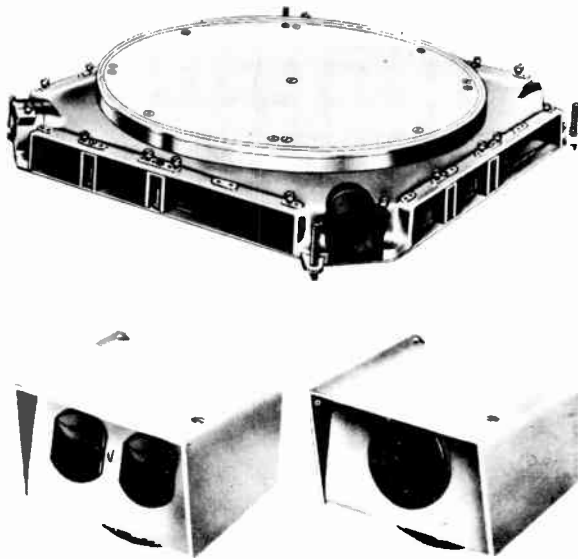
Attractive above-floor Service Fittings are designed with built-in ruggedness to withstand floor traffic and floor-cleaning equipment. The sturdy Service Fittings fasten securely in the threaded floor outlet, lock snugly in the selected floor position.

TRIANGLE Service Fittings are adaptable, permitting interchange of receptacle covers without changing the housing. This flexibility reduces inventories of complete fittings required for changing floor layouts and results in lower building maintenance costs.

Price on Application

TRIANGLE UNDERFLOOR RACEWAYS

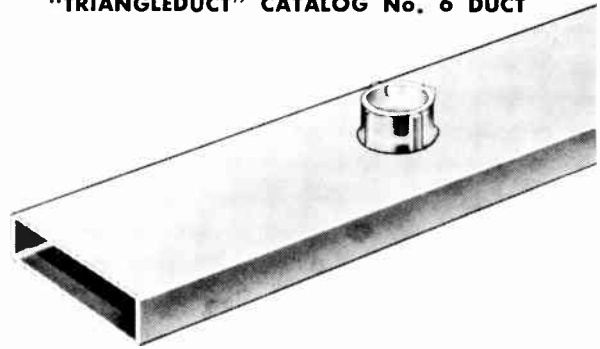
"TRIANGLEDUCT" UNDERFLOOR ELECTRICAL RACEWAY SYSTEMS



"Triangleduct" Raceways utilize a unique system of multiple purpose parts in which a given part performs more than one function. This method reduces the number of parts to about 25% of the usual requirement. The result is better service, ease of ordering, fewer parts for you to keep track of, less possibility of losing parts. Moreover, many parts are common to all four of our systems, often multiplying the above advantages. "Triangleduct" is coated for maximum protection against rust and corrosion by a costly acrylic painting process. This extremely hard surfaced coating does not sacrifice itself to corrosion as does zinc, but retains its corrosive resistant properties year after year. Non-corrosive ZAMAK Duct Outlets assure life-time trouble-free access to the ducts. Service Fittings may be matched to floor coverings or desks to blend with their modern surroundings. The trim, new Service Fittings, less than three inches high, have ample wiring capacity to meet modern office requirements. A full line of Assembly Fittings, Duct-Supports, Junction Boxes, Service Fittings and accessories are available.

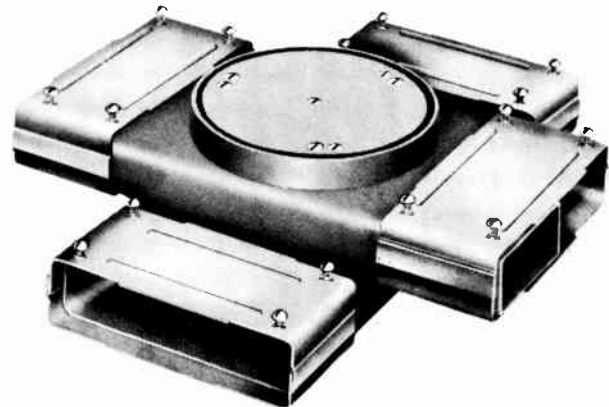
For: Power and light
Telephone, signal, Intercommunications

"TRIANGLEDUCT" CATALOG No. 6 DUCT



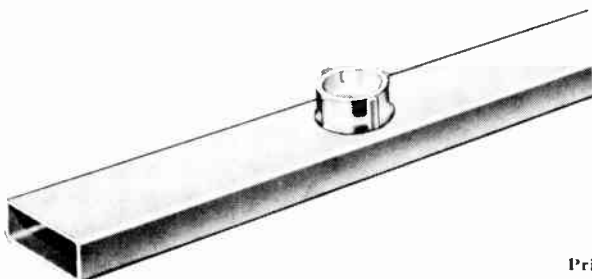
Designed to meet requirements of maximum wire fills and large size telephone and signal installations. No. 6 Duct has cross section area of 8.75 square inches. The duct is 14 gauge steel, corrosion resistant coating with 2" threaded outlet spaced every 24". Assembly fittings are provided for complete installation of No. 6 duct systems or in combination with No. 3 Ducts. The entire system installs in floor fill ranging from 2½" to 8".

No. 6-B JUNCTION BOX



The new 6B two level sheet metal Junction Box provides a larger work and wire pulling area at the junction point . . . while providing for segregation of systems (distribution — top, feeder lines — bottom). Where at least 4" of concrete slab exists, it provides a more flexible, in some cases more economical method of obtaining large capacity. Available in three different leg lengths to assure adequate width under adjacent duct. Adaptable to single 3, double 3 or 3/6 combinations. U.L. approved.

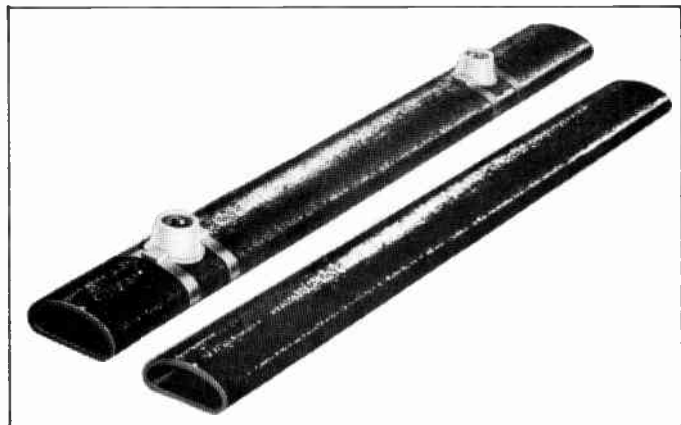
"TRIANGLEDUCT" CATALOG No. 3 DUCT



Standard size duct, 14 gauge steel, protected from corrosion by extra-heavy coating. Cross section area of 3.923 square inches meets majority of electrical wiring requirements. The underfloor raceway system of one -- two -- or three duct runs provides independent service for power, telephone and inter-communications. Two inch pipe size threaded outlets, with wide sweep radius for safe wire pulling, are spaced every 24" along the 10 foot duct length.

Price on Application

ORANGEBURG FIBRE UNDERFLOOR DUCT SYSTEMS



CAT. NO.	DESCRIPTION	WT. LBS. PER FT. (NET)	PER FT.
233	Duct, Plain	1.	\$.40

Preset Duct with 1.9" Inserts, Steep Cap, on 24" Centers

6502-S-24	Inserts 3/4" High	1.1	.60
6503-S-24	Inserts 1" High	1.1	.60
6504-S-24	Inserts 1 1/4" High	1.1	.60
6505-S-24	Inserts 1 1/2" High	1.1	.60
6506-S-24	Inserts 2" High	1.2	.65
6507-S-24	Inserts 2 1/2" High	1.2	.65



Couplings and Supports

		WT. LBS. EACH (NET)	EACH
1300-B	Single Coupling and Support	.6	.40
1301-B	Double Coupling and Support	1.3	.75
1304	Triple Coupling and Support	1.7	.90



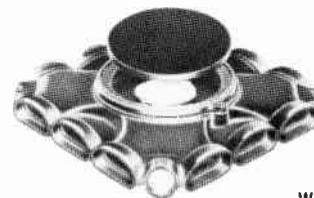
Entrance Clamps, Closure Plates, Adapters

1409	Entrance Clamp	.2	.35
5023	Closure Plate	.1	.15
1261-3 to 10	Duct end closure with adapter to 1 1/4" conduit	1.9	1.30



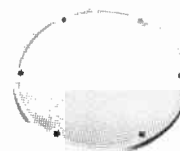
Afterset Inserts 1.3"

6126-3	3/4" over duct	.3	.90
6126-4	1" over duct	.4	.90
6126-5	1 1/4" over duct	.4	.95
6126-6	1 1/2" over duct	.5	.95
6126-7	1 3/4" over duct	.5	1.05
6126-8	2" over duct	.5	1.05
6126-9	2 1/4" over duct	.5	1.10
6126-10	2 1/2" over duct	.6	1.10



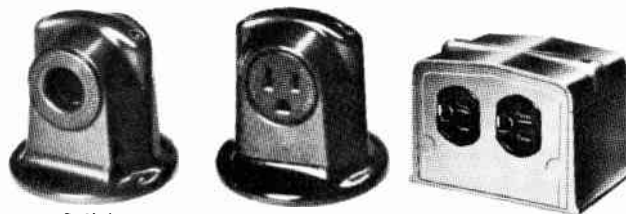
Standard Junction Boxes

		WT. LBS. EACH (NET)	EACH
2314-3 to 10	Junction Box, Single System, 3/4" to 2 1/2" concrete over duct	10.3	\$ 7.85
4326-3 to 10	Junction Box, Double System, double compartment, 3/4" to 2 1/2" concrete over duct	26.	16.60
4328-3	Junction Box, 2 1/2" High Double System, double compartment, 3/4" concrete over duct	25.	16.60
3312-3 to 10	Junction Box, Triple System, double compartment, 3/4" to 2 1/2" concrete over duct	45.	29.60
3314-3	Junction Box, 2 1/2" High Triple System, double compartment, 3/4" concrete over duct	49.	29.60



Cover Assemblies for Standard Junction Boxes

5512	Cover Assembly, 5" diameter — for 1/8" linoleum	1.4	5.25
5812	Cover Assembly, 8" diameter — for 1/8" linoleum	3.9	9.70
5912	Cover Assembly, 9" diameter — for 1/8" linoleum	4.	9.75



Outlets

7362	Duplex, outlet (back to back), 15 Amp. 125 Volt, 3-wire ground, Grey or Brown Tenite coating furnished as standard	1.1	5.50
7363	Duplex outlet (back to back), low tension for telephone or signal service. Grey or Brown Tenite coating furnished as standard	.9	4.50
7364	Universal Outlet, High Tension, one standard 15 Amp. duplex Receptacle, Grey or Brown Tenite coating furnished as standard	2.	6.50
7365	Universal Outlet, High Tension, two standard 15 Amp. duplex Receptacles, back to back, Grey or Brown Tenite coating furnished as standard	2.	7.50
7367	Universal Outlet, Low Tension, bushed back to back, for telephone or signal service. Grey or Brown Tenite coating furnished as standard	2.	5.50

GLOBE CABLE-STRUT® CABLE TRAY



CABLE-STRUT Cable Tray Installation by Globe

DESCRIPTION AND UTILITY

Cable-Strut Tray Systems are proven members of the United States Gypsum product family. Designed and manufactured by Globe Division to exacting USG standards, they serve in many places and many ways throughout industry.

Cable-Strut Cable Tray, available in three interchangeable types, is a continuous mechanical support system designed for installation of control, power, and signal conductors or other electrical services. It is made in straight sections, with matching fittings to accommodate all changes of direction or quantity of cables. Design conforms to NEMA recommendations for ventilated cable trays.

These cable trays will also support metal, glass and plastic pipes used in chemical processing, hydraulic lines, and various other industrial equipment. Trays may be supported by Globe-Strut Channel Framing (see USG Folder AV-98 for suggested support system).

TYPES AND FUNCTIONS

Ladder Type — Cable-Strut Ladder Type Tray, Model K, is fabricated with two longitudinal side rails connected by individual transverse rung members. Standard clear inside widths: 6", 9", 12", 18", 24", 30" and 36"; depth: 3", 4" and 6"; rung spacing: 6", 9", 12" (and 18", steel only).

Trough Type — Cable-Strut Trough Type Trays are available in two models: Model U is of one-piece metal construction with ventilated bottom; Model K is fabricated with two longitudinal side rails. The vented tray transverse rungs are 1" o.c. with $\frac{1}{8}$ " opening. Standard clear inside widths: 6", 9", 12", 18", 24" and 30"; depth: 3", 4", and 6". These troughs are generally recommended to prevent festooning of light cables.

Solid Bottom Type — Cable-Strut Solid Bottom Trays are available in Model U. Widths and depths are same as Trough Tray Type, Model U.

Channel Type — Cable-Strut Channel Type Tray, Model U, is identical to the trough type but generally is used as a branch type feeder. Standard clear inside widths: 3" and 4"; depth: 3".

MATERIALS

Steel — Steel used is of commercial quality, with a standard finish of galvanized coating conforming to ASTM A-525. Also available hot dipped galvanized after fabrication.

Aluminum — Aluminum alloys used are selected for appropriate structural and mechanical properties.

FITTINGS

One series of fittings, standardized to serve both trough and ladder installations, provide economy.

CABLE TRAY COVERS

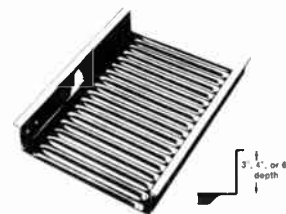
Cable tray covers, solid type or ventilated are available for all straight sections. Solid covers are available for all fittings. Standard material is commercial quality steel, mill galvanized in accordance with ASTM A-525 and/or aluminum.

MISCELLANEOUS ACCESSORIES

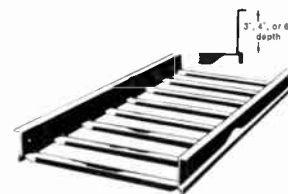
Cable clamps, hangers, side channel, hold down or cover clamps, tray divider strips with or without protectors, drill jigs, etc., are available as normal accessories. Cable pulleys, cable rollers, etc., needed for installation of cable are available for purchase or rent.

SAFE, UNIFORM LOAD

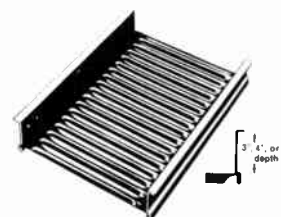
Consult current Globe Division literature for applicable safe uniform loads of various types of cable trays.



Trough Type Model "U"



Trough Type Model K



Ladder Type Model K

HUSKY/BURNDY CABLE SUPPORT SYSTEMS

Husky/Burndy pioneered the development of support systems for cables in free air and specializes in such systems "complete to the last bolt," not only the cable trays required, but also more than a thousand standard accessory items to permit complete unit responsibility.

Husky offers a variety of cable tray types and constructions in both steel and aluminum to meet the requirements of an infinite number of tray applications. One or more trays will be found to be most economical for a given set of conditions.



VENTRIB Trough

ELECTRAY Trough

Cable troughs are furnished with continuous bottoms either ventilated or non-ventilated. Standard widths are 6", 9", 12", 18" and 24". Standard radii are 12" and 24". For use as cable supports for small multi-conductor control, signal circuit, and power cables.



VENTRAY Ladder

ELECTRAY Ladder

The ladder type tray consists of two longitudinal side members or stringers connected by individual rungs. For use as power cable supports, the rungs are usually 18 inches apart. Lighter cables may require a rung spacing of 9 inches.



ELECTRAY Channel, 3"

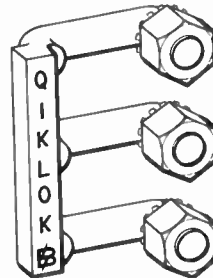
ELECTRAY Channel, 4"

The channel type tray is one piece, ventilated channel section to support a single power cable or multiple control or signal cables.

FITTINGS

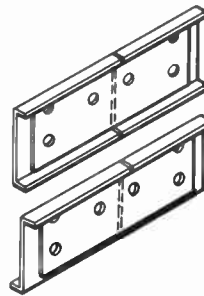
All Trough, Ladder and Channel lines are complete with fittings to accommodate changes in size or direction of the tray system.

QIKLOK



Quickly installed, makes a rugged connection between sections in the VENTRIB, VENTRAY systems. The QIKLOK splice is easily fitted and bolted through three pre-punched holes at the end of each tray section. Complete with nuts and captive lock washers, the required number of sets are automatically supplied with each order.

TROUGH AND LADDER SPLICE PLATES



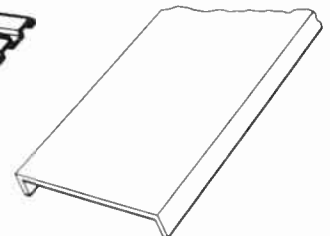
For ELECTRAY troughs and ladders the required number of splice plates are automatically supplied with each order, complete with bolts, nuts and captive lock washers.

COVERS

A complete line of covers and fasteners to cover every type of application is available.



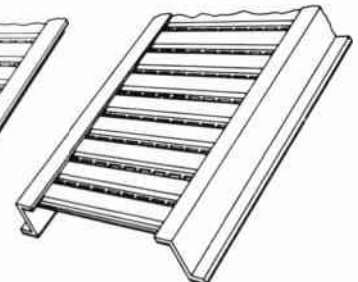
Corrugated, Ventilated



Flanged, Non-Ventilated, Flat



Corrugated, Ventilated Flat without Flange

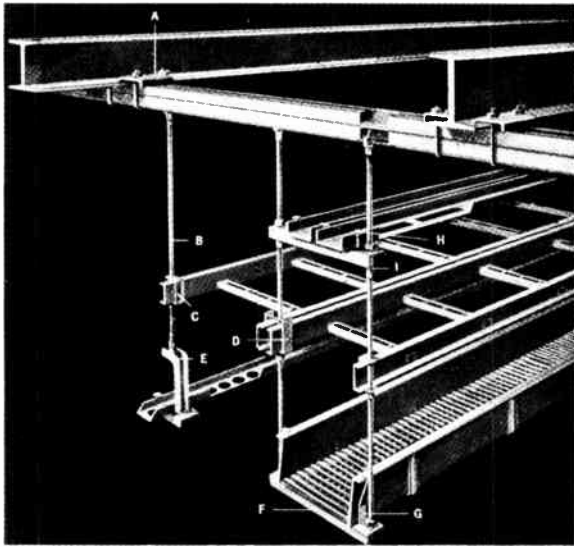


Hat-Shaped, Ventilated

HUSKY/BURNDY CABLE SUPPORT SYSTEMS

SUPPORT MATERIAL

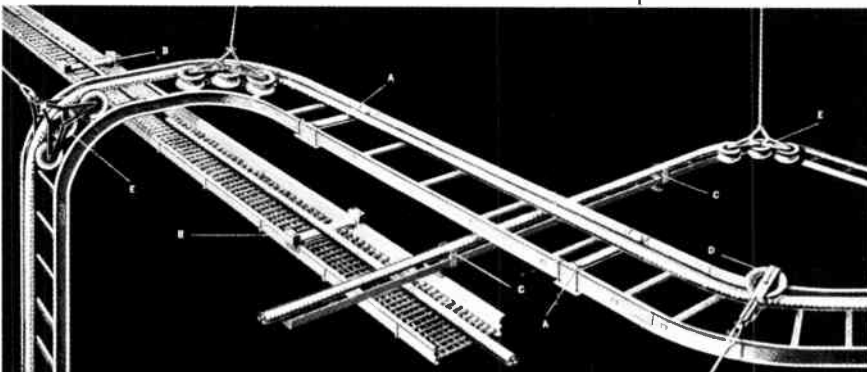
A full line of accessories is available when a cable support system is to be suspended from overhead. Trough, Ladder or Channel may be hung singly, in pairs, or in groups by means of hanger rods, in combination with hanger clips, support channels or other accessories.



LONG SPAN SUPPORTS

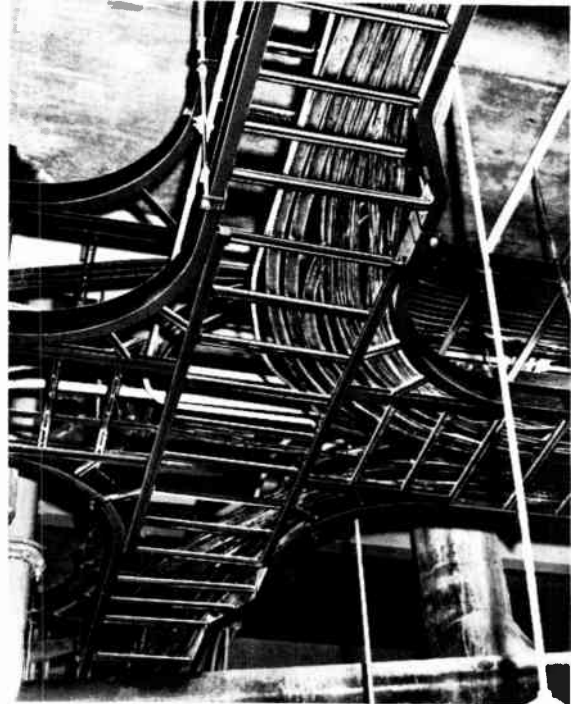
When long spans must be bridged, indoors or outdoors, cable trays are supported in various ways depending upon the length of the span, the possible ice load, the anticipated wind load, the arrangement and number of trays and other special circumstances.

Long spans may be bridged by trussed ladders, channel beams, angle trusses, suspension cables, and suspension bridges. Structural "H" frames, "A" frames, pipe supports and towers, used in connection with the various rigid and flexible span supports, complete the line of long spans offered.



PVC COATED TRAY

The polyvinyl chloride coatings lets you install a cable support system in areas highly corrosive to metals, which previously could not withstand the damaging effects of destructive chemicals and atmospheric conditions. The Husky PVC coating is abrasion resistant, will not chip, or peel, even under extremes of temperature.



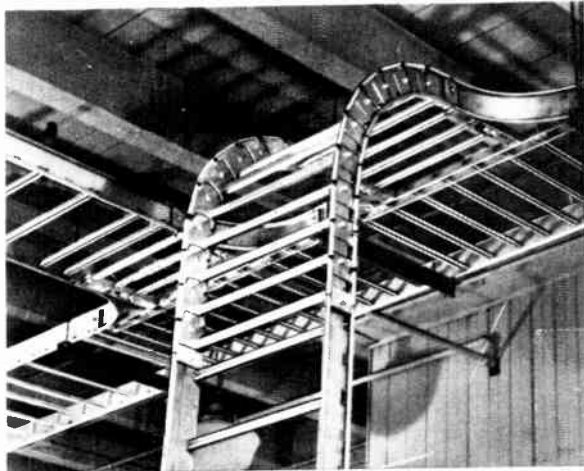
Typical application for Husky PVC coated cable tray include chemical, petrochemical, cement processing, paper and pulp, electroplating and mineral industries.

HUSKY'S ENGINEERING SERVICE

Husky/Burndy offers to its users an exclusive engineering service which can substantially reduce field engineering and labor, thus achieving the lowest possible total installed cost. By coordinating marked-up layout drawings and support details with material packaging and marking, the erection of cable supports system is reduced to a simple assembly operation.

CABLE INSTALLATION TOOLS

"EZ" Rolls and pulleys (both single and triple types) facilitate greatly the installation of cable in Husky trough, ladder and channel. EZ rolls and pulleys may be purchased or rented on a weekly basis.

PORTER LADDER-WAY**(DELTA-STAR)**

Ladder-Way is a highly efficient and economical cable support system. Its low cost, fast installation and quick service features, offer advantages over other methods of wiring.

Accessibility of cables for inspection and maintenance as well as its adaptability to change due to increased load or relocation of equipment are of importance where expansion or change is contemplated.

The open construction of Ladder-Way offers additional advantages over solid or semi-solid tray construction. Being lighter in weight yet designed to provide a rugged structure capable of withstanding the loads imposed by the cable, they are more easily handled and quickly installed. Lighter supporting structures can be utilized. The open construction also results in better ventilation, lower operating temperatures and permits the use of higher current densities. Large openings permit dust, dirt and moisture to filter through, thus minimizing their accumulation.

The ample range of standard straight and curved sections plus the adaptability of these components make Ladder-Way one of the most versatile systems to install.

Ladder-Way is manufactured in standard lengths of 12' with 8" rung spacing. Special rung spacings can be provided at a minimum of 4" or in increments of 4". Straight sections are formed of pre-galvanized steel and are easily joined by bolted tray connectors which join the sections in perfect alignment to form a smooth and rigid junction. One set of two connectors are furnished with each section. Additional connectors are available. All Ladder-Way sections have pre-punched holes to accept connector bolts. Where sections must be field cut, field drilling can be easily accomplished.

STANDARD SECTIONS

Ladder-Way is manufactured in standard straight sections of 6", 12", 18" and 24" widths and 12' lengths with rung spacings of 8". Special rung spacings can be furnished as low as 4" and in greater spacings than 8" in increments of 4" on special order.

All Ladder-Way straight lengths and horizontal curved sections are fabricated from roll formed 19-gauge pre-galvanized steel. Rungs are of the same gauge, formed into a square tubular section and are fastened to the side rails by curling back the ears under pneumatic pressure. This construction results in an inherently strong and rigid tray that is light in weight and easily handled.

All vertical bends, both inside and outside, are of a design which permits adjustment yet will hold the shape when installed. This design is a distinct departure from the conventional means for changing the direction of a vertical cable run. When ordered, a straight section of joined links and rungs, factory assembled to provide the desired angle and radius when formed by hand in the field is furnished. These assemblies are identical for both inside and outside bends. During installation these elbows can be altered slightly to compensate for misalignment in the sections they join. This feature often eliminates field cutting or bending of sections. If desired, special bends of odd angle or double bends to meet specific conditions can be provided. These special fittings can often reduce the number of section joints or permit slight offsets over or under obstructions impossible with conventional rigid elbows and are an exclusive patented feature of "Delta-Star" Ladder-Way.

When required, the Ladder-Way line can be furnished either hot-dip galvanized after fabrication or in aluminum. All dimensions are the same as the standard pregalvanized tray.

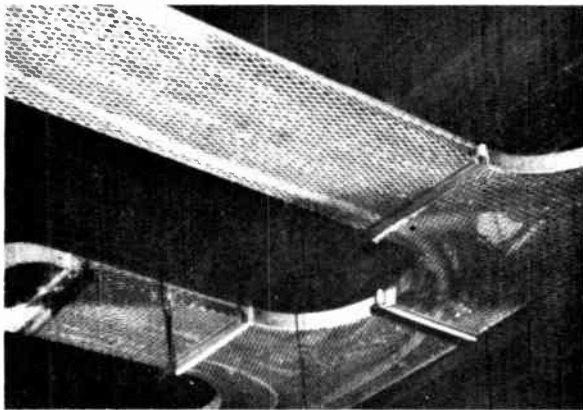
Width W.	Catalog No.	Wt./Lbs.
6"	450600	33
12"	451200	38
18"	451800	42
24"	452400	47

Note: Catalog numbers cover pre-galvanized steel. Steel, hot-dip galvanized after fabrication or aluminum sections are also available. To order add suffix -H for hot-dip galvanized or -A for aluminum, to above numbers. For other than 8" rung spacing specify on order. Minimum rung spacing is 4".

Ladder-Way is produced as a complete system with the following components available: Straight Sections, Straight Section Covers, Tray Connectors, Cover Fasteners, Horizontal Bends, Crosses, Tees, Solid Covers for Horizontal Bends, Crosses and Tees, Vertical Bends Covers for Vertical Bends, Special Vertical Bends, Horizontal Reducers, Flexible Connectors, Cable Separators, Box Connectors, End Plates, Mounting Brackets, Drop outs, Hold-Down Clamps, Support Angles, Hanger Rods, Hanger Rod Couplings, Hangers, Rod Anchors and Beam Clamps.

PORTER UNI-TRAY

(DELTA-STAR)



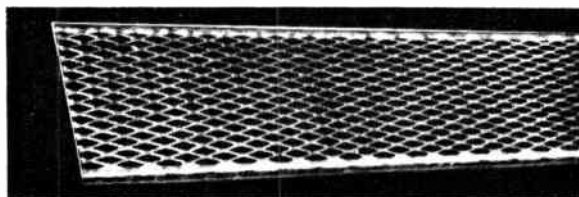
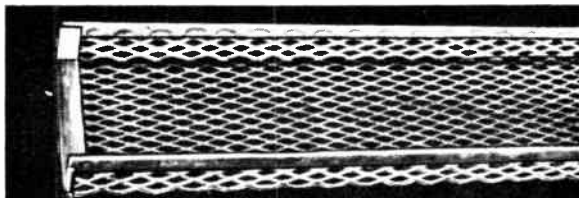
Uni-Tray is a complete prefabricated electrical cable support system for control or power cables. Used extensively by both electric utilities and industrial plants. It can be installed economically for less than a conduit system. The accessibility permits easy inspection for normal maintenance or cable rearrangement. A variety of cable-way sizes permits selection of a unit which is large enough to allow for additional cables on future power requirements. When power demands increase beyond expectations, additional cable-way can be attached to hangers on the initial system.

Uni-Tray offers distinct advantages over solid or punched steel cable-ways. The reasons are due to unobstructed ventilation, lower electrical losses, lighter weight, cleaner plus rigid production and inspection standards.

Uni-Tray is fabricated from 9/11 gauge expanded steel and is available in standard 10 foot lengths, 3 inches deep. Standard galvanized steel sections can be obtained in 3, 6, 9, 12, 18 and 24 inch widths.

When required the entire Uni-Tray line can be obtained in aluminum. Standard sections are available in the same dimensions as galvanized steel, except that the maximum width is 18 inches.

Tray



Cover

UNI-TRAY CABLE-WAY INSTALLATION

The simplified system of assembling UNI-TRAY Cable-ways with WEDGIT fittings, plus Delta-Star's high quality workmanship on UNI-TRAY sections, makes installation quick and easy. The following suggestions may be helpful in setting up your cable-way system.

Planning the complete installation in advance simplifies succeeding operations, especially with regard to future plant expansion programs, etc. If system layout assistance is desired, field engineering service is available.

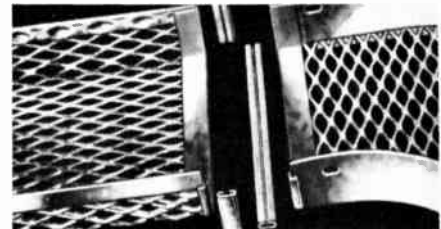
UNI-TRAY sections are joined by driving the WEDGIT clamping channels into position, as illustrated. Elbows, tees, crosses, reducers, drop-out, are joined in the same way. Barrier strips may be added as required.

It is recommended that tray supports be used at a maximum 10 ft. spacing. For proper appearance, deflection should be limited to one part in two hundred of span length.

As a complete system Uni-Tray has the following components available: Straight Sections, Straight Section Covers, Reducers, 90°—60°—45°—30° Horizontal Elbows and Covers, Horizontal Adjustable Elbows and Covers, Horizontal Tees and Covers, Horizontal Crosses and Covers, 45° Horizontal Wyes and Covers, 90°—60°—45°—30° Outside Bend Elbows and Covers, 90°—60°—45°—30° Inside Bend Elbows and Covers, Vertical Tees, Vertical Crosses, Cable Hanger Elbows, Barriers for Horizontal Elbows, Barriers for Riser Elbows, Barriers for Straight Sections, Uni-Tray Connectors, Uni-Tray to Ladder-Way Connectors, Blank Ends, Conduit Support Brackets, Wedgit Channel Fittings, Tray to Box Connectors, Cover Fasteners, Standard Drop-outs, 4 Way Frame Type Drop-outs, Round Drop-outs and Conduit Nipple Drop-outs.

*Tray Catalog Numbers include one set of Wedgit fittings.

Uni-Tray sections are easily fitted together with three Wedgit fittings.



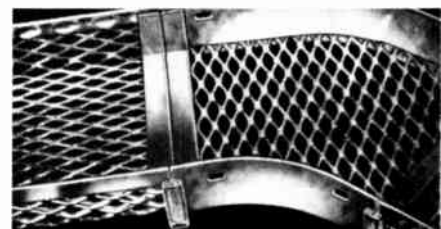
Wedgit fittings slide into position . . . reduces section assembly time by 75%.



The assembled connection is strong and adds rigidity to the section.



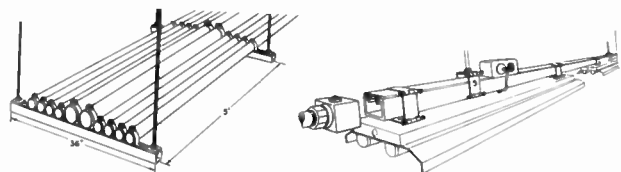
Wedgit fittings eliminate all bolts, pins, rivets or hinges.



THE KINDORF CHANNEL ERECTOR SYSTEM

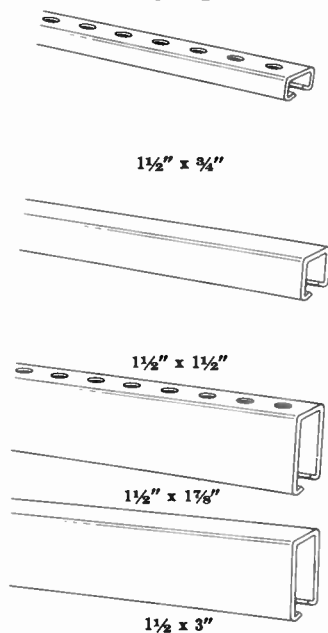
The Kindorf system of channels and accessories has been developed by Steel City engineers to provide an economical and time-saving installation of electrical and mechanical supporting and framing requirements.

GALV-KROM FINISH — electrogalvanizing plus zinc chromate, is standard on Steel City Kindorf products. This patented finish protects up to four times as long as the standard thickness required by Underwriters' Laboratories, Inc., Galv-Krom imparts an attractive bronze luster to the surface which does not require painting. It is smooth, clean and remarkably tough.



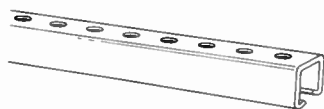
All Channels have 3/8" Continuous Slot and are produced with Solid Bases, Bolt Holes, Slots or KO's.

STEEL



Cat. No.	Wt. Lbs. 100 Ft.	Description	Gauge	Per 100 Feet		
				Zone A	Zone B	Zone C
B-906	88	Solid Base	14	\$31.90	\$32.90	\$34.80
B-907	82	Holes	14	35.70	36.60	38.40
G-956	80	Slots*	14	35.60	36.50	38.30
1 1/2" x 3/4"						
B-900	120	Solid Base	12	57.00	58.90	62.60
B-900-M	107	Solid Base	14	46.00	47.20	49.60
B-905	160	Holes	12	60.80	62.50	66.10
B-905-M	100	Holes	14	49.80	50.90	53.20
G-953	140	Slots	12	60.10	61.70	64.70
G-975	168	KO's	12	60.80	62.65	66.35
G-975-M	107	KO's	14	49.80	50.95	53.30
1 1/2" x 1 1/2"						
B-901	196	Solid Base	12	62.00	64.10	68.45
B-909	188	Holes	12	62.00	64.10	68.45
G-965	196	KO's	12	64.50	66.60	70.95
G-950	194	Slots**	12	65.90	68.05	72.30
1 1/2" x 1 7/8"						
B-902	285	Solid Base	12	92.40	95.50	101.80
B-903	277	Holes	12	96.10	99.20	105.30
G-955	283	KO's	12	94.90	98.00	104.30
1 1/2" x 3"						

ALUMINUM



B-900-AL	58	Solid Base	12	66.40	67.05	68.35
B-905-AL	56	Holes	12	70.35	70.95	72.20

Holes — 3/32" holes on 1 1/2" centers
 Slots — *3" slots on 4" centers **one 2 1/4" slots on 4' centers
 KO's — 1/2" KO's on 6" centers

STEEL NUTS



Cat. No.	Size In.	With and Without Self-Holding Spring		
		Zone A	Per 100 Zone B	Zone C
B-910 For use with all channels	1/4	\$ 9.70	\$ 9.80	\$ 9.90
B-910-3/8	3/8	10.80	10.85	11.00
B-910-1/2	1/2	11.30	11.40	11.60
B-911 Spring Nut for 1 1/2" deep channels	1/4	13.20	13.30	13.50
B-911-3/8	3/8	14.30	14.40	14.60
B-911-1/2	1/2	15.30	15.40	15.70
B-912 Spring Nut for 3/4" deep channel	1/4	12.70	12.80	13.00
B-912-3/8	3/8	13.80	13.90	14.10
B-912-1/2	1/2	14.30	14.40	14.60



HEX HEAD CAP SCREW (less nut)
 For Connection of Fittings to Channel

Cat. No.	Size In.	Per 100		
		Zone A	Zone B	Zone C
H-113-A	1/2 x 3/4	\$ 6.80	\$ 6.85	\$ 7.00
H-113-B	1/2 x 1	7.30	7.40	7.70
H-113-N	3/8 x 3/4	3.20	3.25	3.30
H-113-O	3/8 x 1	3.40	3.45	3.50



HEX NUT

Cat. No.	Size In.	Per 100		
		Zone A	Zone B	Zone C
H-114-A	1/4	\$ 1.15	\$ 1.20	\$ 1.25
H-114-B	1/8	1.80	1.85	1.90
H-114-C	3/8	2.40	2.45	2.50
H-114-D	1/2	4.70	4.75	4.80

KINDORF HANGER ROD — PIPE STRAPS — BEAM CLAMPS — CONCRETE INSERTS



H-193 HANGER ROD Continuous Thread

Precision made with true, free running threads — one, one and one-half, two, three, four, six, ten and twelve foot lengths. Suffix indicates rod size and length.

Cat. No.	Dia. In.	Wt. Lbs. Per 100 Ft.	Per 100 Feet		
			Zone A	Zone B	Zone C
H-193-1/4-1	1/4	12	\$18.00	\$18.15	\$18.40
H-193-1/4-1 1/2	1/4	18	24.00	24.20	24.60
H-193-1/4-2	1/4	24	36.00	36.25	36.80
H-193-1/4-3	1/4	36	48.00	48.40	49.20
H-193-1/4-4	1/4	48	64.00	64.55	65.60
H-193-1/4-6	1/4	74	93.80	94.70	96.40
H-193-1/4-10	1/4	124	154.10	155.40	158.10
H-193-1/4-12	1/4	148	184.90	186.50	189.80
H-193-3/8-1	3/8	30	23.00	23.35	24.00
H-193-3/8-1 1/2	3/8	47	33.45	33.95	35.00
H-193-3/8-2	3/8	66	46.00	46.70	48.20
H-193-3/8-3	3/8	88	62.30	63.25	65.20
H-193-3/8-4	3/8	126	81.70	83.10	85.85
H-193-3/8-6	3/8	174	132.20	134.20	138.00
H-193-3/8-10	3/8	290	219.60	222.80	229.10
H-193-3/8-12	3/8	348	261.80	265.30	272.90
H-193-1/2-1	1/2	54	30.40	31.00	32.20
H-193-1/2-1 1/2	1/2	84	43.50	44.45	46.25
H-193-1/2-2	1/2	118	60.80	62.10	64.70
H-193-1/2-3	1/2	162	83.00	84.80	88.35
H-193-1/2-4	1/2	222	109.50	111.95	116.80
H-193-1/2-6	1/2	324	175.70	179.30	186.40
H-193-1/2-10	1/2	540	288.20	293.70	305.60
H-193-1/2-12	1/2	648	346.40	353.50	367.80



C-105

SINGLE BOLT PIPE STRAPS

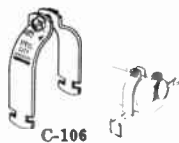
Notched steel straps are twist inserted anywhere along channel slot to secure pipe and conduit. Slotted hex-head screw can be tightened with wrench or screw driver — square nut will not rotate. No holes to drill.

C-105 PIPE AND RIGID CONDUIT STRAPS — STEEL

Cat. No.	O.D. of Conduit or Pipe	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
C-105-3/8	.675	14	\$13.80	\$14.00	\$14.45
C-105-1/2	.840	15	16.10	16.30	16.80
C-105-3/4	1.050	16	18.40	18.60	19.10
C-105-1	1.315	18	19.60	19.90	20.50
C-105-1 1/4	1.660	20	21.90	22.20	22.80
C-105-1 1/2	1.900	29	24.20	24.50	25.30
C-105-2	2.375	33	25.50	25.90	26.70
C-105-2 1/2	2.875	38	28.40	28.90	29.80
C-105-3	3.500	45	31.45	32.00	33.10
C-105-3 1/2	4.000	58	34.50	35.15	36.40
C-105-4	4.500	64	37.30	37.90	39.30
C-105-5	5.563	76	43.40	44.20	45.85
C-105-6	6.625	89	50.80	51.80	53.80
C-105-8	8.625	114	60.75	61.85	64.05

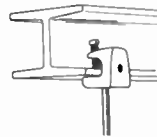
C-105 straps also available in aluminum

C-106 E.M.T. STRAPS — STEEL



C-106

Cat. No.	O.D. of Conduit or Pipe	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
C-106-3/8	.577	13	\$13.80	\$14.00	\$14.45
C-106-1/2	.706	13	16.10	16.30	16.80
C-106-3/4	.922	15	18.40	18.60	19.10
C-106-1	1.163	16	19.60	19.90	20.50
C-106-1 1/4	1.508	19	21.90	22.20	22.80
C-106-1 1/2	1.738	20	24.20	24.50	25.30
C-106-2	2.195	22	25.50	25.90	26.70



500 SERIES BEAM CLAMPS

For 1/4" Through 1/2" Rod

Furnished with tapped holes in base and back for bolt or hanger rod.

Cat. No.	Jaw Opening Inches	Hole Tapped	Wt. Lbs. Per 100	
			Per 100	Per 100
510	3/8	1/4-20	15	\$24.10
511	5/8	10-24	15	24.10
500	1 1/8	1/4-20	23	25.30
509	1 1/8	10-24	23	25.30
501	7/8	5/8-18	47	42.20
502	1	3/8-16	95	70.35
503	1	1/2-13	164	107.00
505	7/8	Two 10-24 & two 3/8" untapped	78	67.75
506	1 1/8	Two 10-24 & two 1/2-13	108	84.65
507	1 3/8	1/2-13	165	109.50
508	2 1/8	1/2-13	184	121.90

E-231 BEAM CLIP

For 3/8" and 1/2" Rod

Clamps to I-beam, channel and columns up to .8" flange thickness. Hardened steel cup-pointed set screw screws the clamp to the flange.



Cat. No.	For Rod Inches	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
E-231-3/8	3/8	32	\$25.20	\$25.50	\$26.20
E-231-1/2	1/2	56	40.70	41.45	42.90



E-232 BEAM CLAMP

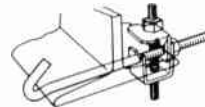
With Swing Connector

Cat. No.	For Rod Inches	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
E-232-3/8	3/8	48	\$45.30	\$45.70	\$46.60
E-232-1/2	1/2	80	64.40	65.00	66.10

E-160 ADJUSTABLE BEAM CLAMP

For 1/2" Rod

Clamps to I-beam where flange edge does not exceed .8" thickness. Three sizes to fit beam flanges from 2 1/2" through 12" width.

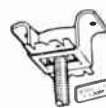


Cat. No.	For Beam Flange Width In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
E-160-1/2-6	2 1/2 to 6	115	\$68.75	\$69.95	\$72.50
E-160-1/2-9	5 1/2 to 9	125	73.75	75.05	77.85
E-160-1/2-12	8 1/2 to 12	154	78.65	80.15	83.25

CONCRETE INSERTS

Spot Type

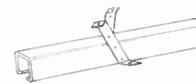
Ready to install — K.O. removed after concrete sets.



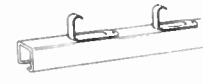
Cat. No.	Wt. Lbs. Per 100	Per 100		
		Zone A	Zone B	Zone C
D-255	52	\$20.60	\$21.20	\$22.30

CONTINUOUS SLOT CONCRETE INSERTS

Slots sealed with moisture resistant tape.



Welded Anchor



Punched Anchor

Cat. No.	Cross Section	Per 100 Feet		
		Zone A	Zone B	Zone C
Welded				
D-980	1 1/2" x 1 1/2" x 12 ga.	\$85.00	\$87.05	\$91.05
D-986	1 1/2" x 3/4" x 14 ga.	65.00	66.10	68.35
Punched				
D-990	1 1/2" x 1 1/2" x 12 ga.	85.00	87.05	91.05
D-996	1 1/2" x 3/4" x 14 ga.	65.00	66.10	68.35

KINDORF CONDUIT AND PIPE SUPPORTS

C-149 LAY-IN PIPE HANGERS

Saves installation time by allowing conduit or pipe to be laid in place after hanger is mounted. The C-149 can be suspended from hanger rod or bolted directly to wall. Galv-krom finish.



Cat. No.	Pipe Size In.	Max. Load in Lbs.	Wt. Lbs. Per 100	Per 100		
				Zone A	Zone B	Zone C
C-149-1/2	1/2	400	17	\$20.10	\$20.30	\$20.65
C-149-3/4	3/4	400	19	24.80	25.00	25.40
C-149-1	1	400	22	31.60	31.80	32.30
C-149-1 1/4	1 1/4	400	26	36.70	37.00	37.55
C-149-1 1/2	1 1/2	400	26	42.80	43.10	43.65
C-149-2	2	400	31	48.50	48.85	49.55
C-149-2 1/2	2 1/2	500	66	55.70	56.40	57.85
C-149-3	3	500	72	61.60	62.35	63.95
C-149-3 1/2	3 1/2	500	84	67.40	68.35	70.20
C-149-4	4	800	178	140.10	142.10	146.00
C-149-5	5	800	199	154.60	156.80	161.20
C-149-6	6	1000	225	190.40	192.85	197.80
C-149-8	8	1100	250	225.00	227.75	233.25

6-H SERIES CONDUIT AND PIPE HANGERS

For hanging conduit and pipe. Fast, easy and economical to use. May be fastened directly to a #500 Beam Clamp or suspended on 1/4" hanger rod. Standard finish: Electrogalvanized.



6-H Series without closure bolt

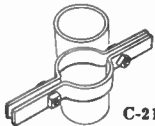


6-HO Series with closure bolt and square nut

Conduit Size, In.	EMT	Per 100			
		Without Closure Bolt		With Closure Bolt	
	Cat. No.	Price	Cat. No.	Price	
3/8-1/2	1/2	6HO	\$4.39	6HO-B	\$5.26
3/4	3/4	6H1	4.85	6H1-B	5.82
1	1	6H2	6.43	6H2-B	7.76
1 1/4	1 1/4	6H2 1/2	6.79	6H2 1/2-B	8.17
1 1/2	1 1/2	6H3	7.05	6H3-B	8.43
2	2	6H4	8.68	6H4-B	10.42
2 1/2	2 1/2	6H5	10.52	6H5-B	12.25
3	3	6H6	11.65	6H6-B	13.38
3 1/2	3 1/2	6H7	14.25	6H7-B	16.04
		6H8	16.80	6H8-B	18.59

C-210 RISER CLAMPS

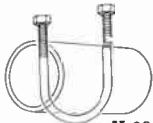
Firmly grips vertically mounted pipe or conduit and distributes the load over a larger area. Two bolts and nuts included. Galv-krom finish.



Cat. No.	Size In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
C-210-1/2	1/2	138	\$50.90	\$52.40	\$55.50
C-210-3/4	3/4	140	51.90	53.55	56.85
C-210-1	1	150	53.50	55.30	58.80
C-210-1 1/4	1 1/4	200	72.90	75.00	79.10
C-210-1 1/2	1 1/2	205	77.50	79.70	84.10
C-210-2	2	224	81.40	83.80	88.70
C-210-2 1/2	2 1/2	241	96.80	99.55	105.05
C-210-3	3	270	98.00	101.00	106.90
C-210-3 1/2	3 1/2	335	113.60	117.00	123.90
C-210-4	4	340	118.00	121.70	128.90

H-286 U BOLTS

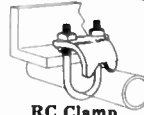
'U' Bolts to support, anchor or guide pipe lines. Furnished with one hex nut per leg. Galv-krom finish.



Cat. No.	Size In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
H-286-3/8	3/8	7	\$ 6.90	\$ 7.10	\$ 7.50
H-286-1/2	1/2	13	9.00	9.20	9.60
H-286-3/4	3/4	15	11.00	11.30	11.75
H-286-1	1	16	12.20	12.50	13.00
H-286-1 1/4	1 1/4	17	13.50	13.70	14.30
H-286-1 1/2	1 1/2	18	14.60	14.90	15.50
H-286-2	2	32	19.40	19.80	20.60
H-286-2 1/2	2 1/2	34	22.60	23.30	24.60
H-286-3	3	38	25.30	26.10	27.70
H-286-3 1/2	3 1/2	40	30.50	31.30	33.00
H-286-4	4	46	35.70	36.60	38.40

ANGLE CLAMPS

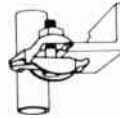
To fasten pipe directly to beam. Electro-plated.



RC Clamp

RC Clamp
For mounting pipe or conduit at right angle to the beam.

Cat. No.	Size In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
RC-3/8	3/8	25	\$26.20	\$26.65	\$27.00
RC-1/2	1/2	41	27.45	28.15	28.65
RC-3/4	3/4	46	28.60	29.20	30.00
RC-1	1	51	31.65	32.55	33.25
RC-1 1/4	1 1/4	54	34.95	35.90	36.65
RC-1 1/2	1 1/2	58	39.75	40.75	41.50
RC-2	2	86	57.35	58.85	60.00
RC-2 1/2	2 1/2	109	67.75	69.60	71.10
RC-3	3	118	76.45	78.55	80.05
RC-3 1/2	3 1/2	134	92.80	95.20	96.90
RC-4	4	144	101.85	104.30	106.35



EC Clamp

EC Clamp
For mounting pipe or conduit vertically across beam edge.

Cat. No.	Size In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
EC-1/2	1/2	68	\$52.40	\$53.60	\$54.55
EC-3/4	3/4	76	54.60	55.95	57.00
EC-1	1	86	62.25	63.80	65.00
EC-1 1/4	1 1/4	98	73.20	74.90	76.25
EC-1 1/2	1 1/2	105	81.90	83.80	85.30
EC-2	2	141	98.30	100.75	102.55
EC-2 1/2	2 1/2	188	125.60	128.85	131.30
EC-3	3	232	147.40	151.50	154.55



PC Clamp

PC Clamps
For mounting pipe or conduit parallel to beam.

Cat. No.	Size In.	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
PC-3/8	3/8	31	\$29.50	\$30.05	\$30.40
PC-1/2	1/2	54	35.50	36.50	37.15
PC-3/4	3/4	57	38.20	39.25	39.95
PC-1	1	64	41.50	42.65	43.50
PC-1 1/4	1 1/4	81	51.85	53.30	54.35
PC-1 1/2	1 1/2	92	58.95	60.60	61.85
PC-2	2	116	76.45	78.80	80.55
PC-2 1/2	2 1/2	148	89.55	92.15	94.00
PC-3	3	178	109.20	112.45	114.90
PC-3 1/2	3 1/2	209	125.60	129.20	131.25
PC-4	4	224	136.50	140.40	143.35

E-768 COLUMN MOUNT SUPPORT

For use with 1 1/2" x 1 1/2" channel. Provides rigid support between 'H' beam flanges for mounting pipe, conduit, outlet boxes, panel boards. Two required for each installation. Galv-krom finish.

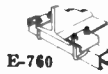


E-768

Cat. No.	Wt. Lbs. Per 100	Per 100		
		Zone A	Zone B	Zone C
E-768	55	\$76.30	\$76.90	\$78.15



Use 1 1/2" x 1 1/2" Kindorf Channel



E-760

E-760 CHANNEL TO BEAM CLAMP

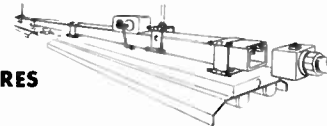
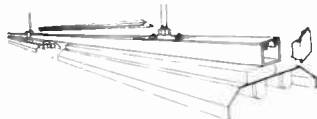
Secures channel to beam. Fits all I-beam where flange edge does not exceed .8" thickness. Load rating each clamp 1,275 lbs., safety factor of 5. Galv-krom finish. Two required.

Cat. No.	For Channel	Wt. Lbs. Per 100	Per 100		
			Zone A	Zone B	Zone C
E-760-1	B-906, B-907	77	\$57.50	\$58.40	\$60.10
E-760-2	B-900, B-905	80	59.90	60.80	62.60
E-760-3	B-900-2A, B-902, B-903	88	64.60	65.60	67.60

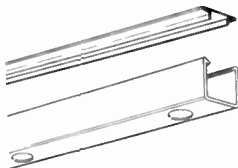
KINDORF CHANNEL LIGHTING SYSTEMS

HANGS AND FEEDS THE FIXTURES

RACEWAY CHANNEL WITH FIXTURE FEED THRU K.O.'S RACEWAY CHANNEL WITH "PLUG-IN" OUTLETS FOR FIXTURES



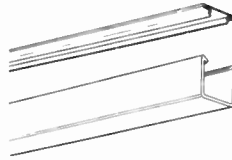
RACEWAY CHANNELS AND CLOSURE STRIP



KNOCKOUT CHANNELS

1/2" K.O.'s on 6" Centers

- Two Depths
10' and 20' Lengths
- G-975 1 1/2" x 1 1/2" — 12 gage steel
 - G-975-M 1 1/2" x 1 1/2" — 14 gage steel
 - G-955 1 1/2" x 3" — 12 gage steel



SOLID BASE CHANNELS

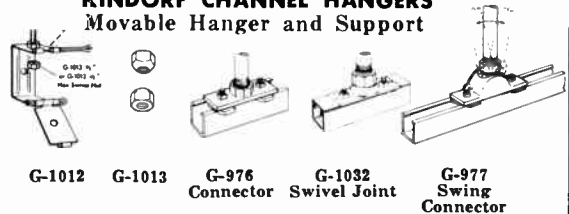
- Three Depths
10' and 20' Lengths
- B-906 1 1/2" x 3/4" — 14 gage steel
 - B-900 1 1/2" x 1 1/2" — 12 gage steel
 - B-900-M 1 1/2" x 1 1/2" — 14 gage steel
 - B-902 1 1/2" x 3" — 12 gage steel

G-969 Closure Strip

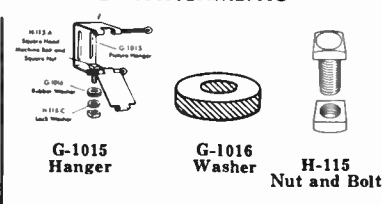
All channels have 7/8" continuous open slot
Listed by Underwriters' Laboratories, Inc. and C.S.A.

KINDORF CHANNEL HANGERS

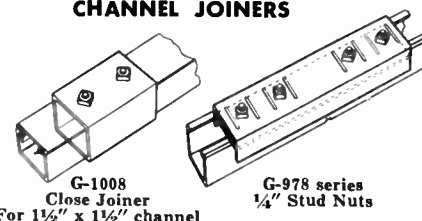
Movable Hanger and Support



FIXTURE ATTACHMENTS

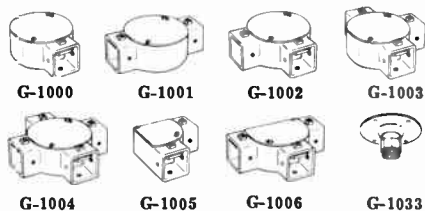


CHANNEL JOINERS

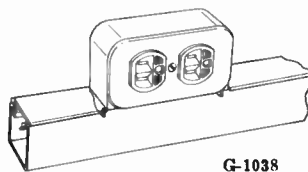


JUNCTION BOXES & COVERS

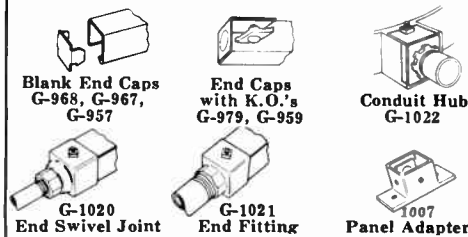
For 1 1/2" x 1 1/2" Channel System



FIXTURE PLUG-IN



CHANNEL END CAPS & CONDUIT FEEDS



Cat. No.	Description	Per 100		
		Zone A	Zone B	Zone C
G-957	Blank End Cap for 3" deep channel	\$22.50	\$22.70	\$23.00
G-959	End Cap two 1/2" K.O.'s for 3" deep channel	31.80	32.15	32.85
G-967	Blank End Cap for 1 1/2" deep channel	9.40	9.50	9.80
G-968	Blank End Cap for 3/4" deep channel	8.70	8.75	8.80
G-969	Closure Strip	19.20	19.60	20.40
G-972-1/2	1/2" (Pipe Size) Fixture Feed thru K.O.'s or slot	16.00	16.10	16.25
G-972-3/4	3/4" (Pipe Size) Fixture Feed thru K.O.'s or slot	18.50	18.60	18.85
G-974-1/2	1/2" Long Fixture Support thru K.O. or slot	12.80	12.85	13.00
G-974-3/4	3/4" Long Fixture Support thru K.O. or slot	12.80	12.90	13.00
G-976	Feeds and Hangs channel — accepts 1/2" or 3/4" conduit	75.65	76.40	77.80
G-977	Swing Connector — feeds channel — accepts 1/2" or 3/4" conduit	226.50	227.95	230.80
G-978	Joiner for B-900 and G-978 channel	92.95	94.60	97.90
G-978-C	Joiner for B-901, G-950, G-965 channel	92.50	93.85	96.55
G-978-D	Joiner for G-955, B-902 channel	93.80	95.30	98.30
G-978-L	Joiner for B-906 channel	86.50	87.80	90.40
G-978-M	Joiner for G-975-M, B-900-M channel	92.95	94.60	97.90
G-979	End Cap 1/2" or 3/4" K.O. for 1 1/2" deep channel	28.40	28.70	29.25
G-1000	Junction Box — Dead End	255.00	260.00	265.00
G-1001	Junction Box — Straight thru	295.00	300.00	305.00
G-1002	Junction Box — 90° — L	295.00	300.00	305.00
G-1003	Junction Box — 3-way T	345.00	350.00	355.00
G-1004	Junction Box — 4-way X	385.00	390.00	395.00
G-1005	Junction Box — Close L	255.00	260.00	265.00
G-1006	Junction Box — Close T	310.00	315.00	320.00

Cat. No.	Description	Per 100		
		Zone A	Zone B	Zone C
G-1012	Channel Hanger for 1 1/2" Deep Channel	\$45.25	\$45.70	\$46.50
G-1012-D	Channel Hanger for 3" Deep Channel	45.25	45.70	46.50
G-1013-3/8	3/8" Nut for rod attachment to G-1012 hangers	8.00	8.10	8.25
G-1013-1/2	1/2" Nut for rod attachment to G-1012 hangers	8.00	8.05	8.20
G-1015	Fixture Hanger for 1 1/2" deep channel	45.05	45.40	46.10
G-1015-D	Fixture Hanger for 3" deep channel	45.05	45.40	46.10
G-1016	Rubber Washer for G-1015 Fixture	6.15	6.20	6.35
G-1020	Channel End Feed for 1 1/2" deep channel — accepts 1/2" or 3/4" conduit	230.00	235.00	240.00
G-1021	Channel End Feed for 1/2" deep channel — accepts 1" conduit	140.00	145.00	150.00
G-1022	Conduit Hub with 1/2", 3/4" or 1" K.O.	29.00	29.30	29.90
G-1032	Swivel Joint for 1/2" or 3/4" conduit	160.50	160.80	161.35
G-1033	Swivel Cover for Junction boxes	240.00	245.00	250.00
G-1038	Duplex ground receptacle for raceway channel	300.00	300.60	301.80
G-1038-A	Single ground receptacle for raceway channel	270.00	270.55	271.65
H-115-A	Nut and bolt for G-1015 fixture hanger	7.40	7.50	7.70
H-118-C	Lock Washer for G-1015 fixture hanger	1.15	1.20	1.25

STEEL CITY SLOTTED ANGLE

Three Sizes... The Right Strength for Every Job

EXCLUSIVE TIME SAVER FEATURES

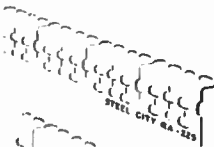
- Measuring lines every 3/4" and every 3"
- Slot and hole pattern for rigid assembly
- Cuts in one easy, burr-free stroke
- Galvanized after punching — complete rust resistance
- Packaged for "one-man" carry

All three sizes available in ten or twelve foot lengths — five lengths to the standard package with 36 3/8" hex bolts and an equal number of serrated nuts.



**RA-160
LIGHT DUTY**

1 5/8" x 1 5/8" x .080" (14 gauge)



**RA-225
HEAVY DUTY**

2 3/8" x 1 5/8" x .080" (14 gauge)



**RA-300
EXTRA HEAVY DUTY**

3 1/8" x 1 5/8" x .104" (12 gauge)

ACCESSORIES

Gusset Plate — RA-GP



A three-hole connector for all three sizes of slotted angle. Assures extra-rigid angle assemblies. Standard package 25.

**Casters
Rigid and Swivel Type**



Rigid Casters, RA-RC, and Swivel Casters, RA-SC, have large 3 1/2" diameter wheels of hard rubber composition. Casters are 4 3/4" high with mounting plate holes on 3-inch centers to match slotted angle hole pattern. Each caster supports 225 lbs. Packaged in sets of two.

PORTABLE CUTTER

For Slotted Angle



RA-C Portable Cutter cuts all sizes. Single stroke — clean, burr-free cuts. Positioning device assures accurate cutting.

BOLTS AND NUTS

Available separately. Nuts are serrated for self-locking.

RA-BN- 5/8" 3/8" — 16 x 5/8" long
RA-BN- 3/4" 3/8" — 16 x 3/4" long

Cat. No.	Wt. Lbs. Per 100 Ft.	Per 100 Feet		
		Zone A	Zone B	Zone C
RA-160	78	\$26.00	\$26.50	\$27.00
RA-225	95	30.00	30.60	31.20
RA-300	149	42.40	43.20	44.20

Cat. No.	Wt. Lbs. Per 100	Per 100		
		Zone A	Zone B	Zone C
RA-GP	10	\$8.00	\$8.15	\$8.30

Cat. No.	Wt. Lbs. Per Pair	Per Pair		
		Zone A	Zone B	Zone C
RA-RC	3	\$7.20	\$7.35	\$7.50
RA-SC	5 1/2	8.10	8.35	8.50

Cat. No.	Wt. Lbs. Each	Each		
		Zone A	Zone B	Zone C
RA-C	17	\$35.00	\$35.50	\$36.00

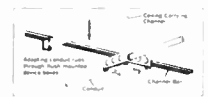
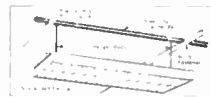
Cat. No.	Wt. Lbs. Per 100 Sets	Per 100 Sets		
		Zone A	Zone B	Zone C
RA-BN- 5/8"	4 1/2	\$3.50	\$2.60	\$3.75
RA-BN- 3/4"	5	3.75	3.90	4.00

STEEL CITY BANTAM CHANNELS

Practical and economical channel bars simplify the support of overhead fixtures, conduit pipe and boxes in suspended ceiling installations.

Installed slot-down, the open slot accommodates and allows easy positioning of Channel Bar accessory fittings or 1/4" hanger rod to support light and medium weight equipment.

TYPICAL APPLICATIONS



**Bantam Ribbed Channels
(Extra Strength)**

Cat. No.	Description
6029	16 gage (.060")
6028	18 gage (.044")
6027	20 gage (.034")



**Bantam Lightweight Channels
(Single and Double)**

6012	Double Channel Bar
6013	20 gage (.044")
6014	18 gage (.034")

BANTAM CHANNEL ACCESSORIES



**6015
Fixture Stud
and carrier**



**6016
Fastener
and carrier**



**6026
Joiner for
Ribbed Channel**



**6025
Channel Fastener
secures channel bar
to lathers channel
and other ceiling
carrying channel**



**6024
Beam Flange Clip
secures channel to I-
beam, angle iron or
bar joists.**



**6075
T-Bar Clip mounts
electrical fixtures to
exposed acoustical
ceilings. Fits 3/8" or
1" Bar face. Furnished complete with
cupped washer and
wing nut.**

Channel Bar Cat. No.	Wt. Lbs. Per 100 Ft.	Per 100 Feet		
		Zone A	Zone B	Zone C
6012	33	\$19.10	\$20.00	\$21.00
6013	17	9.55	10.00	10.55
6014	16	9.55	10.00	10.55
6029	45	18.25	19.25	20.10
6028	35	14.95	15.70	16.45
6027	27	12.20	12.85	13.40

Accessories Cat. No.	Wt. Lbs. Per 100	Per 100		
		Zone A	Zone B	Zone C
6015	7	\$12.50	\$13.15	\$13.80
6016	6	9.60	10.05	10.55
6024	3 1/4	8.25	8.70	9.10
6025	4/5	6.25	6.60	6.85
6026	41	33.00	34.60	36.30
6075	8	15.00	15.10	15.30

RALCO WEATHERPROOF* CIRCUIT BREAKING RECEPTACLES AND PLUGS

FLAT BLADE CONTACT TYPE — TWO, THREE AND FOUR POLE — 30-60-100 AMPERE — 250 VOLT A.C., D.C., 600 VOLT A.C.

FEMALE RECEPTACLES AND MALE INLETS



All Grounded Through Housing With Self-Closing Cover
Ralco Division of Harvey Hubbell, Inc.
Type A and Type AM castings are identical, however Type A units contain female contacts — Type AM male contacts. Receptacle housings and conduit body are cast aluminum.
Other style back boxes available.

Type A or Type AM

Female Receptacles		No. of Poles	Conduit Size In.	Male Inlets	
Cat. No.	Each			Cat. No.	Each
30 Ampere					
221-A-1	\$11.60	2	1/2	221-AM-1	\$11.60
221-A-2	11.76	2	3/4	221-AM-2	11.76
321-A-2	12.56	3	3/4	321-AM-2	12.56
321-A-3	12.72	3	1	321-AM-3	12.72
321-A-4	12.92	3	1 1/4	321-AM-4	12.92
421-A-3	14.00	4	1	421-AM-3	14.00
421-A-4	14.24	4	1 1/4	421-AM-4	14.24
60 Ampere					
222-A-3	18.64	2	1	222-AM-3	18.64
222-A-4	18.80	2	1 1/4	222-AM-4	18.80
322-A-4	20.24	3	1 1/4	322-AM-4	20.24
322-A-5	20.32	3	1 1/2	322-AM-5	20.32
422-A-5	23.76	4	1 1/2	422-AM-5	23.76
100 Ampere†					
103-A-4	27.16	3	1 1/4	103-AM-4	27.16
103-A-5	27.24	3	1 1/2	103-AM-5	27.24

PLUGS

With Cable Grip
2-Pole — 3-Wire
3-Pole — 4-Wire
4-Pole — 5-Wire



Type PRG or Type PRGF

For Use with Type A above For Use with Type AM above

Male Plug		No. of Poles	Cable Dia.	Female Plug	
Cat. No.	Each			Cat. No.	Each
30 Ampere					
PRG-				PRGF-	
221-9	\$9.64	2	.437 to .562	211-9	\$8.92
221-11	9.64	2	.562 to .687	221-11	8.92
221-13	9.64	2	.687 to .812	221-13	8.92
321-9	10.36	3	.437 to .562	321-9	9.64
321-11	10.36	3	.562 to .687	321-11	9.64
321-13	10.36	3	.687 to .812	321-13	9.64
321-15	10.36	3	.812 to .937	321-15	9.64
421-9	11.24	4	.437 to .562	421-9	10.84
421-11	11.24	4	.562 to .687	421-11	10.84
421-13	11.24	4	.687 to .812	421-13	10.84
421-15	11.24	4	.812 to .937	421-15	10.84
60 Ampere					
222-16	12.56	2	.875 to 1.000	222-16	12.08
222-18	12.56	2	1.000 to 1.125	222-18	12.08
222-20	12.56	2	1.125 to 1.250	222-20	12.08
322-16	13.40	3	.875 to 1.000	322-16	12.90
322-18	13.40	3	1.000 to 1.125	322-18	12.90
322-20	13.40	3	1.125 to 1.250	322-20	12.90
322-22	13.40	3	1.250 to 1.375	322-22	12.90
422-16	14.08	4	.875 to 1.000	422-16	14.12
422-18	14.08	4	1.000 to 1.125	422-18	14.12
422-20	14.08	4	1.125 to 1.250	422-20	14.12
422-22	14.08	4	1.250 to 1.375	422-22	14.12
100 Ampere†					
103-25	21.28	3	1.437 to 1.562	103-25	19.24
103-27	21.28	3	1.562 to 1.687	103-27	19.24
103-29	21.28	3	1.687 to 1.812	103-29	19.24

*Also available in watertight.

†Not Circuit Breaking Watertight.

Listed by Underwriters Laboratories, Inc.

PIN AND SLEEVE CONTACT TYPE — TWO, THREE, FOUR AND FIVE POLE — 30 AMPERE — 250 VOLT A.C.

FEMALE RECEPTACLES AND MALE INLETS

With Self-Closing Cover

Ralco Division of Harvey Hubbell, Inc.



Type A and Type AM castings are identical, however Type A units contain female contacts — Type AM male contacts. Receptacle housings and conduit body are cast aluminum.

Other style back boxes available.

Type A or Type AM

Female Receptacles		No. of Poles	Conduit Size In.	Male Inlets	
Cat. No.	Each			Cat. No.	Each
52-A-1	\$11.60	2	1/2	52-AM-1	\$11.60
52-A-2	11.76	2	3/4	52-AM-2	11.76
53-A-2	12.56	3	3/4	53-AM-2	12.56
54-A-3	14.00	4	1	54-AM-3	14.00
55-A-3	15.92	5	1	55-AM-3	15.92

PLUGS

With Cable Grip

**2-Pole — 3-Wire

**3-Pole — 4-Wire

4-Pole — 4-Wire

5-Pole — 5-Wire



Type PA or Type PAF

For Use with Type A above For Use with Type AM above

Male Plug		No. of Poles	Cable Dia.	Female Plug	
Cat. No.	Each			Cat. No.	Each
52-PA-7	\$9.84	2	.312 to .437	52-PAF-7	\$9.84
52-PA-9	9.84	2	.437 to .562	52-PAF-9	9.84
52-PA-11	9.84	2	.562 to .687	52-PAF-11	9.84
52-PA-13	9.84	2	.687 to .812	52-PAF-13	9.84
53-PA-9	9.96	3	.437 to .562	53-PAF-9	10.04
53-PA-11	9.96	3	.562 to .687	53-PAF-11	10.04
53-PA-13	9.96	3	.687 to .812	53-PAF-13	10.04
53-PA-15	9.96	3	.812 to .937	53-PAF-15	10.04
54-PA-9	11.20	4	.437 to .562	54-PAF-9	11.24
54-PA-11	11.20	4	.562 to .687	54-PAF-11	11.24
54-PA-13	11.20	4	.687 to .812	54-PAF-13	11.24
54-PA-15	11.20	4	.812 to .937	54-PAF-15	11.24
55-PA-9	13.24	5	.437 to .562	55-PAF-9	12.76
55-PA-11	13.24	5	.562 to .687	55-PAF-11	12.76
55-PA-13	13.24	5	.687 to .812	55-PAF-13	12.76
55-PA-15	13.24	5	.812 to .937	55-PAF-15	12.76

*Also available in watertight.

**Grounded through housing.

Listed by Underwriters Laboratories, Inc.

R & S MIDGET EVER-LOK RECEPTACLES

Division of Midland-Ross Corp.

Automatic Locking

TYPE M RECEPTACLES

10 Amp., 250 Volts, A.C. or D.C.
 20 Amp., 125 Volts, A.C.—15 Amp., 125 Volts, D.C.
 Two, Three and Four Pole—Polarized
 Maximum Horsepower Ratings:
 1/2 Hp., 1-Phase—1 Hp. 3-Phase, 115 Volts, 230 Volts, A.C.

FOR FS AND SIMILAR CONDUIT FITTINGS



No. 8703



No. 8733

Description	With Spring-Hinged Flap		Without Flap		Takes Plug No.
	Cat. No.	List Each	Cat. No.	List Each	
Single Receptacle with Cover					
2 wire, 2 pole	8702	\$4.75	8802	\$4.25	8712
2 wire, 3 pole	8703	4.85	8803	4.35	8713
3 wire, 4 pole	8704	4.95	8804	4.45	8714
Duplex Receptacle with Cover					
2 wire, 2 pole	8732	7.30	8832	6.30	8712
2 wire, 3 pole	8733	7.50	8833	6.50	8713
3 wire, 4 pole	8734	7.70	8834	6.70	8714

Covers—Heavy gage steel, cadmium plated. Furnished with 6-32 mounting screws. Can be furnished with 10-24 screws at same price, if specified on order.



No. 8753



No. 8773

Description	Single Receptacle with Cover		Duplex Receptacle with Cover	
	Cat. No.	List Each	Cat. No.	List Each
2 wire, 2 pole	8752	\$6.75	8852	\$6.25
2 wire, 3 pole	8753	6.85	8853	6.35
3 wire, 4 pole	8754	6.95	8854	6.45
2 wire, 2 pole	8772	9.30	8872	8.30
2 wire, 3 pole	8773	9.50	8873	8.50
3 wire, 4 pole	8774	9.70	8874	8.70

Covers—Heavy gage steel, cadmium plated. Boxes—Cast iron, corrosion resisting baked enamel finish. Can be furnished in gang or tandem units and in combination with other R & S Type FS and FD devices.

Outlets—Unless otherwise specified, furnished with a 3/4-inch outlet one end. Additional or larger outlets charged extra. Maximum conduit 1-inch, four way. Specify size and location.

FLUSH RECEPTACLES

For 4-Inch Stamped Steel Outlet Boxes with Raised Covers



No. 8743



No. 8763

Description	Single Receptacle with Flush Plate		Duplex Receptacle with Flush Plate	
	Cat. No.	List Each	Cat. No.	List Each
2 wire, 2 pole	8742	\$5.35	8842	\$4.75
2 wire, 3 pole	8743	5.45	8843	4.85
3 wire, 4 pole	8744	5.55	8844	4.95
2 wire, 2 pole	8762	9.30	8862	7.80
2 wire, 3 pole	8763	9.50	8863	8.00
3 wire, 4 pole	8764	9.70	8864	8.20

R & S MIDGET EVER-LOK PLUGS AND CONNECTORS

Division of Midland-Ross Corp.

Automatic Locking

TYPE M PLUGS AND CONNECTORS

10 Amp., 250 Volts, A.C. or D.C.
 20 Amp., 125 Volts, A.C.—15 Amp., 125 Volts, D.C.
 Two, Three and Four Pole—Polarized
 Maximum Horsepower Ratings:
 1/2 Hp., 1-Phase—1 Hp., 3-Phase, 115 Volts, 230 Volts, A.C.

Clamp Type



No. 8713



No. 8723

Description	Plugs—Male End		Connectors—Female End		Cable Dia., In.
	Cat. No.	List Each	Cat. No.	List Each	
2 wire, 2 pole	8712	\$4.05	8722	\$4.75	1/2
2 wire, 3 pole	8713	4.15	8723	4.85	1/2
3 wire, 4 pole	8714	4.25	8724	4.95	1/2

Bushing Type



No. 8813

Description	Plugs—Male End		Connectors—Female End		Cable Dia., In.
	Cat. No.	List Each	Cat. No.	List Each	
2 wire, 2 pole	8812	\$5.05	8822	\$5.75	• 1/2
2 wire, 3 pole	8813	5.15	8823	5.85	• 3/8
3 wire, 4 pole	8814	5.25	8824	5.95	• 3/8

Hub Type

Tapped for 1/2-Inch Conduit*



No. 8923

Description	Plugs—Male End		Connectors—Female End		Cable Dia., In.
	Cat. No.	List Each	Cat. No.	List Each	
2 wire, 2 pole	8912	\$4.55	8922	\$5.25	.....
2 wire, 3 pole	8913	4.65	8923	5.35	.....
3 wire, 4 pole	8914	4.75	8924	5.45	.....

Housing—Steel, cadmium plated.

*Accommodate rigid conduit or standard connectors for armored and non-metallic cable or flexible conduit. Can be furnished tapped for 3/8-inch conduit. Information on application.

*Cable bushing regularly furnished. Other hole size available if specified on order—1/4 to 3/4-inch diameter.

For Reverse Service add suffix "R" to above catalog numbers. Prices on application.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S EVER-LOK RECEPTACLES

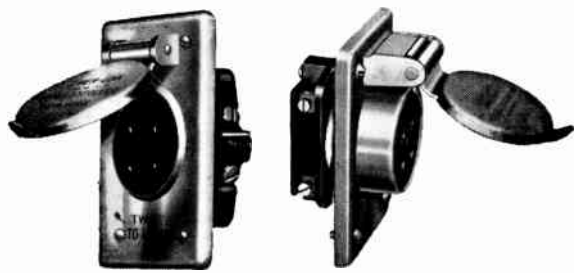
Division of Midland-Ross Corp.

Automatic Locking

TYPE S RECEPTACLES

Two, Three and Four Pole—Polarized

FOR FS AND SIMILAR CONDUIT FITTINGS



No. 8004

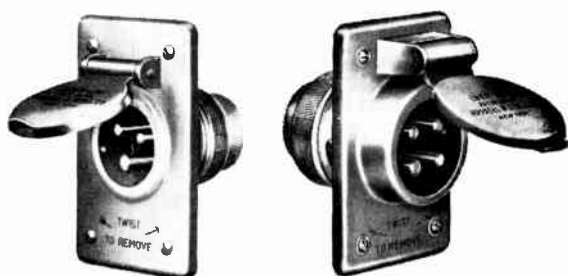
No. 8304

Receptacle With Cover

Description	With Spring Hinged Flap		Without Flap		Takes Plug No.
	Cat. No.	List Each	Cat. No.	List Each	
10 Amp., 600 Volts, A.C., 15 Amp., 250 Volts, A.C.					
10 Amp., 250 Volts, 20 Amp., 125 Volts, A.C. or D.C.					
2 wire, 2 pole	8002	\$4.90	8133	\$4.60	8012
2 wire, 3 pole	8003	5.00	8134	4.70	8013
3 wire, 4 pole	8008	5.10	8135	4.80	8018
20 Amp., 600 Volts, A.C.—30 Amp., 250 Volts, A.C. or D.C.					
2 wire, 2 pole	8006	5.65	8136	5.35	8016
2 wire, 3 pole	8005	5.75	8137	5.45	8015
3 wire, 4 pole	8004	5.85	8138	5.55	8014
30 Amp., 600 Volts, A.C., 250 Volts, A.C. or D.C.					
*3 wire, 4 pole	8304	7.00	8307	6.70	8314S

*30 ampere devices require type FD boxes.

REVERSE SERVICE — FOR FD AND SIMILAR CONDUIT FITTINGS



No. 8143

No. 8374

Male Receptacle with Cover

Description	With Spring Hinged Flap		Without Flap		Takes Female Plug
	Cat. No.	List Each	Cat. No.	List Each	
10 Amp., 600 Volts, A.C., 15 Amp., 250 Volts, A.C.					
10 Amp., 250 Volts, 20 Amp., 125 Volts, A.C. or D.C.					
2 wire, 2 pole	8142	\$7.90	8085	\$7.60	8022
2 wire, 3 pole	8143	8.00	8086	7.70	8023
3 wire, 4 pole	8144	8.10	8087	7.80	8028
20 Amp., 600 Volts, A.C.—30 Amp., 250 Volts, A.C. or D.C.					
2 wire, 2 pole	8145	8.65	8088	8.35	8026
2 wire, 3 pole	8146	8.75	8089	8.45	8025
3 wire, 4 pole	8147	8.85	8090	8.55	8024
30 Amp., 600 Volts, A.C., 250 Volts, A.C. or D.C.					
3 wire, 4 pole	8374	13.00	8377	12.70	8324S

Covers—Heavy gage steel, cadmium plated. Furnished with 6-32 mounting screws. Can be furnished with 10-24 screws at same price, if specified on order.

Hub and bushing type S plugs also fit the above receptacles.

R & S EVER-LOK PLUGS AND CONNECTORS

Division of Midland-Ross Corp.

Automatic Locking

Two, Three and Four Pole—Polarized

TYPE S PLUGS — MALE END



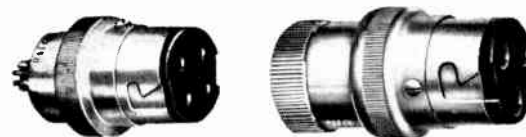
No. 8014

No. 8153

Description	Wires	Poles	Clamp Type			Bushing Type		
			Cat. No.	List Each	Max. Cable Dia., In.	Cat. No.	List Bushing Each	Cable Bushing Dia., In.
10 Amp., 600 Volts, A.C., 15 Amp., 250 Volts, A.C.								
10 Amp., 250 Volts, 20 Amp., 125 Volts, A.C. or D.C.								
2	2		8012	\$4.20	1/2	8152	\$5.20	9/16
2	3		8013	4.30	1/2	8153	5.30	5/8
3	4		8018	4.40	1/2	8158	5.40	1 1/8
20 Amp., 600 Volts, A.C.								
30 Amp., 250 Volts, A.C. or D.C.								
2	2		8016	4.95	5/8	8156	5.95	5/8
2	3		8015	5.05	5/8	8155	6.05	5/8
3	4		8014	5.15	5/8	8154	6.15	3/4
30 Amp., 600 Volts, A.C., 250 Volts, A.C. or D.C.								
3	4		8314S	6.00	3/4	8354	7.00	1
3	4		8314	6.00	1 1/8	†8354J	8.50	1

†Fitted with molded Duro Neoprene jacket for waterproof assembly with No. 8304 receptacle only.

TYPE S CONNECTORS — FEMALE END



No. 8024

No. 8093

Description	Wires	Poles	Clamp Type			Bushing Type		
			Cat. No.	List Each	Max. Cable Dia., In.	Cat. No.	List Bushing Each	Cable Bushing Dia., In.
10 Amp., 600 Volts, A.C., 15 Amp., 250 Volts, A.C.								
10 Amp., 250 Volts, 20 Amp., 125 Volts, A.C. or D.C.								
2	2		8022	\$4.90	1/2	8092	\$5.90	9/16
2	3		8023	5.00	1/2	8093	6.00	5/8
3	4		8028	5.10	1/2	8098	6.10	1 1/8
20 Amp., 600 Volts, A.C.								
30 Amp., 250 Volts, A.C. or D.C.								
2	2		8026	5.65	5/8	8096	6.65	5/8
2	3		8025	5.75	5/8	8095	6.75	5/8
3	4		8024	5.85	5/8	8094	6.85	3/4
30 Amp., 600 Volts, A.C., 250 Volts, A.C. or D.C.								
3	4		8324S	9.00	3/4	8394	10.00	1
3	4		8324	9.00	1 1/8	.....	.....	.....

Housings—Steel, cadmium plated.

*Neoprene cable bushing regularly furnished. Other hole sizes available if specified on order—10 ampere: 1/4 to 3/4-inch diameter—20 and 30 ampere strain relief type bushing: 3/8 to 1 1/8 inch diameter.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S EVER-LOK RECEPTACLES, PLUGS AND CONNECTORS

Division of Midland-Ross Corp.

Automatic Locking
TYPE SE — FOR AUTOMATIC PRESS AND TOOL CONTROL APPLICATIONS

5 Amp., 250 Volts, A.C. or D.C.
Two to Twelve Pole—Polarized

RECEPTACLES WITH COVER



No. SE9

Covers—Heavy gage steel, cadmium plated. Furnished with 6-32 mounting screws. Can be furnished with 10-24 screws, at same price, if specified.

Boxes—Use type FD cast boxes. Can be furnished with single gang cast iron conduit box No. 3711 at additional cost. When so required, add final suffix "D" to catalog number.

Interiors—Contacts are removable and have crimp type terminals for No. 12 wire. Regularly furnished with housings ungrounded. When required with one pole grounded to housing, add prime suffix "G" to catalog number. Same price.

With Female Receptacle

No. Poles	With Spring Hinged Flap		Without Flap		Takes Plug No.
	Cat. No.	List Each	Cat. No.	List Each	
2	SE2	\$9.00	SE302	\$8.70	PSE2
3	SE3	9.30	SE303	9.00	PSE3
4	SE4	9.60	SE304	9.30	PSE4
5	SE5	9.90	SE305	9.60	PSE5
6	SE6	10.20	SE306	9.90	PSE6
7	SE7	10.50	SE307	10.20	PSE7
8	SE8	10.80	SE308	10.50	PSE8
9	SE9	11.10	SE309	10.80	PSE9
10	SE10	11.40	SE310	11.10	PSE10
11	SE11	11.70	SE311	11.40	PSE11
12	SE12	12.00	SE312	11.70	PSE12

Reverse Service—With Male Receptacle

2	SE802	12.00	SE902	11.70	CSE2
3	SE803	12.30	SE903	12.00	CSE3
4	SE804	12.60	SE904	12.30	CSE4
5	SE805	12.90	SE905	12.60	CSE5
6	SE806	13.20	SE906	12.90	CSE6
7	SE807	13.50	SE907	13.20	CSE7
8	SE808	13.80	SE908	13.50	CSE8
9	SE809	14.10	SE909	13.80	CSE9
10	SE810	14.40	SE910	14.10	CSE10
11	SE811	14.70	SE911	14.40	CSE11
12	SE812	15.00	SE912	14.70	CSE12

PLUGS AND CONNECTORS



No. PSE9



No. CSE9

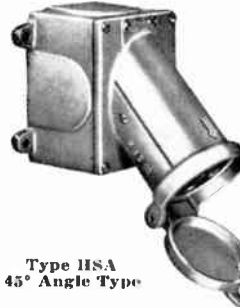
No. Poles	Plugs—Male End		Connectors—Female End		Cable Bushing Hole Dia.
	Cat. No.	List Each	Cat. No.	List Each	
2	PSE2	\$11.70	CSE2	\$14.90	9/16
3	PSE3	12.00	CSE3	15.20	9/16
4	PSE4	12.30	CSE4	15.50	1 1/16
5	PSE5	12.60	CSE5	15.80	8/4
6	PSE6	12.90	CSE6	16.10	7/4
7	PSE7	13.20	CSE7	16.40	7/4
8	PSE8	13.50	CSE8	16.70	7/8
9	PSE9	13.80	CSE9	17.00	7/8
10	PSE10	14.10	CSE10	17.30	1
11	PSE11	14.40	CSE11	17.60	1
12	PSE12	14.70	CSE12	17.90	1

*Cable bushing regularly furnished. Other hole sizes available — 3/8 to 1 1/2-inch diameter.

Housings — Steel, cadmium plated with cast aluminum alloy cable clamp and neoprene bushing.

Automatic Locking
Two, Three and Four Pole — Polarized
480 Volts, A.C.—250 Volts A.C. or D.C.
30 to 200 Amperes

TYPE HS HEAVY SERVICE RECEPTACLES
Weathertight—With Flap Cover



Type HSA
45° Angle Type

Enclosures—Cast iron, corrosion resisting baked enamel finish, except 100 amp. which are cast aluminum alloy.

Outlets—Unless otherwise specified, furnished with one outlet top or bottom as follows: 30 amp. 3/4-inch; 60 amp. 1 1/4-inch; 100 amp. 1 1/2-inch; 200 amp. 2-inch. Additional or larger outlets charged extra. Maximum conduit size as listed, four way. Specify size and location.

Type HSA With Box For Surface Mtg. Type HSB Less Box For Box Wall or Panel Mtg.

Description Wires Poles	Cat. No.	List Each	Max. Cond. In.	Type HSA		Takes Plug No.
				Cat. No.	List Each	
30 Amperes						
*2	2	8402	\$15.50	1 1/4	HSB8402	\$13.00 8406
2	3	8403	15.50	1 1/4	HSB8403	13.00 8407
3	4	8404	16.50	1 1/4	HSB8404	14.00 8408
60 Amperes						
*2	2	8412	31.00	1 1/2	HSB8412	26.00 8416
2	3	8413	31.00	1 1/2	HSB8413	26.00 8417
3	4	8414	33.00	1 1/2	HSB8414	28.00 8418
100 Amperes						
		LRFA-			LRFB-	LP-
*2	2	1022	41.50	2	1022	32.50 1022
2	3	1023	41.50	2	1023	32.50 1023
3	4	1034	44.00	2	1034	35.00 1034
200 Amperes						
*2	2	8432	126.00	3	HSB8432	106.00 8436
2	3	8433	126.00	3	HSB8433	106.00 8437
3	4	8434	130.00	3	HSB8434	110.00 8438

*Have small size flanges.

TYPE HS HEAVY SERVICE PLUGS AND CONNECTORS



Description Wires Poles	Plugs—Male End Only		Connectors—Female End Only		Max. Cable Dia., In.
	Cat. No.	List Each	Cat. No.	List Each	
30 Amperes					
*2	2	8406	\$18.00	8442	\$18.50 1
2	3	8407	18.00	8443	18.50 1
3	4	8408	19.00	8444	19.50 1
60 Amperes					
*2	2	8416	27.00	8452	30.00 1 1/2
2	3	8417	27.00	8453	30.00 1 1/2
3	4	8418	29.00	8454	32.00 1 1/2
100 Amperes					
		LP-		LC-	
*2	2	1022	35.50	1022	38.00 1 1/2
2	3	1023	35.50	1023	38.00 1 1/2
3	4	1034	38.00	1034	40.50 1 1/2
200 Amperes					
*2	2	8436	111.00	8472	101.00 2 1/4
2	3	8437	111.00	8473	101.00 2 1/4
3	4	8438	115.00	8474	105.00 2 1/4

*Have no provision for equipment grounding; all others have equipment ground thru separate pole.

For Reverse Service add suffix "R" to above catalog numbers. Prices on application.

Housings — Cast aluminum alloy, natural finish.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S SAF-T-ARC® RECEPTACLES

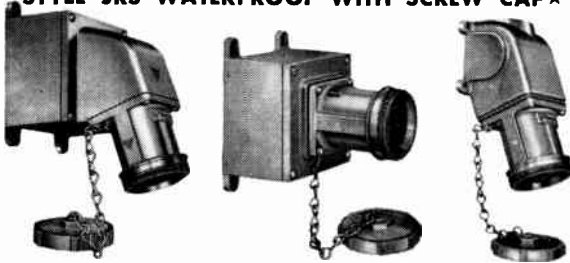
Division of Midland-Ross Corp.

TYPE J — CIRCUIT BREAKING

30 To 200 Amperes

Two Three and Four Wire — Polarized
600 Volts, A-C — 250 Volts, A-C or D-C

STYLE JRS WATERPROOF WITH SCREW CAP*




JRSA

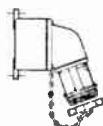
JRSR

JRSE

Complete circuit breaking safety. Quick conversion from weathertight to waterproof styles or reverse service. Basic receptacle accommodates screw cap or flap cover which may be rotated and locked in any position. Waterproof and weather-tight plugs may be used interchangeably. Non-interchangeable polarization for different electrical systems available.

Style	Wires	Poles	Cat. No.	List Each	Cat. No.
	2*	2	JRS322K	\$12.00	JPS322K
	2	3	JRS323H	12.00	JPS323H
	3*	3	JRS333F	12.00	JPS333F
	3	4	JRS334H	13.00	JPS334H
	4*	4	JRS344F	13.00	JPS344F

Above have screw cap. For component or panel mounting.



JRSA

2*	2	JRSA322K	16.50	JPS322K
2	3	JRSA323H	16.50	JPS323H
3*	3	JRSA333F	16.50	JPS333F
3	4	JRSA334H	17.50	JPS334H
4*	4	JRSA344F	17.50	JPS344F

Above have screw cap, angle adapter and box. Max. conduit 1/4".



JRSE

2*	2	#JRSE322K	15.75	JPS322K
2	3	#JRSE323H	15.75	JPS323H
3*	3	#JRSE333F	15.75	JPS333F
3	4	#JRSE334H	16.75	JPS334H
4*	4	#JRSE344F	16.75	JPS344F

Above have screw cap and angle enclosure. Max. conduit 1".



JRSH

2*	2	■JRSH322K	17.00	JPS322K
2	3	■JRSH323H	17.00	JPS323H
3*	3	■JRSH333F	17.00	JPS333F
3	4	■JRSH334H	18.00	JPS334H
4*	4	■JRSH344F	18.00	JPS334F

Above have screw cap, angle adapter and hor. box. Max. conduit 1/4".



JRSR

2*	2	JRSR322K	16.50	JPS322K
2	3	JRSR323H	16.50	JPS323H
3*	3	JRSR333F	16.50	JPS333F
3	4	JRSR334H	17.50	JPS334H
4*	4	JRSR344F	17.50	JPS344F

Above have screw cap, straight adapter and box. Max. conduit 1/4"

†Nos. listed are for 30A units. For other sizes change first digit 3 to 6 for 60A, to 10 for 100A, to 20 for 200A. Prices on Application.

*Have provision for equipment grounding through enclosure only; all others have equipment ground through separate pole.

■Available in 30A size only.

#Available in 30A and 60A sizes only.

Housings—Cast Aluminum alloy. Natural Finish.

Outlets — Unless otherwise specified, furnished with one outlet as follows: 30A—3/4-in., 60A—1 1/4-in., 100A—1 1/2-in., 200A—2-in. Extra charge for change. Max. conduit: 60A—1 1/2-in; 100A—2-in., except type JRSE 1 1/2-in; 200A—3-in. Specify size and location.

R & S SAF-T-ARC® PLUGS AND CABLE CONNECTORS

Division of Midland-Ross Corp.

TYPE J — CIRCUIT BREAKING

30 to 200 Amperes

Two Three and Four Wire — Polarized
600 Volts, A-C — 250 Volts, A-C or D-C

STYLE JPS WATERPROOF PLUGS AND STYLE JCS WATERPROOF CONNECTORS WITH SCREW CAP*



Style JCS Connector



Style JPS Plug

Wires	Poles	Plugs Male End Only	List Each	Connectors Female End Only	List Each	Cable Bushing Hole
		Cat. No.		Cat. No.		Diam. In. #
30 Amperes						
*2	2	JPS322K	\$15.00	JCS322K	\$16.00	7/8
2	3	JPS323H	15.00	JCS323H	16.00	7/8
*3	3	JPS333F	15.00	JCS333F	16.00	7/8
3	4	JPS334H	16.00	JCS334H	17.00	7/8
*4	4	JPS344F	16.00	JCS344F	17.00	7/8
60 Amperes						
*2	2	JSP622K	19.50	JCS622K	28.00	1 3/8
2	3	JSP623H	19.50	JCS623H	28.00	1 3/8
*3	3	JSP633F	19.50	JCS633F	28.00	1 3/8
3	4	JSP634H	21.50	JCS634H	30.00	1 3/8
*4	4	JSP644F	21.50	JCS644F	30.00	1 3/8
100 Amperes						
*2	2	JPS1022K	31.00	JCS1022K	38.00	1 1/2
2	3	JPS1023H	31.00	JCS1023H	38.00	1 1/2
*3	3	JPS1033F	31.00	JCS1033F	38.00	1 1/2
3	4	JPS1034H	33.50	JCS1034H	40.50	1 1/2
*4	4	JPS1044F	33.50	JCS1044F	40.50	1 1/2
200 Amperes						
*2	2	JPS2022K	50.00	JCS2022K	77.50	2
2	3	JPS2023H	50.00	JCS2023H	77.50	2
*3	3	JPS2033F	50.00	JCS2033F	77.50	2
3	4	JPS2034H	54.00	JCS2034H	81.50	2
*4	4	JPS2044F	54.00	JCS2044F	81.50	2

*Have provision for equipment grounding through enclosure only; all others have equipment ground through separate pole.

#Cable bushing regularly furnished with hole size as listed. Other sizes available as per table below at no extra cost, if specified on order. Specify hole size required.

Ampere Rating of Plug or Connector

Hole Dia. Range, In.	30	60	100	200
%-1		5%-1 3/8	3/4-1 1/8	1-2 1/2

Housing — Cast aluminum alloy. Natural finish. Plugs also fit Type "J" Weathertight receptacles and connectors.

For Reverse Service add final suffix "R" to number.

*Can be furnished with Weathertight Flap Cover instead of Screw Cap. Specify when ordering.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value	0%
\$150.00 To \$499.99 List Value	5%
\$500.00 List Value	10%

R & S HEAVY DUTY TUMBLER SWITCHES

Division of Midland-Ross Corp.
TYPE EFS — FOR SURFACE MOUNTING
 Explosion-Proof and Dust-Tight
 Class I, Groups C and D



Single Gang



Double Gang

Rating— Amperes		Single Gang		Double Gang	
A.C. or D.C.	250V.	Cat. No.	List Each	Cat. No.	List Each
1-Pole Switches[^]					
10T	5	4411	\$10.25	4421	\$20.50
20T	20	4411S2	11.25	4421S2	22.50
30T	30	4411S3	12.25	4421S3	24.50
2-Pole Switches[^]					
10T	10	4412	11.25	4422	22.50
20T	20	*4412D2	11.50	*4422D2	23.00
30T	30	*4412D3	13.50	*4422D3	27.00
3-Way Switches[^]					
10T	5	4414	10.75	4424	21.50
20T	20	4414T2	11.50	4424T2	23.00
30T	30	4414T3	13.75	4424T3	27.50
4-Way Switches[^]					
10T	5	4415	16.50	4425	33.00
20T	10	4415F2	17.75	4425F2	35.50
3-Pole Switches[•]					
20	20	†4413	14.50	†4423	29.00
30	30	§4413T3	22.25	§4423T3	44.50
10	5	4416N4	POA	4426N4	POA
See Below		4416N5	POA	4426N5	POA

Ratings—[^]Switches rated 15 or 20 amp. 277 volts, A.C. and with other than listed ratings can be furnished. Prices on application.

[•]A.C. only

Additional ratings:

*2 Hp., 230V. A.C.; 250V. D.C.
 *1 Hp., 460V. A.C., 2 Hp., 115 or 230V. A.C., 250 or 600V. A.C.

†1½ Hp., 1-ph; 2 Hp., 3-ph, 115V. A.C.
 ‡2 Hp., 1- and 3-ph, 230-575V. A.C.
 §20 Amp., 600V. A.C., 2 Hp., 2- and 3-ph, 110-600V. A.C.

SIGNAL CIRCUITS 1, 2 & 3: 10A., 125V.; 5A., 250V. Maintained Contact. Signal circuit contacts (1, 2 and 3) have U.L. rating restricted to 10A., 50V. A.C., 12V. D.C. due to common terminal for signal and buzzer circuits and are so marked. In practice, however, this common terminal may be used for one leg of a 120 volt signal circuit and one leg of low voltage isolated buzzer circuit subject to approval of the local electrical authority.

BUZZER CIRCUIT 4: 1A., 50V. A.C.; 2A. 12V. D.C. Momentary Contact.

Enclosures—Cast iron, corrosion resisting baked enamel finish. Can be furnished with lock-type cover to permit locking in either "on" or "off" position. When so required, add suffix "L" to catalog number. POA. Can be furnished in three or four gang or tandem units and in combination with other R & S Type EFS devices.

Outlets—Unless otherwise specified, furnished with one ¼-inch outlet per gang, top or bottom. Additional or larger outlets charged extra. Maximum conduit 1-inch: single gang—top and bottom only, multiple gang—one per gang top and bottom and one each side. Specify size and location.

R & S PUSH BUTTON STATIONS

Division of Midland-Ross Corp.

TYPE EFS — FOR SURFACE MOUNTING

Explosion-Proof and Dust-Tight
 Class I, Groups C and D



No. 4220SS



No. 4220SSF

STANDARD DUTY

For Control Circuits of 600 Volts A.C. Maximum
 Enclosure Complete with Interior as Listed

*Standard Marking	Symbol	No. & Type of Buttons	Catalog No.	List Each
Start		One-N.O.	*4220ST	\$13.50
Stop		One-N.C.	*4220SP	13.50
Auto Off Hand		3-Pos. Selector Switch	*4220SW	18.00
Start Stop		One-N.O. One-N.C.	*4220SS	17.00
Forward Reverse		Two-N.O.	*4220FR	17.00
Stop Auto Off Hand		One-N.O. and N.C. 3-Pos. Selector Switch	*4220SA	22.00
Forward Reverse Stop		Two-N.O. One-N.C.	4220FRS	27.00
Start Stop Forward Reverse		Two-N.O. and N.C. One 3-Pos. Selector Switch	4220SSF	45.00

*Special markings must be specified if desired.

Interiors are interchangeable, regularly furnished as listed. Other interiors available, information on request.

Enclosures—Cast iron, corrosion resisting baked enamel finish. Covers are provided with hole to accommodate padlock for locking button, in depressed position.

*Items so marked can be furnished in two, three or four gang or tandem units and in combination with other R & S type EFS devices.

Outlets—Unless otherwise specified, furnished with one ¼-inch outlet in top. Additional or larger outlets charged extra. Maximum conduit 1-inch, top and bottom. Specify size and location.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S LIGHTING FIXTURES

Division of Midland-Ross Corp.

TYPE ELJ CEILING FIXTURES

**Explosion-Proof
Class I, Groups C and D**



Without Reflector

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
WITHOUT REFLECTOR			
With Guard			
†100/300	‡E20JG	\$37.00
*200/300	E30JG	49.50
•300/500	E50JG	71.00
Without Guard			
†100/300	‡E20J	35.50
*200/300	E30J	47.50
•300/500	E50J	67.00

STANDARD DOME REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/150	12¼	E15JDG	41.00
†100/300	14	E20JDG	41.75
*200/300	16½	E30JDG	55.25
•300/500	20½	E50JDG	80.50
Without Guard			
†100/150	12¼	E15JD	39.50
†100/300	14	E20JD	40.25
*200/300	16½	E30JD	53.25
•300/500	20½	E50JD	76.50



With Standard Dome Reflector

SHALLOW DOME REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/300	12½	E20JSG	41.25
*200/300	16	E30JSG	55.00
•300/500	20½	E50JSG	80.25
Without Guard			
†100/300	12½	E20JS	39.75
*200/300	16	E30JS	53.00
•300/500	20½	E50JS	76.25



With 30° Angle Reflector

30° ANGLE REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/300	10¼	E20JAG	42.00
*200/300	12⅝	E30JAG	56.00
•300/500	16	E50JAG	78.75
Without Guard			
†100/300	10¼	E20JA	40.50
*200/300	12⅝	E30JA	54.00
•300/500	16	E50JA	74.75

†Class I, Groups C and D for use with PS25-300W bulb.

‡Can be furnished with colored inner globe for 100 watt maximum lamp. Information and prices on request.

*Accommodates medium screw base lamp only.

•Accommodates 300/500 watt mogul screw base lamp.

Globes — Impact and explosion-resisting glass. Prismatic style globes are smooth outside to keep exterior of globe dust-free. Prisms on inside provide soft, even light with reduced glare and no loss of efficiency.

Outlets — Unless otherwise specified, furnished with ¼-inch tapped outlet on 100-500 watt fixtures. Maximum conduit: 100-500 watt ¼-inch. Specify size when ordering.

Conduit Base — Standardized base permits interchanging reflector globe assemblies of all sizes.

Housings — Cast aluminum alloy, natural finish.

Guards — Steel, cadmium plated finish. Can be furnished in cast aluminum alloy at extra cost.

Reflectors — Porcelain enameled steel; green outside, white inside.

TYPE ELP PENDENT FIXTURES

**Explosion-Proof
Class I, Groups C and D**



Without Reflector

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
WITHOUT REFLECTOR			
With Guard			
†100/300	‡E20PG	\$30.00
*200/300	E30PG	42.50
•300/500	E50PG	64.50
Without Guard			
†100/300	‡E20P	28.50
*200/300	E30P	40.50
•300/500	E50P	60.50

STANDARD DOME REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/150	12¼	E15PDG	34.00
†100/300	14	E20PDG	34.75
*200/300	16½	E30PDG	48.25
•300/500	20½	E50PDG	74.00
Without Guard			
†100/150	12¼	E15PD	32.50
†100/300	14	E20PD	33.25
*200/300	16½	E30PD	46.25
•300/500	20½	E50PD	70.00



With Standard Dome Reflector

SHALLOW DOME REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/300	12½	E20PSG	34.25
*200/300	16	E30PSG	48.00
•300/500	20½	E50PSG	73.75
Without Guard			
†100/300	12½	E20PS	32.75
*200/300	16	E30PS	46.00
•300/500	20½	E50PS	69.75



With 30° Angle Reflector

30° ANGLE REFLECTOR

Lamp Watts	Ref. Dia. In.	With Prismatic Globe Cat. No.	List Each
With Guard			
†100/300	10¼	E20PAG	35.00
*200/300	12⅝	E30PAG	49.00
•300/500	16	E50PAG	72.25
Without Guard			
†100/300	10¼	E20PA	33.50
*200/300	12⅝	E30PA	47.00
•300/500	16	E50PA	68.25

†Class I, Groups C and D for use with PS25-300W bulb.

‡Can be furnished with colored inner globe for 100 watt maximum lamp. Information and prices on request.

*Accommodates medium screw base lamp only.

•Accommodates 300/500 watt mogul screw base lamp.

Globes — Impact and explosion-resisting glass. Prismatic style globes are smooth outside to keep exterior of globe dust-free. Prisms on inside provide soft, even light with reduced glare and no loss of efficiency.

Outlets — Unless otherwise specified, furnished with ¼-inch tapped outlet on 100-500 watt fixtures. Maximum conduit: 100-500 watt ¼-inch. Specify size when ordering.

Conduit Base — Standardized base permits interchanging reflector globe assemblies of all sizes.

Housings — Cast aluminum alloy, neutral finish.

Guards — Steel, cadmium plated finish. Can be furnished in cast aluminum alloy at extra cost.

Reflectors — Porcelain enameled steel; green outside, white inside.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S LIGHTING FIXTURES

Division of Midland-Ross Corp.

Vaportight — With Screw Globe
Enclosed and Gasketed Type

TYPE VLJ JUNCTION BOX FIXTURES



No. 5045

Regularly furnished with cast iron junction boxes: No. 333 for medium base and No. 2401 for mogul base fixtures. Can be furnished with cast brass boxes: No. 332 for medium base fixtures, No. 2403 for mogul base fixtures at additional cost, if specified on order.

Finish — Cast iron, corrosion resisting baked enamel finish. Cast brass, natural finish. Cast aluminum, corrosion-resistant copper-free alloy, aluminum finish.

Max. Lamp Size Watts	Lamp Base	—With Guard—		—Without Guard—	
		Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy					
†100	Med.	▲6321A	\$ 8.00	▲5066A	\$ 5.50
†200/300	Med.	6334A	9.75	5067A	6.75
300/500	Mog.	6162A	35.75	6161A	27.75
Cast Brass					
†100	Med.	▲5045	11.00	▲5051	7.75
†200/300	Med.	5047	19.00	5052	12.50
300/500	Mog.	6152	54.25	6151	44.25
Cast Iron					
†200/300	Med.	6334	POA	5067	POA
300/500	Mog.	6162	POA	6161	POA

Outlets — Unless otherwise specified, furnished with two ¼-inch outlets straight through, one outlet plugged. Additional or larger outlets charged extra. Maximum conduit: Medium base fixtures ¼-inch, mogul base 1-inch, four way. Specify size and location. Deep boxes to permit larger outlets can be furnished at slight additional cost. Note — Aluminum Fixtures are threaded to accommodate reflectors and/or guards. For Brass and Iron Fixtures to accommodate reflectors, specify requirements.

TYPE VL CEILING FIXTURES

Outlets — Unless otherwise specified, furnished with one ¾-inch outlet. Additional outlets charged extra. Maximum conduit ¾-inch, four way. Specify size and location.

Finish — Cast brass, natural finish. Cast aluminum, corrosion-resistant copper-free alloy, aluminum finish.



No. 4942

Max. Lamp Size Watts	Lamp Base	—With Guard—		—Without Guard—	
		Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy					
† 60	Med.	▲4930A	\$ 9.25	▲4929A	\$ 6.75
†100	Med.	▲4940A	9.40	▲4939A	6.90
Cast Brass					
† 60	Med.	▲4932	11.25	▲4934	8.00
†100	Med.	▲4942	11.40	▲4944	8.15

†Lampholders — Can be furnished with shock and vibration proof lampholder No. 116 at additional cost. When so required suffix "SV" to catalog number

▲Switch — Can be furnished with externally operated switch at additional cost—suffix "SW" to catalog number.

Globes — Clear globes regularly furnished. Heat resisting and colored globes available. Prices on request.

Guards — Cast aluminum alloy with aluminum and iron fixtures. Cast brass with brass fixtures. If specified on order, iron fixtures will be furnished with cast brass guards at difference in list price of guards additional.

Vaportight — With Screw Globe
Enclosed and Gasketed Type

TYPE VLP PENDENT FIXTURES



Pendent Style
No. 5000



Outlet Box Style
No. 5093

Max. Lamp Size Watts	Lamp Base	—With Guard—		—Without Guard—	
		Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy					
†100	Med.	▲6345A	\$ 6.75	▲6344A	\$ 4.25
†200/300	Med.	6324A	8.75	6346A	5.75
300/500	Mog.	6142A	35.00	6141A	27.00
Cast Brass					
†100	Med.	▲5000	10.00	▲5003	6.75
†200/300	Med.	5001	18.50	5004	12.00
300/500	Mog.	6132	53.50	6131	43.50
Cast Iron					
†200/300	Med.	6324	POA	6346	POA
300/500	Mog.	6142	POA	6141	POA

Outlets — Unless otherwise specified, furnished tapped for maximum conduit: 100–300 watt, ¼-inch; 500 watt, 1-inch. Smaller sizes available if specified on order.

TYPE VL OUTLET BOX FIXTURES

For mounting to 4-inch octagon steel outlet boxes.

Max. Lamp Size Watts	Lamp Base	—With Guard—		—Without Guard—	
		Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy					
†100	Med.	▲6333A	\$ 7.25	▲5132A	\$ 4.75
†200/300	Med.	6336A	8.25	5135A	5.25
300/500	Mog.	6169A	34.25	6160A	26.25
Cast Brass					
†100	Med.	▲5093	10.25	▲5192	7.00
†200/300	Med.	5094	18.25	5193	11.75
300/500	Mog.	6159	52.75	6150	43.00
Cast Iron					
†200/300	Med.	6336	POA	5135	POA
300/500	Mog.	6169	POA	6160	POA

†Lampholders — Can be furnished with shock and vibration proof lampholder No. 116 at additional cost. When so required suffix "SV" to catalog number.

▲Switch — Can be furnished with externally operated switch at additional cost—suffix "SW" to catalog number.

Globes — Clear globes regularly furnished. Heat resisting and colored globes are available. Prices on request.

Guards — Cast aluminum alloy with aluminum and iron fixtures. Cast brass with brass fixtures. If specified on order, iron fixtures will be furnished with cast brass guards at difference in list price of guards additional.

Finish — Cast iron, corrosion resisting baked enamel finish. Cast brass, natural finish. Cast aluminum, corrosion-resistant copper free alloy, aluminum finish.

Note — Aluminum fixtures are threaded to accommodate reflectors and/or guards. For Brass and Iron Fixtures to accommodate reflectors, specify requirements.

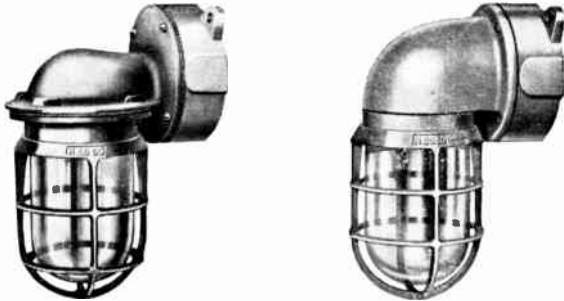
DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

R & S LIGHTING FIXTURES

Division of Midland-Ross Corp.

Vaportight — With Screw Globe
Enclosed and Gasketed Type
TYPE VLB BRACKET FIXTURES



No. 6255

No. 4984

With No. 333 Cast Iron Junction Box*

No. 6255 Style

Max. Lamp Watts	Lamp Size	Base	With Guard		Without Guard	
			Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy						
† 60	Med.		▲6253A	\$11.50	▲5152A	\$ 9.00
†100	Med.		▲ 449A	11.75	▲5148A	9.25
†200/300	Med.		6254A	15.00	5153A	12.00
300/500	Mog.		6183A	43.00	6182A	35.00
Cast Brass						
† 60	Med.		▲6250	16.85	▲5149	13.60
†100	Med.		▲6255	17.00	▲5154	13.75
†200/300	Med.		1426	26.50	5125	20.00
300/500	Mog.		6193	62.00	6192	52.00
Cast Iron						
†* 60	Med.		▲6253	POA	▲5152	POA
†*100	Med.		▲ 449	POA	▲5148	POA
† 200/300	Med.		6254	POA	5153	POA

With No. 333 Cast Iron Junction Box*

No. 4984 Style

Max. Lamp Watts	Lamp Size	Base	With Guard		Without Guard	
			Cat. No.	List Each	Cat. No.	List Each
Cast Aluminum Alloy						
† 60	Med.		.....	.....	▲4908A	9.75
†100	Med.		.....	.....	▲4918A	10.00
Cast Brass						
† 60	Med.		▲4924	17.10	▲4923	13.85
†100	Med.		▲4984	17.25	▲4983	14.00
Cast Iron						
†* 60	Med.		▲4909	POA	▲4908	POA
†*100	Med.		▲4919	POA	▲4918	POA

*Can be furnished with cast brass junction box at additional cost, if specified on order.

†Lampholders — Can be furnished with shock and vibration proof lampholder No. 116 at additional cost. When so required suffix "SV" to catalog number.

▲Switch—Can be furnished with externally operated switch at additional cost—suffix "SW" to catalog number.

*Regularly furnished with cast aluminum alloy globe holder.

Globes—Clear globes regularly furnished. Heat resisting and colored globes available. Prices on request.

Guards—Cast aluminum alloy with aluminum and iron fixtures. Cast brass with brass fixtures. If specified on order, iron fixtures will be furnished with cast brass guards at difference in list price of guards additional.

Finish—Cast iron, corrosion resisting baked enamel finish. Cast brass, natural finish. Cast aluminum, corrosion resistant copper free alloy; aluminum finish.

Outlets—Unless otherwise specified, furnished with two 3/4-inch outlets straight through, one outlet plugged. Additional or larger outlets charged extra. Maximum conduit; medium base fixtures 3/4-inch, mogul base 1 1/2-inch, four way. Specify size and location. Deep boxes to permit larger outlets can be furnished at slight additional cost.

DISCOUNT SCHEDULES

Less Than \$150.00 List Value.....	0%
\$150.00 To \$499.99 List Value.....	5%
\$500.00 List Value.....	10%

REPLACEMENT REFLECTORS
For Screw Globe Lighting Fixtures
Porcelain Enamelled Steel, Green Outside and White Inside



STANDARD DOME REFLECTORS

Complete With Threaded Rings
For screw-on mounting to threaded fixture bases.

Fixture Watts	Reflec. Dia. In.	For Alum. and Iron Fixtures		List Each
		Cat. No.	For Brass Fixtures Cat. No.	
100	12 3/8	2900	2900	\$4.75
200/300	14 1/8	2914	2914B	5.50
200/300	16 3/8	2913	2913B	6.50
300/500	18 3/8	2903	2903B	8.75

SHALLOW DOME REFLECTORS
Complete With Threaded Rings
For screw-on mounting to threaded fixture bases.



Fixture Watts	Reflec. Dia. In.	For Alum. and Iron Fixtures		List Each
		Cat. No.	For Brass Fixtures Cat. No.	
100	12 3/8	2950S	2950S	\$3.75
200/300	13 3/8	2954S	2954SB	4.75
200/300	16 3/8	2952S	2952SB	5.50
300/500	20 1/2	2953S	2953SB	7.25



30° ANGLE REFLECTORS

Complete With Threaded Rings

For screw-on mounting to threaded fixture bases.

Fixture Watts	Reflec. Dia. In.	For Alum. and Iron Fixtures		List Each
		Cat. No.	For Brass Fixtures Cat. No.	
100	10 7/8	2965	2965	\$3.50
200/300	12 3/8	2966	2966B	6.00
300/500	13 1/2	2956	2956B	10.00

Note: Reflectors are regularly furnished complete with threaded mounting rings. Where replacement reflectors are required for mounting directly to the fixture lugs with screws, specify reflectors less mounting rings.

REPLACEMENT GASKETS

For Screw Globe Lighting Fixtures and Junction Boxes



Cat. No.	Description	Outside Dia., In.	List Each
679	For 3-In. Junction Box with 4 screw holes.....	3 3/8	\$0.30
680	For 4-In. Junction Box with 4 screw holes.....	4 1/2	.35
*681	For 60-100 Watt Screw Globe Fixtures.....	3 1/4	.35
*681SV	For 60-200/300 Watt Screw Globe Fixtures with No. 116 Lampholder.....	3 1/4	.35
682	For 200/300 Watt Screw Globe Fixtures.....	4 7/8	.40
721	For 300/500 Watt Screw Globe Fixtures.....	6	.60
722	For Lampholders Nos. 117, 118 or 4100.....	2 3/4	.30

Standard package, 50.

*Combination gaskets: No. 681 accommodates No. 117, 118 or 4100 lampholder and screw globe. No. 681SV accommodates screw globe and/or No. 116 lampholder. 200/300 watt fixtures require separate globe and lampholder gaskets.

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS
OBROUND SERIES**

Obrounds of the same size take the same covers and wiring devices.

Threaded for Rigid Conduit (Thick Wall)

Type A



Cat. No.	List Each	Size
A17	\$0.70	1/2
A27	.80	3/4
A37	1.10	1

Type C



Cat. No.	List Each	Size
C17	\$0.80	1/2
C27	.95	3/4
C37	1.45	1
C47	2.30	1 1/4
C57	3.00	1 1/2
C67	5.00	2
C77	10.50	2 1/2
C87	14.00	3
C97	23.00	3 1/2
C107	26.00	4

Type LB



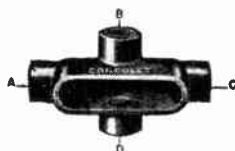
Cat. No.	List Each	Size
LB17	\$0.80	1/2
LB27	.95	3/4
LB37	1.45	1
LB47	2.30	1 1/4
LB57	3.00	1 1/2
LB67	5.00	2
LB777	10.50	2 1/2
LB87	14.00	3
LB97	23.00	3 1/2
LB107	26.00	4

Type LL



Cat. No.	List Each	Size
LL17	\$0.80	1/2
LL27	.95	3/4
LL37	1.45	1
LL47	2.30	1 1/4
LL57	3.00	1 1/2
LL67	5.00	2
LL777	10.50	2 1/2
LL87	14.00	3
LL97	23.00	3 1/2
LL107	26.00	4

Type X‡



Cat. No.	List Each	Size A-B-C-D
X17	\$1.30	1/2-1/2-1/2-1/2
X27	1.30	3/4-3/4-3/4-3/4
X37	2.20	1-1-1-1
X47	3.10	1 1/4-1 1/4-1 1/4-1 1/4
X57	4.00	1 1/2-1 1/2-1 1/2-1 1/2
X67	7.00	2-2-2-2

‡The size of the cover or wiring device is the same as size of hubs at ends of cover opening.

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS
OBROUND SERIES**

Threaded for Rigid Conduit (Thick Wall)

Type L†



Cat. No.	List Each	Size
L17	\$0.90	1/2
L27	1.10	3/4
L37	1.50	1
L47	3.20	1 1/4
L57	4.40	1 1/2
L67	6.30	2

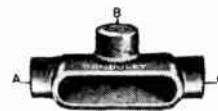
Type TA



Cat. No.	List Each
TA17	\$1.40
TA27	1.80
TA37	2.40
TA47	3.40
TA57	4.60
TA67	8.00

†Type L has two openings, with one blank sheet steel cover. Can be used for either an LL or LR.

Type T‡



Cat. No.	List Each	Size A-B-C
T17	\$1.00	1/2-1/2-1/2
T27	1.30	3/4-1/2-3/4
T37	1.20	3/4-3/4-3/4
T317	1.90	1-1/2-1
T327	1.90	1-3/4-1
T37	1.80	1-1-1
T47	2.70	1 1/4-1 1/4-1 1/4
T57	3.60	1 1/2-1 1/2-1 1/2
T67	5.60	2-2-2
T77	11.00	2 1/2-2 1/2-2 1/2
T87	16.00	3-3-3
T97	25.00	3 1/2-3 1/2-3 1/2
T107	28.00	4-4-4

Type TB‡



Cat. No.	List Each
TB17	\$1.10
TB27	1.30
TB37	1.90
TB47	2.90
TB57	3.80
TB67	6.00

‡The size of the cover or wiring device is the same as size of hubs at ends of cover openings.

GASKETS

Solid Type

For use with blank sheet steel and cast Fer alloy covers.



Size In.	Catalog Numbers		List Each
	Neoprene Rubber	Vellum	
1/2	Gask 571	Gask 771	\$0.20
3/4	Gask 572	Gask 772	.20
1	Gask 573	Gask 773	.30
1 1/4	Gask 574	Gask 774	.40
1 1/2	Gask 575	Gask 775	.40
2	Gask 576	Gask 776	.50
2 1/2 or 3	Gask 578	Gask 778	.80
3 1/2 or 4	Gask 579	Gask 779	1.00

GASKETS

Open Type

For use with blank composition covers, wire-hole covers, and wiring devices.



Size In.	Neoprene Rubber		List Each
	Cat. No.	List Each	
1/2	Gask 471	\$0.20	
3/4	Gask 472	.20	
1	Gask 473	.30	
1 1/4	Gask 474	.40	
1 1/2	Gask 475	.40	
2	Gask 476	.50	
2 1/2 or 3	Gask 478	.80	
3 1/2 or 4	Gask 479	1.00	

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 5%—\$300 and OVER, 21%

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS
TYPE LBD ELBOWS**

For use when it is necessary to make a 90° bend in the conduit system. Arrangement of cover opening allows conductors to be pulled straight through either hub. Furnished with blank cast Feraloy cover.

Size In.	Cat. No.	List Each
1/2	LBD1100	\$1.80
3/4	LBD2200	2.40
1	LBD3300	2.70
1 1/4	LBD4400	5.50
1 1/2	LBD5500	10.50
2	LBD6600	11.00
2 1/2	LBD7700	32.50
3	LBD8800	32.50
3 1/2	LBD9900	60.00
4	LBD10900	60.00
5	LBD012	110.00
6	LBD014	220.00

DISCOUNTS: UNDER \$100, 0
\$100-299.99, 10%—\$300 and OVER, 26%

COVERS FOR OBROUND SERIES

**Knockout Covers*
Composition**

Size	Dia. Knockouts	1, 2 or 3-Wire Cat. No.	List Each
1/2	1—7/8	1773	\$0.30
3/4	2—1 1/8	2773	.40
	3—1 1/8		
	3—1/2		
1	3—1/2	3773	.60

2, 3, 4 or 5-Wire

1 1/4	5—1 1/8	4775	\$0.80
1 1/2	5—1 1/8	5775	.80
2	2—1 1/8	6775	1.20
	3—1/8		

4-Wire†

Size	Dia. Holes	Cat. No.	List Each
1/2	5/8	1774	\$0.45
3/4	5/8	2774	.60
1	3/4	3774	.90

*For special drilling use blank composition covers.
†Use knockout covers for sizes not shown.

Sheet Steel Covers with Cord Clamps

Provided with cord clamp and bushed hole which safeguards the drop cord. Takes cord 1/4 to 3/8-inch diameter.

Size In.	Cat. No.	List Each
1/2	1972	\$0.80
3/4	2972	.90

Blank Covers

Special drilling at additional charge: Up to 1" diam., \$0.30 per hole; 1" and larger, \$0.50 per hole.



Size	Sheet Steel		Cast Feraloy		Composition	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
1/2	170	\$0.20	170f	\$0.35	1770	\$0.30
3/4	270	.25	270f	.45	2770	.40
1	370	.40	370f	.70	3770	.60
1 1/4	470	.50	470f	1.00	4770	1.00
1 1/2	570	.50	570f	1.00	5770	1.00
2	670	.85	670f	1.40	6770	1.20
2 1/2 or 3	870	1.30	870f	1.70	8770	3.20
3 1/2 or 4	970	1.60	970f	2.50	9770	5.00

DISCOUNTS: UNDER \$100, 0
\$100-299.99, 5%—\$300 and OVER, 21%

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS
WIRING DEVICES FOR OBROUND SERIES**

2-Pole Attachment Plug Receptacles



Size In.	Cat. No.	List Each	Porcelain Cat. No.	List Each
1/2	1705	\$1.35

Composition



Size In.	Cat. No.	List Each	.....	.....
1/2	1748	\$1.35	.....	.....
3/4	2748	1.55	.....	.....

Composition



Size In.	Cat. No.	List Each	.....	.....
1/2	1725	\$1.80	.....	.....
3/4	2725	2.00	.....	.....

Composition

2-Pole Polarity Plug Receptacles

Size In.	Cat. No.	List Each	.....	.....
1/2	*1728	\$1.20	.....	.....
3/4	*2728	1.40	.....	.....



*Takes Hubbell No. 5567 polarized plug.

Prices for receptacles listed above do not include attachment plugs.

If specified on the order, lamp receptacle with lamp grip will be furnished at an advance in price of 20 cents.

Attachment Plug Receptacles

2-Wire, 3-Pole

Size In.	Cat. No.	List Each	.....	.....
1/2	1784	\$2.65	.....	.....
3/4	2784	2.85	.....	.....
1	3784	3.25	.....	.....



Composition

Tandem Slots

Size In.	Cat. No.	List Each	.....	.....
1/2	1788	\$2.65	.....	.....
3/4	2788	2.85	.....	.....



Composition, With Groove

2-Wire, 3-Pole

Size In.	Cat. No.	List Each	.....	.....
1/2	1729	\$1.85
3/4	2729	2.00

Lamp Receptacles

Size In.	Cat. No.	List Each	.....	.....
1/2	1726	\$1.00	1706	\$1.00
3/4	2726	1.10	2706	1.10



Composition

Cord Rosettes

Size In.	Cat. No.	List Each	.....	.....
1/2	1720	\$1.90	.....	.....
3/4	2720	2.10	.....	.....

Prices for receptacles listed above do not include attachment plugs.

If specified on the order, lamp receptacle with lamp grip will be furnished at an advance in price of 20 cents.

CAST FERALOY COVERS WITH NIPPLES

Female



Size Nipple	Size Cover	Cat. No.	List Each
1/2	1/2	1734	\$0.70
1/2	3/4	2734	.80

ADAPTERS FOR OBROUND SERIES

Adapters to take 1/2" Obround Wiring Devices.



Size In.	Cat. No.	List Each
1	731	\$0.70

DISCOUNTS: UNDER \$100, 0
\$100-299.99, 5%—\$300 and OVER, 21%

**CROUSE-HINDS DIE-CAST CONDULET®
CONDUIT FITTINGS
MARK 9 SERIES**



Type C

Size	Threaded for Rigid Conduit (Thick Wall)		Threadless for EMT (Thin Wall)	
	Cat. No.	List Each	Cat. No.	List Each
1/2	C19	\$.80	C19-MT	\$.80
3/4	C29	1.00	C29-MT	1.00
1	C39	1.50	C39-MT	1.50
1 1/4	C49	.....	.....	.....
1 1/2	C59	.....	.....	.....
2	C69	.....	.....	.....



Type E

Size	Cat. No.	List Each	.....	.....
1/2	E19	\$.70	.....	.....
3/4	E29	.80	.....	.....
1	E39	1.10	.....	.....



Type LB

Size	Cat. No.	List Each	Cat. No.	List Each
1/2	LB19	\$.80	LB19-MT	\$.80
3/4	LB29	1.00	LB29-MT	1.00
1	LB39	1.50	LB39-MT	1.50
1 1/4	LB49	2.30	LB49-MT	2.30
1 1/2	LB59	3.00	LB59-MT	3.00
2	LB69	5.00	LB69-MT	5.00
2 1/2	LB789	10.40	.....	.....
3	LB889	13.80	.....	.....
3 1/2	LB989	22.70	.....	.....
4	LB1089	25.70	.....	.....



Type LL

Size	Cat. No.	List Each	Cat. No.	List Each
1/2	LL19	\$.80	LL19-MT	\$.80
3/4	LL29	1.00	LL29-MT	1.00
1	LL39	1.50	.....	.....
1 1/4	LL49	2.30	.....	.....
1 1/2	LL59	3.00	.....	.....
2	LL69	5.00	.....	.....
2 1/2	LL789	9.40	.....	.....
3	LL889	12.50	.....	.....
3 1/2	LL989	20.60	.....	.....
4	LL1089	23.30	.....	.....



Type LR

Size	Cat. No.	List Each	Cat. No.	List Each
1/2	LR19	\$.80	LR19-MT	\$.80
3/4	LR29	1.00	LR29-MT	1.00
1	LR39	1.50	.....	.....
1 1/4	LR49	2.30	.....	.....
1 1/2	LR59	3.00	.....	.....
2	LR69	5.00	.....	.....
2 1/2	LR789	9.40	.....	.....
3	LR889	12.50	.....	.....
3 1/2	LR989	20.60	.....	.....
4	LR1089	23.30	.....	.....



Type X

Size	Cat. No.	List Each	Cat. No.	List Each
1/2	X19	\$1.15	X19-MT	\$1.30
3/4	X29	1.60	X29-MT	1.60
1	X39	2.20	X39-MT	2.20

**CROUSE-HINDS DIE-CAST CONDULET®
CONDUIT FITTINGS**



Type T

Size	Threaded for Rigid Conduit (Thick Wall)		Threadless for EMT (Thin Wall)	
	Cat. No.	List Each	Cat. No.	List Each
1/2	T19	\$1.00	T19-MT	\$1.00
3/4	T29	1.30	T29-MT	1.30
1	T39	1.80	.....	.....
1 1/4	T49	2.80	.....	.....
1 1/2	T59	3.80	.....	.....
2	T69	5.90	.....	.....
2 1/2	T789	11.00	.....	.....
3	T889	16.00	.....	.....
3 1/2	T989	29.00	.....	.....
4	T1089	32.00	.....	.....

**TYPE SLB DIE-CAST SERVICE
ENTRANCE ELBOWS**

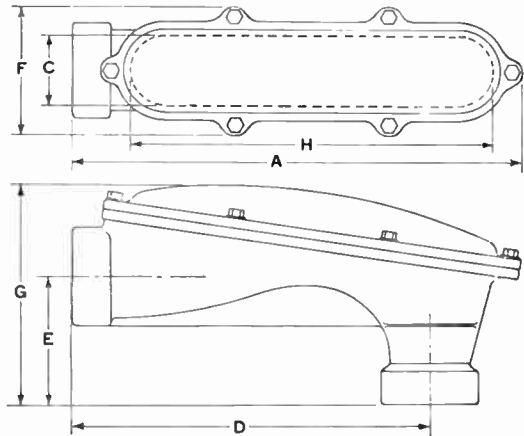


Size	Cat. No.	List Each
1/2	SLB1	\$.70
3/4	SLB2	.90
1	SLB3	1.40
1 1/4	SLB4	1.90
1 1/2	SLB5	4.40
2	SLB6	7.00

**TYPE LBD ELBOWS
Furnished with Gaskets**



Size	Cat. No.	List Each
2 1/2	LBD7700	\$32.50
3	LBD8800	32.50
3 1/2	LBD9900	60.00
4	LBD10900	60.00



Size	A	C	D	E	F	G	H
2 1/2	19 1/8	3	15 5/8	5 1/2	5 5/8	9 1/8	15 3/4
3	19 1/8	3	15 5/8	5 1/2	5 5/8	9 1/8	15 3/4
3 1/2	27 1/8	4	23 1/8	6 1/8	7 1/8	11 7/8	24
4	27 1/8	4	23 1/8	6 1/8	7 1/8	11 7/8	24

NEOPRENE GASKETS FOR MARK 9 SERIES



For open type gasket tear out slit center piece.

Size	Cat. No.	List Each	Size	Cat. No.	List Each
1/2	Gask1941	\$.30	1 1/2	Gask1945	\$.50
3/4	Gask1942	.30	2	Gask1946	.60
1	Gask1943	.40	2 1/2-3	.....	.....
1 1/4	Gask1944	.50	3 1/2-4	.....	.....

Neoprene Open

Size	Cat. No.	List Each	Size	Cat. No.	List Each
2 1/2 or 3	Gask 808N	.80	3 1/2 or 4	Gask 809N	1.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS DIE-CAST CONDULET®
CONDUIT FITTINGS**

BLANK COVERS FOR MARK 9 SERIES



Sheet Aluminum

Size	Cat. No.	List Each	Size	Cat. No.	List Each
1/2	190	\$.20	1 1/2	590	\$.50
3/4	290	.30	2	690	.90
1	390	.40	2 1/2-3	889	1.40
1 1/4	490	.50	3 1/2-4	989	1.80

WIRING DEVICES FOR MARK 9 SERIES

Lamp Receptacles — With Shade Holder Groove
660-Watt, 600-Volt



Composition			Porcelain		
Cat. No.	List Each	Size	Cat. No.	List Each	Size
1926	\$1.10	1/2	1906	\$1.10	1/2
2926	1.30	3/4	2906	1.30	3/4

Cord Rosettes — With Cord Clamp And Removable Cap
660-Watt, 250-Volt



Size	Cat. No.	List Each
1/2	1920	\$2.10
3/4	2920	2.40

KNOCKOUT COVERS — COMPOSITION

1, 2, 3-Wire



Size	Dia. Knockouts	Cat. No.	List Each
1/2	{ 1 1/8 2 5/16 3 1/8	1973	\$.40
3/4		2973	.50

FEMALE NIPPLE COVERS



Size Nipple	Size Cover	Cat. No.	List Each
1/2	1 1/2	1934	\$.80
	3/4	2934	.90

**CROUSE-HINDS DIE-CAST CONDULET®
CONDUIT FITTINGS**

WIRING DEVICES FOR MARK 9 SERIES

2-Wire, 3-Pole Grounding Type Duplex Attachment Plug Receptacles



Size	Cat. No.	List Each
1/2	1984	\$3.00
3/4	2984	3.20



Size	Cat. No.	List Each
1/2	1988	\$3.00
3/4	2988	3.20



Size	Cat. No.	List Each
1/2	1987	\$3.70
3/4	2987	3.90

Plug Receptacles
Rating: 15-A., 125-V.



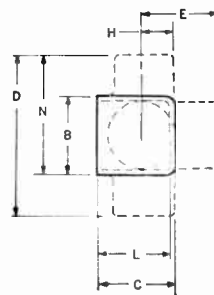
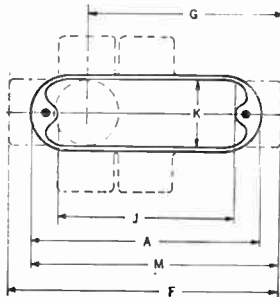
Size	Composition Cat. No.	List Each
1/2	1925	\$2.00
3/4	2925	2.20
1/2	1948	1.50
3/4	2948	1.70
1/2	1928	1.40
3/4	2928	1.60



Size	Porcelain Cat. No.	List Each
1/2	1905	\$1.50

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

DIMENSIONS FOR MARK 9 SERIES DIE CAST CONDULET CONDUIT FITTINGS



Size	A	B	C	D	All Types Except "X"				J	K	L	M	N	
					E	F	G	H						
1/2"	4 3/8	1 3/8	1 3/8		1 1/8	5	3 5/8	1 1/8	3 1/8	1 3/8	1 3/2	4 1/2	2 1/8	
3/4"	4 1/8	1 1/8	1 5/8		1 1/2	5 1/8	4 1/8	1 1/8	3 1/8	1 3/8	1 3/2	5 1/4	2 3/8	
1"	5 1/8	1 3/4	1 7/8		1 3/4	6 1/8	4 3/4	1 3/8	4 1/2	1 1/2	1 3/4	6 3/8	2 1/2	
1 1/4"	6 1/8	2 1/8	2 1/2		2 1/8	7 1/2	5 3/8	1 3/2	5 1/8	1 1/8	2 3/8	7 3/2	3 3/2	
1 1/2"	7 1/4	2 1/2	2 3/4		2 3/2	8 1/4	6	1 3/2	6	2 1/4	2 5/8	7 3/4	3 1/8	
2"	9 1/8	3 3/8	3 1/8		2 1/2	10 1/2	7 7/8	1 1/8	8 1/8	2 7/8	3 3/2	10 3/2	4 1/8	
Type "LB" Only														
2 1/2"	12 1/4	4 1/2	4		3 1/4		11 5/8	1 3/4	10 1/2	4 1/8	3 1/8	13 1/8		
3"	12 1/4	4 1/2	4 7/8		3 5/8		10 1/8	2 1/8	10 1/2	4 1/8	4 1/8	13 1/8		
3 1/2"	15	5 1/2	5 1/2		4		13 1/2	2 3/8	13 1/8	5	5 1/4	15 7/8		
4"	15	5 1/2	5 5/8		4 1/4		13 1/4	2 5/8	13 7/8	5	5 5/8	15 7/8		
Type "X"														
1/2"	4 3/8	1 3/8	1 3/4	2 3/8			5 1/8	5/8	3 5/8	1	1 5/8			
3/4"	4 1/8	1 1/8	2	3 1/8			6 3/2	3/4	3 1/8	1 3/8	1 7/8			
1"	5 1/2	1 3/4	2 1/4	3 1/2			7 1/8	7/8	4 1/8	1 5/8	2 1/8			

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

FS AND FD SERIES

Take covers and accessories, or plug receptacle housings.

Overall dimensions, exclusive of hubs: FS—Length, 4⁵/₈”; width, 2³/₄”; depth, 1¹/₈”. FD—Length, 4⁵/₈”; width, 2³/₄”; depth, 2¹/₈”.

FS Series can be furnished with flat face (4¹/₂x2¹/₈x2¹/₈ inches) to take standard wall plates at the same list prices; add suffix S24 to catalog number.

FS Series take devices 1⁵/₈” deep or less.

FD Series take devices 2³/₈” deep or less.

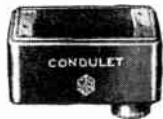
Threaded for Rigid Conduit (Thick Wall)

Type FS or FD



Cat. No.	List Each	Size
FS1	\$1.45	1/2
FS2	1.55	3/4
FS3	1.70	1
FD1*	1.75	1/2
FD2*	1.85	3/4
FD3	2.00	1

Type FSA or FDA



Cat. No.	List Each
FSA1	\$1.45
FSA2	1.55
.....
FDA1	1.75
FDA2	1.85
.....

Type FSC or FDC



Cat. No.	List Each	Size
FSC1	\$1.65	1/2
FSC2	1.80	3/4
FSC3	2.20	1
FDC1*	1.95	1/2
FDC2*	2.10	3/4
FDC3	2.50	1

Type FSL or FDL



Cat. No.	List Each
FSL1	\$1.65
FSL2	1.80
.....
FDL1	1.95
FDL2	2.10
.....

Type FSCA or FDCA



FSCA1	\$2.00	1/2
.....	.....	3/4
FSCA2	2.50	3/4

Type FSCC or FDCC



FSCC1	\$2.00
FSCC2	2.65
FDCC1	2.30

Type FSR or FDR



FSR1	\$1.65	1/2
FSR2	1.80	3/4
FDR1	1.95	1/2
FDR2	2.10	3/4

Type FSLA or FDLA



FSLA1	\$1.70
FSLA2	1.90
FDLA1	2.00
FDLA2	2.20

*Add suffix "SA" for copper-free Aluminum

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

FS AND FD SERIES

FS Series take devices 1⁵/₈” deep or less.

FD Series take devices 2³/₈” deep or less.

Threaded for Rigid Conduit (Thick Wall)

Type FSCT or FDCT



Cat. No.	List Each	Size
FSCT1	\$2.00	1/2
FSCT2	2.50	3/4
FSCT3	2.90	1
FDCT1	2.30	1/2
FDCT2	2.80	3/4
FDCT3	3.20	1

Type FST or FDT



Cat. No.	List Each
FST1	\$2.00
FST2	2.50
.....
FDT1	2.30
FDT2	2.80
FDT3	3.20

Type FSS or FDD



FSS1	\$1.65	1/2
FSS2	1.80	3/4
FSS3	2.20	1
FDD1*	1.95	1/2
FDD2*	2.10	3/4
FDD3	2.50	1

Type FSX or FDX



FSX1	\$2.40	1/2
FSX2	3.00	3/4
FDX1	2.70	1/2
FDX2	3.30	3/4
FDX3	3.70	1

Type FSCD



FSCD1	\$2.40
FSCD2	3.00
.....
.....
.....

Type FS Double Face



Cat. No.	List Each	Size
FS152	\$2.30	1/2
FS252	2.50	3/4

Type FSC Double Face



Cat. No.	List Each
FSC152	\$2.50
FSC252	2.90

**FS Series with Mounting Lugs
Threaded for Rigid Conduit (Thick Wall)**

Type FS



Cat. No.	List Each	Size
FS1019	\$1.60	1/2
FS2019	1.80	3/4

Type FSC



Cat. No.	List Each
FSC1019	\$1.80
FSC2019	2.10

**Type ExF Extension, Single Gang
For FS and FD Series**



Depth of Extension	Cat. No.	List Each
1	ExF11	\$1.00
2 1/2	ExF21	3.50

*Add suffix "SA" for copper-free Aluminum

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%


CROUSE-HINDS CONDULET®

CONDUIT FITTINGS


COVERS FOR FS AND FD SERIES


For FS and FD Series, Single-Gang and FS Series 2-Gang Tandem and Type ExF Extensions

For Double Push Button, Double Push Button Momentary Contact, and Double Push Lock Switches


Cat. No.	List Each	Style
 DS8	\$0.49	Surface


For G-E. Arrow-H&H, Bryant, and Hubbell Tumbler Flush Switches with Square Handles


Cat. No.	List Each	Style
 DS32*	\$0.32	Surface
DSS32	.30	Flush

Cat. No.	List Each	Style
 DS32g	\$0.74	Surface
DS32g	.74	Flush

For Round Flush Receptacles

Cat. No.	List Each	Style
 DS10	\$1.29	Surface


Cat. No.	List Each	Style
 DS1020g	\$2.54	Surface
DS1020g	2.54	Flush

Cat. No.	List Each	Style
 DS21*	\$0.32	Surface
DSS21	.30	Flush




Plain Housing		Threaded Cap Housing	
Cat. No.	List Each	Cat. No.	List Each
DS149	\$1.04	DS136*	\$3.04
DS150	1.04		

For Standard Duplex Flush Receptacles

Cat. No.	List Each	Style
 DS23*	\$0.32	Surface
DSS23	.30	Flush

For Duplex Convenience Receptacles

Cat. No.	List Each	Style
 DS70g	\$2.34	Surface

For Pilot Lamp Flush Receptacles

Jewel	Cat. No.	List Each	Cat. No.	List Each
Red	DS24	\$2.10	DS24g*	\$2.60
Green	DS41	3.50	DS41g	3.99
Amber	DS44	3.50	DS44g	4.00

*Add suffix "SA" for copper-free aluminum

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%


CROUSE-HINDS CONDULET®

CONDUIT FITTINGS


COVERS FOR FS AND FD SERIES

For Despard, Bryant, Hubbell, Arrow-H. & H., and G-E Wiring Devices


30-Ampere Flush Plug Receptacles

Cat. No.	List Each	Style
 DS35	\$0.32	Surface
DSS35	.30	Flush

With Female Brass Nipple

Cat. No.	List Each	Style
 DS18	\$0.99	Surface
DS116	\$0.99	Surface

Blank Covers


Cat. No.	List Each	Style
 DS100	\$0.21	Surface
DSS100	.20	Flush
DS100g	\$0.53	Surface
DS100g	.53	Flush

VAPORTIGHT AND WEATHERPROOF COVERS


With Switch Operating Mechanism

Surface or flush. Furnished with gasket.

For External Operation of Double Push Button Switches

Cat. No.	List Each	Material
 DS108*	\$3.60	Cast Feraloy

For Momentary Contact Switches

Cat. No.	List Each	Material
 DS107	\$4.49	Cast Feraloy

For Standard Operation "On" or "Off"



Furnished with Switch Mounting Bridge.

Switch Arrangement	Material	No.	List Each
2 Switches	Cast Feraloy	DS102	\$6.09
3 Switches	Cast Feraloy	DS103	7.59



Furnished with Buttons for Operating Motor Control Push Button and "Standard" Push Button Switches.

For Motor Control Push Button Switches

Description	Switch Markings	Cat. No.	List Each
1 Button (Norm. Open)	Start	DS171F	\$3.99
1 Button (Norm. Closed)	Stop	DS171G	3.99
2 Buttons (1 Norm. Open, 1 Norm. Closed)	Start, Stop	DS171	3.54

For "Standard" Flush Push Button Switches

Description	Cat. No.	List Each
2 Buttons (3 & 4 Way)	None DS171J	\$3.99

For External Operation of Tumbler Switches



For Standard Operation "On" or "Off"

Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
DS128	\$3.54	DS181	\$3.54	DS185	\$3.54

*Add suffix "SA" for copper-free aluminum.

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

TWO-GANG FS AND FD SERIES FITTINGS

FS Series Fittings take Covers and Shallow Flush Rectangular Wiring Devices.

FD Series Fittings take Covers and Deep or Shallow Flush Rectangular Wiring Devices.

Overall dimensions, exclusive of hubs; FS—Length, 4⁵/₈" ; width, 4⁵/₈" ; depth, 1⁷/₈". FD—Length, 4¹/₈" ; width, 4⁵/₈" ; depth, 2¹/₈".

FS fittings can be furnished with flat face (4¹/₂ x 4⁵/₈ x 2¹/₈ inches) to take standard wall plates at the same list prices; add Suffix S24 to catalog number.

FS Series take devices 1⁵/₈" deep or less.

FD Series take devices 2³/₈" deep or less.

Threaded for Rigid Conduit (Thick Wall)
Type FS or FD Type FSA or FDA



Cat. No.	List Each	Size
FS12	\$2.65	1/2
FS22	2.75	3/4
FS32	2.90	1
FD12	3.05	1/2
FD22*	3.15	3/4
FD32*	3.30	1

Cat. No.	List Each
.....
.....
.....
FDA22	\$3.15
.....

Type FSC or FDC



Cat. No.	List Each
FSC12	\$2.85
FSC222	3.00
FSC32	3.40
FDC12*	3.25
FDC222*	3.40
FDC32*	3.80

Type FSS or FDS

Type FSD



Cat. No.	List Each	Size
FSS222	\$3.00	3/4*
FDS222	3.40	3/4*

Cat. No.	List Each
FSD212	\$3.30
.....

*The hubs at the top in the illustration are 1/2 inch on types FSD and FDB.

TWO-GANG TANDEM FS SERIES FITTINGS

Take Single-Gang Covers and Receptacle Housings Threaded for Rigid Conduit (Thick Wall)

Type FS, 2-Gang Tandem

Type FSC, 2-Gang Tandem



Cat. No.	List Each	Size
FS17	\$3.30	1/2
FS27	3.50	3/4

Cat. No.	List Each
FSC17	\$3.50
FSC27	3.70

*Add suffix "SA" for copper-free Aluminum

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

TWO-GANG COVERS

For FS and FD Series Fittings, Two-Gang and Type ExF Two-Gang Extensions

For Double Push Button, Double Push Button Momentary Contact, and Double Push Lock Switches



Cat. No.	Style	List Each
S322*	Sheet Steel Surface	\$0.60



S322g	Cast Feraloy—Guarded Surface or Flush	1.30
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For Duplex Convenience Receptacles—Standard and 2-Wire, 3-Pole Grounding Type, and for Switches with Square Handles



S32232*	Sheet Steel Surface	1.00
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For Switches with Square Handles and Pilot Lamp Flush Receptacles



S32242	Sheet Steel Surface Furnished with Red Jewel	2.40
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For P&S-Despard, Bryant, Hubbell, Arrow-H.&H., and General Electric Interchangeable Wiring Devices

Sheet Steel
(Furnished with Mounting Bridge)

For Duplex Convenience Receptacles—Standard and 2-Wire, 3-Pole Grounding Type



Cat. No.	Style	List Each
S232*	Sheet Steel Surface	.60
SS232	Sheet Steel Flush	.60

For Duplex Convenience Receptacles—Standard and 2-Wire 3-Pole Grounding Type, and for Pilot Lamp Flush Receptacles

For 30-Ampere, 250-Volt Receptacles
Sheet Steel



S612	2-Pole (Hole for Receptacle Face, 2 ⁵ / ₃₂ " Dia.) Surface	1.00
S622	(Hole for Receptacle Face, 2 ¹ / ₈ " Diam.) Surface	1.00

Blank Metal Covers



S1002	Sheet Steel Surface	\$.40
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Cast Feraloy®—With Gasket
S1002g* Surface or Flush 1.00

Two-Gang Vaportight Covers
Surface or Flush—Furnished with Gasket
For Standard Tumbler Switches



DS1812	For Standard Operation "On" or "Off"	6.25
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DS1282*	For Standard Operation "On" or "Off"	6.10
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*Add suffix "SA" for copper-free aluminum.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

For FS and FD Series, Single-Gang
and FS Series 2-Gang Tandem; and
Type ExF Extensions

TYPE DS PLUG RECEPTACLE HOUSINGS

Take Standard Attachment Plugs—Threaded
Housings Take Type WP Plugs—Surface or Flush



Type DS
With Spring
Door ‡



Type DS
With Threaded
Cap (Furnished
with Gasket)

Cat. No.	List Each	Cat. No.	List Each
15 Amperes, 125 Volts			
2-Wire, 2-Pole			
DS83	\$5.20	DS81*	\$4.39
15 Amperes, 125 Volts; 10 Amperes, 250 Volts			
2-Wire, 3-Pole			
DS84††	7.20	DS82*	6.39
3-Wire, 3-Pole			
DS91	7.24	DS90*	6.49
Twistlock—2-Wire, 2-Pole			
DS231	6.75	DS237*	6.00
Twistlock—2-Wire, 3-Pole			
DS219††	7.55	DS220*	6.75
Twistlock—3-Wire, 3-Pole			
DS232	8.50	DS238*	7.50
15 Amperes, 125 Volts			
Grounding For Parallel Blades 2-Wire, 3-Pole			
DS99††	7.19	DS96*	6.29
15 Amperes, 250 Volts			
Grounding For Tandem Blades 2-Wire, 3-Pole			
DS208††	8.25	DS209*	7.49

‡Cannot be used with Type WP Plugs.
††Third pole grounded.

*Add suffix "SA" for copper-free aluminum

**TYPE WP VAPORTIGHT AND
WEATHERPROOF PLUGS**



For use with Type DS and Type
GS Threaded Receptacle Housings.

Copper-Free Aluminum

Style	Size Cord	Cat. No.	List Each
15 Amperes, 125 Volts			
2-Pole			
Tandem Blade	.375 to .500	WP721	\$3.00
2-Pole	.500 to .625	WP821	3.00
Parallel Blade	.375 to .500	WP722	3.00
	.500 to .625	WP822	3.00
15 Amperes, 125 Volts; 10 Amperes, 250 Volts			
3-Pole			
	.375 to .500	WP731	3.50
	.500 to .625	WP831	3.50
Twistlock	.375 to .500	WP727	3.30
2-Pole	.500 to .625	WP827	3.25
Twistlock	.375 to .500	WP728	4.00
3-Pole	.500 to .625	WP828	4.00
15 Amperes, 125 Volts			
2-Wire, 3-Pole			
	.375 to .500	WP720	3.50
	.500 to .625	WP820	3.50
15 Amperes, 250 Volts			
2-Wire, 3-Pole			
	.375 to .500	WP725	3.80
	.500 to .625	WP825	3.80

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

For FS and FD Series, Single-Gang
and FS Series 2-Gang Tandem; and
Type ExF Extensions

TYPE DS PLUG RECEPTACLE HOUSINGS



Plain
Housing With
Receptacle



Spring Door
Housing With
Receptacle



Threaded Cap
Housing With
Receptacle

Plain Cat. No.	List Each	With Spring Door Cat. No.	List Each	With Threaded Cap ‡ Cat. No.	List Each
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15 Amperes, 125 Volts; 10 Amperes, 250 Volts					
Hole in Cover, 1-7/16" Dia.					
2-Wire, 2-Pole—Double T					
DS325	\$3.50	DS332	\$4.50	DS339	\$5.00
2-Wire, 2-Pole—Polarized					
DS326	4.00	DS333	5.50	DS340	6.00
2-Wire, 3-Pole*—Polarized					
DS327	4.50	DS334	6.00	DS341	7.00
3-Wire, 3-Pole—Polarized					
DS328	5.00	DS335	6.50	DS342	7.00
2-Wire, 2-Pole—Twistlock					
DS329	3.50	DS336	5.50	DS343	5.60
2-Wire, 3-Pole*—Twistlock					
DS330	4.50	DS337	6.50	DS344	7.00
3-Wire, 3-Pole—Twistlock					
DS331	5.50	DS338	7.00	DS345	8.00

20 Amperes, 250 Volts					
Hole in Cover, 1-7/16" Dia.					
2-Wire, 2-Pole—Polarized					
DS346	5.00	DS354	6.00	DS362	6.50
2-Wire, 3-Pole*—Polarized					
DS347	6.00	DS355	7.00	DS135	8.14
3-Wire, 3-Pole—Polarized					
DS348	6.00	DS356	7.00	DS139	8.25
3-Wire, 4-Pole*—Polarized					
DS349	6.00	DS357	8.00	.....	.....
4-Wire, 4-Pole—Polarized					
DS350	6.00	DS358	7.50	.....	.....
2-Wire, 2-Pole—Twistlock					
DS351	4.00	DS359	5.50	DS365	6.00

20 Amperes, 250 Volts; 10 Amperes, 600 Volts A.C.					
Hole in Cover, 1-7/16" Dia.					
2-Wire, 3-Pole*—Twistlock					
DS352	6.00	DS360	7.00	DS138	8.25
3-Wire, 3-Pole—Twistlock					
DS353	6.00	DS361	7.00	DS137	8.25

20 Amperes, 250 Volts; 10 Amperes, 600 Volts A.C.					
Hole in Cover, 1 5/8" Dia.					
3-Wire, 4-Pole*—Twistlock					
DS366	7.00	DS368	8.50	.....	.....
4-Wire, 4-Pole—Twistlock					
DS367	7.00	DS369	8.50	.....	.....

*Extra pole grounded.

‡Cannot be used with Type WP Plugs.

††Third pole grounded.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

THREE-GANG FS AND FD SERIES FITTINGS

FS Series fittings take Covers and Shallow Flush Rectangular Wiring Devices.

FD Series fittings take Covers and Deep or Shallow Flush Rectangular Wiring Devices.

Overall Dimensions, exclusive of hubs: FS—Length, 4⁵/₁₆”; width, 6¹/₂”; depth, 1⁷/₈”. FD—Length, 4⁵/₁₆”; width, 6¹/₂”; depth, 2¹¹/₁₆”. FS fittings can be furnished with flat face (4¹/₂x6¹/₂x2¹/₁₆ inches) to take standard wall plates at the same list prices; add Suffix S24 to catalog number.

FS Series take devices 1⁵/₈” deep or less.
FD Series take devices 2³/₈” deep or less.

Threaded for Rigid Conduit (Thick Wall)

Type FS or FD			
Cat. No.	List Each	Size	
FS23	\$4.00	3/4	
FS33	4.15	1	
FD23*	4.60	3/4	



Type FSS

Size	Cat. No.	List Each
3/4	FSS23	\$4.50

*The hubs at the top in the illustration are 1/2 inch.

THREE-GANG COVERS

For FS and FD Series Three-Gang and Type ExF Three-Gang Extensions
For Tumbler Flush Switches with Square Handles

Cat. No.	Sheet Steel List Each	Surface List Each	Size
S323*			.90



Blank Metal Covers

Cat. No.	Sheet Steel Surface List Each	Cast Feraloy—With Gasket Surface or Flush List Each
S1003		\$.80
S1003g*		1.50



THREE-GANG VAPORTIGHT COVERS

Surface or Flush—Furnished with Gasket
For External Operation of Tumbler Switches

Cat. No.	For Standard Operation “On” or “Off”	List Each
DS1283		8.99

FOUR-GANG COVERS

For FS and FD Series Fittings, Four-Gang and Type ExF Four-Gang Extensions
For Tumbler Flush Switches with Square Handles

Cat. No.	Style Sheet Steel Surface List Each
S324	1.20



Blank Metal Covers

Cat. No.	Cast Feraloy—With Gasket Surface or Flush List Each
S1004g*	2.00



*Add suffix “SA” for copper-free aluminum.

**CROUSE-HINDS CONDULET®
CONDUIT FITTINGS**

TYPES FS AND FD FITTINGS WITHOUT HUBS

For Brazed Hubs—Threaded, Threadless, and Union Single and Multiple Gang Fittings with Individual Cover Openings for Single-Gang Covers



Type FS, Five-Gang With Push Button and Tumbler Switch Covers, and Threaded Cap and Spring Door Housings



Type FS, Two-Gang Tandem Type FS, Three-Gang

Listed without hubs. Can be furnished with brazed conduit hubs complete with integral bushings, see schedule below, or can be drilled on the job and used with locknut and bushing. Take single-gang covers to make up combination of several devices in one fitting.

	Type FS		Type FD	
	Cat. No.	List Each	Cat. No.	List Each
Single-Gang	FS01	\$1.00	FD01	\$1.20
Two-Gang Tandem	FS097	2.50	FD097	2.90
Two-Gang	FS02	2.50	FD02	2.90
Three-Gang	FS03	4.00	FD03	4.60
Four-Gang	.....	.....	FD04	6.30
Five-Gang	.....	.....	.....	.....

FS AND FD SERIES

Fittings with Cover Openings for Two, Three, and Four-Gang Covers

These types FS and FD fittings are similar to those listed on previous pages except that they have no cast hubs and are used with brazed hubs for unusual hub arrangements. Can be furnished with brazed conduit hubs complete with integral bushing or they can be drilled on the job and used with locknut and bushing.



Type FS Two-Gang	Type FS Three-Gang	Type FS Four-Gang
Cat. No.	Cat. No.	Cat. No.
FS092	FS093	FS094
List Each \$2.00	List Each \$3.00	List Each \$4.00
FD092 2.40	FD093 3.60	FD094 4.80

BRAZED HUBS FOR FS AND FD SERIES

When ordering with brazed hubs specify type (threaded, union, threadless thin wall or threadless thick wall), size, and location of each hub. Furnish description or sketch of hub layout desired.

Size	Threaded List Each	Threadless List Each
1/2	\$1.10	1 1/4
3/4	1.20	1 1/2
1	1.40	.....

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONDULET® CONDUIT FITTINGS

TYPES FS AND FD FITTINGS

With Bosses for Tapping



Type FS Single-Gang



Type FS Two-Gang



Type FS Three-Gang

	Type FS		Type FD	
	Cat. No.	List Each	Cat. No.	List Each
Single-Gang	FS019*	\$1.50	FD019*	\$2.20
Two-Gang	FS029*	3.00	FD029*	4.40
Three-Gang	FS039*	4.50	FD039*	6.60

Drilling and Tapping Information

These fittings can be drilled and tapped on the job or if specified will be drilled and tapped at the factory for the following prices per opening: 1/2 or 3/4 inch, \$0.30; 1 inch, \$0.30; 1 1/4 or 1 1/2 inch, \$0.50. FS fittings take a maximum size of 1 inch; FD Condulets, 1 1/2 inch.

*Add suffix "SA" for copper-free aluminum.

ROUND BASE FITTINGS

SEH Series

SEH Series take 4-inch octagonal outlet box round base wiring devices or SEH covers

Type SEH



Size	Cat. No.	List Each
1/2	SEH1	\$1.60
3/4	SEH2	1.80

Type SEHT



Size	Cat. No.	List Each
1/2	SEHT1	\$2.10
3/4	SEHT2	2.30
1	SEHT3	2.70

Type SEHC



Size	Cat. No.	List Each
1/2	SEHC1	\$1.90
3/4	SEHC2	2.10
1	SEHC3	2.50

Type SEHX



Size	Cat. No.	List Each
1/2	SEHX1	\$2.30
3/4	SEHX2	2.50
1	SEHX3	2.90



Type SEHL

Size	Cat. No.	List Each
1/2	SEHL1	\$1.90
3/4	SEHL2	2.10

COVERS AND GASKETS

For SEH Series

Covers can be used without Gasket



Material	Size Hub	Cat. No.	List Each
Sheet Steel	Blank Covers	SEH000	\$0.30
		SEH00	.60
Feraloy	Hub Covers	SEH84	1.30
		Gaskets	GASK 202	$.40

For use between fittings and covers or wiring devices.

CROUSE-HINDS CONDULET® CONDUIT FITTINGS

TYPE XJ CONDUIT EXPANSION JOINTS

Vaportight and Weatherproof

Furnished with end bushing and lead wool packing for movable conduit.

Relieve long conduit runs from strain caused by expansion and contraction, due to temperature changes. The National Electrical Code requires that expansion joints and telescoping sections of raceways shall be made electrically continuous by bonding jumpers or other approved means.



GC100 grounding strap, with GC101 or GC102 strap clamps, constitutes an approved bonding jumper and is especially suited for this purpose.

Size Conduit	Maximum Conduit Movement	Minimum Length of GC100 Strap	Cat. No.	List Each
	4	28	XJ14	\$4.20
1/2	8	36	XJ18	4.40
	4	30	XJ24	5.00
3/4	8	38	XJ28	5.30
	4	32	XJ34	5.90
1	8	40	XJ38	6.50
	4	34	XJ44	8.00
1 1/4	8	42	XJ48	8.50
	4	36	XJ54	11.00
1 1/2	8	44	XJ58	12.00
	4	40	XJ64	16.00
2	8	48	XJ68	17.00
	4	44	XJ74	26.00
2 1/2	8	52	XJ78	26.00
	4	48	XJ84	32.00
3	8	56	XJ88	35.00
	4	60	XJ94	47.00
3 1/2	8	68	XJ98	51.00
	4	66	XJ104	56.00
4	8	74	XJ108	61.00

CROUSE-HINDS ENTRANCE EQUIPMENT

TYPE F SERVICE HEADS

Threaded For Rigid Conduit (Thick Wall)

Size	Form	Cat. No.	List Each
Form 8			
With 6 Wire (6 Knockout) Composition Cover†			
1/2		F186	\$.50
With 5 Wire (5 Knockout) Phenolic Covers†			
3/4		F285	\$.65
1		F385	.95
Form 6			
With 6 Wire (6 Knockout) Composition Covers			
2		F686	\$ 4.45
Form 6			
With 6 Wire (6 Knockout) Composition Covers			
2 1/2		F766	\$15.90
3		F866	23.30
3 1/2		F966	30.75
4		F1066	38.45
With Composition Covers for 2 or 3-Wire Service. Covers for 4-Wire Service can be furnished at the same price			
5		F01263	\$96.75
6		F01463	100.20

†-1/2, 3/4, and 1" service heads can be furnished with 2 or 3-wire porcelain covers at the same price.

Substitute the number of wire holes for the last number and add suffix P.H.

Type LBY

Furnished with cast screw cover			
1/2	50	5	LBY1 \$.70
3/4	50	5	LBY2 .90
1	25	5	LBY3 1.30
1 1/4	10	5	LBY4 3.60
1 1/2	5	2	LBY5 5.25



DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS JUNCTIONS

GUA SERIES JUNCTIONS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G and Class III



Type GUA



Type GUAC



Type GUAL

Furnished with surface covers, but can be furnished without covers or with flush, sealing or nipple covers, or fixture canopies.

Cat. No.	With Threaded Hubs List Each	Nom. Diam. Cover Open., In.	Hub Size In.	Outside Dimen. of Body, In.	Dpth.
Type GUA					
GUA14	\$3.10	1/2	2	2 1/2	1 13/16
GUA24	3.20	3/4	2	2 1/2	2
GUA16*	3.80	1/2	3	3 1/2	2
GUA26*	3.90	3/4	3	3 1/2	2
GUA36*	4.00	1	3	3 1/2	2 5/16
GUA47	7.00	1 1/4	3 5/8	4 1/4	2 11/16
GUA59	15.00	1 1/2	5	5 3/4	3 3/4

Cat. No.	With Threaded Hubs List Each	Nom. Diam. Cover Open., In.	Hub Size In.	Outside Dimen. of Body, In.	Dpth.
Type GUAC					
GUAC14	3.30	1/2	2	2 1/2	2 1/4
GUAC24	3.50	3/4	2	2 1/2	2
GUAC16*	4.00	1/2	3	3 1/2	2
GUAC26*	4.20	3/4	3	3 1/2	2
GUAC36*	4.40	1	3	3 1/2	2 5/16
GUAC47	7.50	1 1/4	3 5/8	4 1/4	2 11/16
GUAC49	15.00	1 1/4	5	5 3/4	3 3/4
GUAC59	15.00	1 1/2	5	5 3/4	3 3/4
GUAC69	16.00	2	5	5 3/4	4

Cat. No.	With Threaded Hubs List Each	Nom. Diam. Cover Open., In.	Hub Size In.	Outside Dimen. of Body, In.	Dpth.
Type GUAB					
GUAB14	3.30	1/2	2	2 1/2	2 1/4
GUAB24	3.50	3/4	2	2 1/2	2 1/2
GUAB16*	4.00	1/2	3	3 1/2	2
GUAB26*	4.20	3/4	3	3 1/2	2
GUAB36*	4.40	1	3	3 1/2	2 5/16
GUAB47	7.50	1 1/4	3 5/8	4 1/4	2 11/16
GUAB59	15.00	1 1/2	5	5 3/4	3 3/4
GUAB69	16.00	2	5	5 3/4	4

Cat. No.	With Threaded Hubs List Each	Nom. Diam. Cover Open., In.	Hub Size In.	Outside Dimen. of Body, In.	Dpth.
Type GUAL					
GUAL14	3.30	1/2	2	2 1/2	2 1/4
GUAL24	3.50	3/4	2	2 1/2	2 1/2
GUAL16*	4.00	1/2	3	3 1/2	2
GUAL26*	4.20	3/4	3	3 1/2	2
GUAL36	4.40	1	3	3 1/2	2 5/16
GUAL47	7.50	1 1/4	3 5/8	4 1/4	2 11/16
GUAL49	15.00	1 1/4	5	5 3/4	3 3/4
GUAL59	15.00	1 1/2	5	5 3/4	3 3/4
GUAL69	15.40	2	5	5 3/4	4

TYPE GUA EXTENSION

For flush mounted GUA and GUF series with 3-inch cover opening to make one or more exposed extensions. Furnished with 3 pipe plugs.



Size	Cat. No.	List Each
3/4	GUAX266	\$6.50

*Add suffix "SA" for copper-free Aluminum

CROUSE-HINDS JUNCTIONS

GUA SERIES JUNCTIONS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G and Class III



Type GUAD



Type GUAN



Type GUAT

Cat. No.	With Threaded Hubs List Each	Hub Size In.	Nom. Diam. Cover Open., In.	Outside Dimen. of Body, In.	Dpth.
Type GUAD					
GUAD14	\$3.50	1/2	2	2 1/2	1 13/16
GUAD24	3.80	3/4	2	2 1/2	2
GUAD16	4.20	1/2	3	3 1/2	2
GUAD26	4.50	3/4	3	3 1/2	2
GUAD36	4.70	1	3	3 1/2	2 5/16
GUAD49	16.00	1 1/4	5	5 3/4	3 3/4

Cat. No.	With Threaded Hubs List Each	Hub Size In.	Nom. Diam. Cover Open., In.	Outside Dimen. of Body, In.	Dpth.
Type GUAN					
GUAN14	3.30	1/2	2	2 1/2	2 1/8
GUAN16	4.20	1/2	3	3 1/2	2
GUAN24	3.50	3/4	2	2 1/2	2 5/16
GUAN26	4.20	3/4	3	3 1/2	2
GUAN36	4.40	1	3	3 1/2	2 5/16
GUAN47	7.50	1 1/4	3 5/8	4 1/4	2 11/16
GUAN59	15.00	1 1/2	5	5 3/4	3 3/4
GUAN69	16.00	2	5	5 3/4	4

Cat. No.	With Threaded Hubs List Each	Hub Size In.	Nom. Diam. Cover Open., In.	Outside Dimen. of Body, In.	Dpth.
Type GUAT					
GUAT14	3.50	1/2	2	2 1/2	2 1/4
GUAT24	3.80	3/4	2	2 1/2	2
GUAT16*	4.20	1/2	3	3 1/2	2
GUAT26*	4.50	3/4	3	3 1/2	2
GUAT36*	4.70	1	3	3 1/2	2 11/16
GUAT37	7.50	1	3 5/8	4 1/2	2 5/16
GUAT47	8.00	1 1/4	3 5/8	4 1/4	2 3/8
GUAT49	16.00	1 1/4	5	5 3/4	3 3/4
GUAT59	16.40	1 1/2	5	5 3/4	3 3/4
GUAT69	17.00	2	5	5 3/4	4

*Add suffix "SA" for copper-free aluminum.



Type GUAW



Type GUAX

Cat. No.	With Threaded Hubs List Each	Hub Size In.	Nom. Diam. Cover Open., In.	Outside Dimen. of Body, In.	Dpth.
Type GUAW					
GUAW14	\$3.70	1/2	2	2 1/2	1 13/16
GUAW24	4.10	3/4	2	2 1/2	2
GUAW16	4.40	1/2	3	3 1/2	2
GUAW26	4.80	3/4	3	3 1/2	2

Cat. No.	With Threaded Hubs List Each	Hub Size In.	Nom. Diam. Cover Open., In.	Outside Dimen. of Body, In.	Dpth.
Type GUAX					
GUAX14	3.70	1/2	2	2 1/2	1 13/16
GUAX24	4.10	3/4	2	2 1/2	2
GUAX16*	4.40	1/2	3	3 1/2	2
GUAX26*	4.80	3/4	3	3 1/2	2
GUAX36*	5.20	1	3	3 1/2	2 5/16
GUAX37	8.00	1	3 5/8	4 1/4	2 5/16
GUAX47	8.50	1 1/4	3 5/8	4 1/4	2 3/8
GUAX49	16.00	1 1/4	5	5 3/4	3 3/4
GUAX59	17.00	1 1/2	5	5 3/4	3 3/4
GUAX69	18.00	2	5	5 3/4	4

*Add suffix "SA" for copper-free aluminum

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS JUNCTIONS

GUF SERIES JUNCTIONS

Explosion-Proof, Dust-Tight, Dust-Ignition-Proof, and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III

Furnished with surface cover and threaded hubs

Size Hub	Nom. Dia. of Cover Opening	Cat. No.	List Each
Type GUGC			
1/2	3	GUGC16	\$ 4.60
3/4	3	GUGC26	4.80

Size Hub	Nom. Dia. of Cover Opening	Cat. No.	List Each
Type GUGL			
1/2	3	GUGL16	4.60
3/4	3	GUGL26	4.80

Size Hub	Nom. Dia. of Cover Opening	Cat. No.	List Each
Type GUGT			
1/2	3	GUGT16	5.00
3/4	3	GUGT26	5.20

Size Hub	Nom. Dia. of Cover Opening	Cat. No.	List Each
Type GUFX			
1/2	3	GUFX16	5.40
3/4	3	GUFX26	5.60

Size Hub	Nom. Dia. of Cover Opening	Cat. No.	List Each
Type GUP			
1/2	3	GUP16	5.40
3/4	3	GUP26	5.60



Well suited to use in wiring gasoline pumps or in other locations wherever space is similarly restricted.

Hubs tapped for 3/4-inch conduit. Cover opening, 3 3/8 inches in diameter.

With 6 Hubs		With 10 Hubs	
2 in Top—1 in Each Side	2 in Bottom—None in Back	2 in Top—1 in Each Side	2 in Bottom—4 in Back
(With 3 Pipe Plugs)		(With 7 Pipe Plugs)	
Cat. No.	List Each	Cat. No.	List Each
GUP215	\$6.50	GUP214	\$8.50

Outside Dimensions of Type GUP Body, exclusive of hubs: Length, 4 1/8 inches; width, 4 1/8 inches; depth, 2 1/2 inches.

DOMES COVERS



Two-Inch Depth		Four-Inch Depth		Ten-Inch Depth		
Diam. Open. In.	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
2	GUA-047	\$2.40	.....	.....	.....	.....
3	067	2.80	.....	.....	.....	.....
3 5/8	077	3.50	0716	\$4.20	.....	.....
5	.....	.....	514	15.00	5110	\$23.00

CONNECTION BLOCK

For GUA Series listed, and Types GU and GUE. 4-Wire, 20-Ampere, 250-Volt



Cat. No.	List Each	Diam. Open. In.
CB1124	\$2.80	3 5/8 to 3

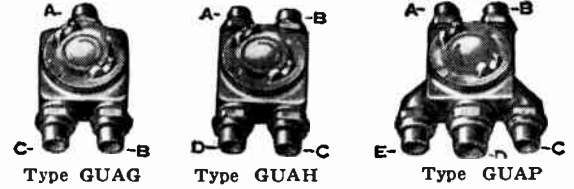
CROUSE-HINDS JUNCTIONS

GUA SERIES JUNCTIONS

With Union Hubs

Explosion-Proof and Dust-Ignition-Proof

Outside dimensions of body: length, 3 3/4 inches; depth, 1 1/8 inches at corners, 3 1/8 inches over covers; nominal diameter of cover opening, 3 inches. Width, type GUAQ, 5 5/8 inches; other types, 3 3/4 inches.



Hub Sizes (Inches)	Without Nuts and Sleeves		With Nuts and Sleeves	
	Cat. No.	List Each	Cat. No.	List Each
A B C	GUAG-			
1/2-1/2-1/2			6665	\$8.50
3/4-3/4-3/4	GUAG706	\$5.80	7775	8.50
1/2-3/4-3/4			6775	8.50
3/4-1/2-1/2			7665	8.50
A B C D	GUAH-			
3/4-3/4-3/4-3/4			77775	10.10
A B C D E			GUAP-	
3/4-3/4-3/4-3/4-3/4	*GUAP706	\$7.00	77775	11.70

*The D hub requires the use of a 1-inch nut for 1/2, 3/4, and 1-inch sleeve.

THREADED COVERS AND CANOPIES

For GUA and GUF SERIES

Used Interchangeably on GUA and GUF Series

Surface Covers Flush Covers Sealing Covers



Diam. Open. In.	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
2	GUA04	\$1.40	GUA049	\$1.70	GUA041	\$1.70
3	GUA06	1.60	GUA069	2.10	GUA062	2.10
3 5/8	GUA07	2.30	.....	.....	GUA072	2.70
5	GUA09	7.50	.....	.....	GUA092	8.00

Fixture Canopies

Fixture Covers



Diam. Open. In.	Cat. No.	Fix. Stem In.	List Each	Cat. No.	Fix. Stem In.	List Each
2	.....	.....	.....	.....	.....	.....
3	GUA0618	1/2	\$7.50	GUA0686	1/2	\$5.80
3	GUA068	3/4	7.50	GUA0687	3/4	5.80
3	GUA0684	1 1/4	8.50	.....	.....	.....

Nipple Covers



Diam. Open. In.	Cat. No.	Fix. Stem In.	List Each
2	GUA0471	1/2	\$4.90
3	GUA0671	1/2	3.30
3	GUA0672	3/4	3.70

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

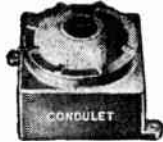
**CROUSE-HINDS JUNCTIONS
TYPES GU, GUE, AND GUB JUNCTION FITTINGS**

Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Group D; Class II, Groups E, F, and G; and Class III

(Type GUB and GUE also Group B)

These can be equipped with threaded or union hubs located as required. When ordering refer to information tables below and furnish a sketch showing the size, location and type of hubs required on each Condulet. Add price of hubs selected to price of Condulet. GU and GUE Series take CB1124, four-wire connection block.



GUB01, GUB02, GUB06



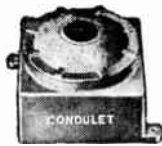
GU and GUE

Cat. No.	List Each	Overall Dimensions in Inches of Body Including Cover			Diam. Cover Opening Inches
		Width	Height	Depth	
GU	\$ 5.00	4 1/8	4 1/8	3 7/16	3 5/8
GUE	6.50	4 5/8	4 5/8	4 5/8	3 5/8
GUB01	22.00	6 1/2	7	5 5/8	5 1/2
GUB02	41.00	8	10	6 3/16	7
GUB06	51.00	8 1/2	10	7 3/16	7
GUB08	58.00	8 1/2	10	7 1/8	7
GUB03	98.00	11	12	9 1/4	9 5/8
GUB04	114.00	11	12	9 1/8	9 5/8
GUB01110	289.00	14 1/16	18 1/16	12 1/8	12 1/4
GUB15151	415.00	18 7/8	20 7/8	16 3/16	16 3/4

TYPE GUB AND EPC THREADED COVERS

For GUB Series Junctions

When GUB Series are used only as pull boxes, the flat covers are suitable but, when splices in heavy conductors are to be made and enclosed, the dome covers are more suitable as the conductors may be pulled in with the ends well out beyond the body opening to make them easily accessible for splicing. After the splices are completed they do not have to be crowded back into the body but can be left as made up to be enclosed and protected by the dome cover.



GUB01, GUB02, GUB06

Body Size	Flat Cover			Dome Cover		
	Cat. No.	List Each	Nom. Depth	Cat. No.	List Each	
GUB01	GUB0101	\$7.00	4	GUB714	\$17.00	
			10	GUB7110	23.00	
GUB02			6	GUB726	29.00	
GUB06	GUB0102	14.00	17	GUB7217	50.00	
GUB08			24	GUB7224	66.00	
GUB03	GUB0103	20.00	10	GUB738	42.00	
GUB04			17	GUB7316	58.00	
GUB-01110	EPC2110	45.00	5	EPC2115	69.00	
			16	EPC21116	110.00	
			22	EPC21122	135.00	
GUB-15151	EPC2151	90.00	17	EPC21517	300.00	

Maximum Size Hubs That Can Be Used

Number of Hubs											
On Top and Bottom			On Each Side				On Back				
1	2	3	4	1	2	3	4	1	2	3	4
No. GU Threaded Hub											
1 1/4	1 1/4	1/2	...	1 1/4	1 1/4	1/2	...	1 1/4	1 1/4	1 1/4	1 1/4
No. GU Union Hub											
1	1	...	...	1	1	...	...	1 1/4	1	1	1
No. GUE Threaded Hub											
2	1 1/2	3/4	...	2	1 1/2	3/4	...	1 1/4	1 1/2	1 1/2	1 1/2
No. GUE Union Hub											
2	1	1/2	...	2	1	1/2	...	1 1/4	1 1/4	1 1/4	1 1/4
No. GUB01 Threaded Hub											
2 1/2	2	1 1/4	...	1/4	2 1/2	2	1 1/4	3/4	4	2 1/2	2
No. GUB01 Union Hub											
2 1/2	1 1/2	1	...	1/2	2 1/2	1 1/2	1	1/2	3	2	1 1/2
No. GUB02 Threaded Hub											
2 1/2	2 1/2	1 1/2	1	2 1/2	2 1/2	2	1 1/2	4	3 1/2	2 1/2	2 1/2
No. GUB02 Union Hub											
2 1/2	2	1	...	3/4	2 1/2	2	1 1/2	1	3	3	2 1/2
No. GUB06 Threaded Hub											
3	2 1/2	1 1/2	...	1	3	2 1/2	2	1 1/2	4	3 1/2	2 1/2
No. GUB06 Union Hub											
3	2	1	...	3/4	3	2	1 1/2	1	3	3	2 1/2
No. GUB08 Threaded Hub											
3	1 1/2	3/4	...	1/2	3	2 1/2	1 1/2	1 1/4	4	3 1/2	2 1/2
No. GUB08 Union Hub											
3	1	1/2	...	1/2	3	2	1	1	3	3	2 1/2
No. GUB03 Threaded Hub											
4	3 1/2	2	...	1 1/2	4	3 1/2	2 1/2	1 1/2	4	4	3 1/2
No. GUB03 Union Hub											
4	3	1 1/2	...	1	4	3	2	1 1/4	4	3	3
No. GUB04 Threaded Hub											
4	3	1 1/2	...	1 1/4	4	3 1/2	2 1/2	1 1/2	4	4	4
No. GUB04 Union Hub											
4	2 1/2	1 1/2	...	1	4	3	2	...	4	3	3
No. GUB01110 Threaded Hub											
4	4	3	...	2	4	4	3	2	4	4	4
No. GUB01110 Union Hub											
4	4	2 1/2	...	1 1/2	4	4	2 1/2	1 1/2	4	4	4
No. GUB15151 Threaded Hub											
4	4	3 1/2	...	2 1/2	4	4	3 1/2	2 1/2	4	4	4
No. GUB15151 Union Hub											
4	4	3	...	2	4	4	3	2	4	4	4

§A 1 1/4" hub is the largest that can be located in the center of the back and still attach the CB 1124 connection block. If connection block is not used, a 2 1/2" threaded or union hub can be supplied.

THREADED AND UNION HUBS FOR GU, GUE, AND GUB SERIES

Size	Threaded		Union	
	Symbol	List Each	Symbol	List Each
1/2	1	\$ 1.90	W	\$ 2.70
3/4	2	2.00	X	2.70
1	3	2.30	Y	3.20
1 1/4	4	2.70	R	4.40
1 1/2	5	3.40	S	7.10
2	6	4.30	T	9.30
2 1/2	7	6.50	U	13.00
3	8	9.70	V	17.20
3 1/2	9	13.20	WD	22.20
4	10	17.20	XD	27.20

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS JUNCTIONS

Class I, Groups C and D; Class II, Groups E,F, and G; and Class III

CPS SERIES JUNCTIONS

Explosion-Proof and Dust-Ignition-Proof (Dust-Tight) Furnished with Hub Cover

Condulet	Hub Cover	Without Mtg. Feet		With Mtg. Feet	
		Cat. No.	List Each	Cat. No.	List Each

Dead End Form 10

CPS- 10181 \$4.20 10101 \$4.40

3/4 20181 4.30 20101 4.50

3/4 20182 4.40 20102 4.60

1 30181 4.40 30101 4.60

1 30182 4.50 30102 4.70

Form 20

1/2 10281 6.60 10201 6.80

3/4 20281 6.70 20201 6.90

3/4 20282 6.80 20202 7.00

1 30281 6.80 30201 7.00

1 30282 6.90 30202 7.10

Through Feed Form 10

1/2 11181 4.40 11101 4.60

3/4 21181 4.60 21101 4.80

3/4 21182 4.70 21102 4.90

1 31181 4.80 31101 5.10

1 31182 4.90 31102 5.20

Form 20

1/2 11281 6.80 11201 7.00

3/4 21281 7.00 21201 7.20

3/4 21282 7.10 21202 7.30

1 31281 7.20 31201 7.40

1 31282 7.30 31202 7.50

Type L Form 10

1/2 12181 4.40 12101 4.60

3/4 22181 4.60 22101 4.80

3/4 22182 4.70 22102 4.90

1 32181 4.80 32101 5.10

1 32182 4.90 32102 5.20

Form 20

1/2 12281 6.80 12201 7.00

3/4 22281 7.00 22201 7.20

3/4 22282 7.10 22202 7.30

1 32281 7.20 32201 7.40

1 32282 7.30 32202 7.50

Type T Form 10

1/2 13181 4.60 13101 4.80

3/4 23181 4.90 23101 5.20

3/4 23182 5.10 23102 5.30

1 33181 5.30 33101 5.50

1 33182 5.40 33102 5.60

Form 20

1/2 13281 7.00 13201 7.20

3/4 23281 7.30 23201 7.50

3/4 23282 7.40 23202 7.60

1 33281 7.60 33201 7.80

1 33282 7.70 33202 7.90

Type X Form 10

1/2 14181 4.80 14101 5.10

3/4 24181 5.30 24101 5.50

3/4 24182 5.40 24102 5.60

1 34181 5.70 34101 5.90

1 34182 5.80 34102 6.00

Form 20

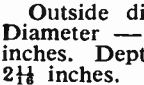
1/2 14281 7.20 14201 7.40

3/4 24281 7.60 24201 7.80

3/4 24282 7.70 24202 7.90

1 34281 8.00 34201 8.20

1 34282 8.10 34202 8.30



Outside dimensions of body exclusive of hubs: Diameter — Form 10, 3 1/2 inches. Form 20, 4 5/8 inches. Depth — Form 10, 2 1/2 inches. Form 20, 2 1/4 inches.

CROUSE-HINDS JUNCTIONS

EJH SERIES JUNCTIONS

For Pulling In or Splicing Conductors Explosion-Proof, Dust-Tight, and Weather Resistant —Raintight

Class I, Group D; Class II, Groups E, F, and G; and Class III



The Condulet body has four bosses located 90° apart around the sides and one boss in the center back. These bosses can be drilled and tapped for 1/2 inch or 3/4 inch conduit.

When ordering include sketch showing location of holes to be drilled and tapped and size desired. Price of Condulet includes drilling and tapping.

Inside Depth	Nominal Depth of Cover	Cat. No.	List Each
2 5/8	.....	EJH50	\$17.00
With Flat Cover			
With Dome Cover			
3 7/8	1 1/4	EJH51	18.00
4 3/8	2 1/4	EJH52	19.00
5 1/8	3 1/4	EJH53	20.00
7 3/8	5	EJH55	21.00

OE SERIES JUNCTIONS

Explosion-Proof and Dust-Tight

Class I, Groups C and D; Class II, Groups E,F, and G; and Class III



Cat. No.	List Each	Size	Cat. No.	List Each
OEC1	\$3.20	1/2	OET1	\$3.40
OEC2	3.70	3/4	OET2	4.00



Size	Cat. No.	List Each	Cat. No.	List Each
1/2	OELB1	\$3.20	OELL1	\$3.20
3/4	OELB2	3.70	OELL2	3.70



Size	Cat. No.	List Each
1/2	OELR1	\$3.20
3/4	OELR2	3.70

TYPE EKC JUNCTIONS

Explosion-Proof and Dust-Tight

Class I, Group D; Class II, Groups E, F, and G; and Class III EKC30, 40, 50, and 60 are also suitable for Class I, Group C Locations

Size Hubs	Cat. No.	List Each
1	EKC30	\$19.00
1 1/4	EKC40	21.00
1 1/2	EKC50	29.00
2	EKC60	30.00
2 1/2	EKC70	63.00
3	EKC80	65.00



DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS JUNCTIONS

TYPE EJB JUNCTION BOXES

Explosion-Proof, and Dust-Tight

Class I, Group D; Class II, Groups E, F, and G; and Class III



EJB886



EJB4164



EJB121206

Boxes are available in Feraloy® or light corrosion-resistant, copper-free aluminum. Aluminum bodies will be supplied with drilled and tapped openings only.

Cat. No.	List Each	(Nom. Inside Dimensions—)		
		Sides AA	Top & Bottom BB	Depth
EJB464	\$34.00	4	6	4
EJB684	44.00	6	8	4
EJB686	61.00	6	8	6
EJB886	77.00	8	8	6
EJB1284	87.00	8	12	4
EJB4164	75.00	4	16	4
EJB8106	93.00	8	10	6
EJB8138	147.00	8	13	8
EJB9166	168.00	9	16	6
EJB12168	205.00	12	16	8
EJB12236	215.00	12	23	6
EJB15810	184.00	8	15	10

Symbols and List Prices of Conduit Openings Table 1

Size	Sym- bol	Tapped Hole	Brazed Threaded Hub	Brazed Union Hub	List Each
		Sym- bol	Sym- bol	Sym- bol	
1/2	A	1	1	W	\$2.70
3/4	B	2	2	X	2.70
1	C	3	3	Y	3.20
1 1/4	E	4	4	R	4.40
1 1/2	F	5	5	S	7.10
2	G	6	6	T	9.30
2 1/2	H	7	7	U	13.00
3	J	8	8	V	17.20
3 1/2	K	9	9	WD	22.20
4	L	10	10	XD	27.20

Aluminum Junction Boxes

Cat. No.	List Each	(Nom. Inside Dimensions—)		
		Sides AA	Top & Bottom BB	Depth
EJB121206	\$130.00	12	12	6
EJB121208	135.00	12	12	8
EJB161606	220.00	16	16	6
EJB161608	235.00	16	16	8
EJB181206	175.00	12	18	6
EJB181208	205.00	12	18	8
EJB241208	225.00	12	24	8
EJB241210	245.00	12	24	10
EJB241808	375.00	18	24	8
EJB241810	395.00	18	24	10
EJB242408	435.00	24	24	8
EJB242410	475.00	24	24	10
EJB361208	445.00	12	36	8
EJB361808	560.00	18	36	8

CROUSE-HINDS JUNCTIONS

RS SERIES JUNCTIONS

Weather Resistant—Raintight



Take conduit hub plates. Furnished with cast Feraloy cover, screws and gaskets for cover and hub plates.

Type	Inside Dimen. Inches	Cat. No.	List Each
RS	8 1/2 x 8 1/2 x 4	RS1	\$20.00
RSM	8 1/2 x 4 1/2 x 4	RSM1	18.00
RSS	4 1/2 x 4 1/2 x 4	RSS1	15.00

RSP SERIES CONDUIT HUB PLATES

For RS Series Junctions

For 8 1/2 x 4-Inch Sides of Types RS and RSM Series
Approximate outside dimensions, 8 1/8 x 3 1/2 inches.
Cap screws and gaskets furnished with Condulet.

With One Hub

With Two Hubs

*Size	Cat. No.	List Each	*Size	Cat. No.	List Each
1/2	RSP1	\$2.00	1/2-1/2	RSP11	\$2.60
3/4	RSP2	2.10	3/4-3/4	RSP22	2.90
1	RSP3	2.20	1-1	RSP33	3.10
1 1/4	RSP4	2.30	1 1/4-1 1/4	RSP44	3.40
1 1/2	RSP5	2.40	1 1/2-1 1/2	RSP55	3.70
2	RSP6	2.50	2-2	RSP66	4.20
2 1/2	RSP7	3.40			
3	RSP8	4.00			

With Three Hubs

Blank

RSP-	Cat. No.	List Each	RSP0	List Each
1/2-1/2-1/2	111	\$2.90		
3/4-3/4-3/4	222	3.20		
1-1-1	333	3.60		
1 1/4-1 1/4-1 1/4	444	4.00		
1 1/2-1 1/2-1 1/2	555	4.50		
			RSP0	1.90

*Sizes given from left to right in illustrations.

RSM SERIES CONDUIT HUB PLATES

For 4 1/2 x 4-Inch Sides of

RSM and RSS Series Junctions

Approximate outside dimensions, 3 1/2 x 3 1/2 inches.
Cap screws and gaskets furnished with Condulet.

With One Hub

With Two Hubs

Size	Cat. No.	List Each	Size	Cat. No.	List Each
1/2	RSMP1	\$1.00	1/2-1/2	RSMP11	\$1.50
3/4	RSMP2	1.10	3/4-3/4	RSMP22	4.10
1	RSMP3	1.20			
1 1/4	RSMP4	1.30			
1 1/2	RSMP5	1.40			
2	RSMP6	1.50			
2 1/2	RSMP7	2.20			
			Blank	RSMP0	.90

CROUSE-HINDS CONTROL STATIONS

TYPE EMP BARREL ASSEMBLIES

These assemblies can be installed in the covers, sides or back of EJB junction boxes. The short units (EMPS) are recommended for covers and the standard units (EMP) for sides or back.



Three position selector switch

Single push button
Double push button,
single operator



Description	Short Assemblies Cat. No.	Std. Assemblies Cat. No.
Pilot Light		EMP009
Single P.B. with SW126 Sw.	EMPS019	EMP019
Single P.B. with D35 Sw.	EMPS029	EMP029
Double P.B. with D35 Sw.	EMPS039	EMP039
2 pos. Selector Sw. (A1-A2)	EMPS049	EMP049
2 pos. Selector Sw. (A1, B1-A2, B2)	EMPS059	EMP059
3 pos. Selector Sw. (A1-OFF-A2)	EMPS069	EMP069
3 pos. Selector Sw. (A1, B1-OFF-A2, B2)	EMPS079	EMP079
3 pos. Selector Sw. (A2, B1-A1, B1-A1, B2)	EMPS089	EMP089
Selector P.B. Sw. (A2, B1-A2, B2-A1, B2)	EMPS099	EMP099

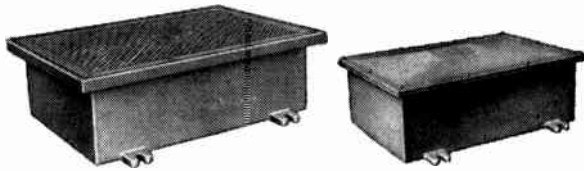
DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS JUNCTIONS

TYPE WJB AND WJBF JUNCTION BOXES

**Watertight and Weather Resistant—Raintight
Meet NEMA 4 Test Requirements**

**Hot-Dip Galvanized Feraloy or Aluminum—
Same Price—Standard Material Feraloy—
Designated Aluminum by Suffix "SA"**



Type WJB181206-MF

Type WJBF181206-MF

Type WJB and WJBF junction boxes are suitable for both outdoor and indoor use. A round Neoprene gasket, cemented to the cover, effectively prevents the entrance of water even when the area is washed down with a hose. Bodies are outside flange design. Type WJB is for surface mounting and type WJBF with recessed, flat "sidewalk" cover is for flush mounting in walls or floors. Either type may be obtained with mounting feet by adding Suffix "MF" to the catalog numbers at the additional list prices indicated on next page.

Standard finish is hot-dip galvanized Feraloy. Aluminum is also available at no additional charge and is specified by adding Suffix "A" to the catalog number.

Pads of sample drilling templates for submittal of conduit arrangements are available on request. The number, type, and size of conduit entrance, in the location required, must be submitted on the drilling template or similar sketch.

TYPE WJB JUNCTION BOXES

Catalog Number	List Each	Max. Conduit Openings D & T	Nom. Wall Thickness
WJB040404	\$ 8.25	2	$\frac{9}{32}$
WJB060404	10.95	2	$\frac{9}{32}$
WJB080604	17.95	2	$\frac{9}{32}$
WJB080606	21.95	4	$\frac{9}{32}$
WJB080804	23.75	2	$\frac{9}{32}$
WJB080806	27.50	4	$\frac{9}{32}$
WJB100804	31.00	2	$\frac{9}{32}$
WJB100806	37.50	4	$\frac{9}{32}$
WJB100808	39.50	5	$\frac{9}{32}$
WJB120804	32.00	2	$\frac{9}{32}$
WJB120806	36.25	4	$\frac{9}{32}$
WJB120808	45.50	5	$\frac{9}{32}$
WJB181206	89.50	4	$\frac{1}{8}$
WJB181208	94.50	5	$\frac{1}{8}$
WJB181210	97.50	6	$\frac{1}{8}$
WJB181212	115.00	6	$\frac{1}{8}$
WJB241206	125.00	4	$\frac{3}{8}$
WJB241208	149.00	5	$\frac{3}{8}$
WJB241210	174.00	6	$\frac{3}{8}$
WJB241212	199.00	6	$\frac{3}{8}$
WJB241806	194.50	4	$\frac{3}{8}$
WJB241808	199.50	5	$\frac{3}{8}$
WJB241810	201.00	6	$\frac{3}{8}$
WJB241812	209.00	6	$\frac{3}{8}$
WJB242406	214.00	4	$\frac{3}{8}$
WJB242408	223.00	5	$\frac{3}{8}$
WJB242410	249.00	6	$\frac{3}{8}$
WJB242412	254.00	6	$\frac{3}{8}$

TYPE WJBF JUNCTION BOXES

Catalog Number	List Each	Max. Conduit Openings D & T	Nom. Wall Thickness
WJBF040404	\$ 8.75	2	$\frac{9}{32}$
WJBF060404	11.50	2	$\frac{9}{32}$
WJBF080604	19.95	2	$\frac{9}{32}$
WJBF080606	23.60	4	$\frac{9}{32}$
WJBF080804	25.40	2	$\frac{9}{32}$
WJBF080806	29.95	4	$\frac{9}{32}$
WJBF100804	34.50	2	$\frac{9}{32}$
WJBF100806	41.00	4	$\frac{9}{32}$
WJBF100808	43.25	5	$\frac{9}{32}$
WJBF120804	42.00	2	$\frac{9}{32}$
WJBF120806	46.25	4	$\frac{9}{32}$
WJBF120808	55.50	5	$\frac{9}{32}$
WJBF181206	99.50	4	$\frac{1}{8}$
WJBF181208	104.50	5	$\frac{1}{8}$
WJBF181210	107.50	6	$\frac{1}{8}$
WJBF181212	132.50	6	$\frac{1}{8}$
WJBF241206	135.00	4	$\frac{3}{8}$
WJBF241208	159.00	5	$\frac{3}{8}$
WJBF241210	184.00	6	$\frac{3}{8}$
WJBF241212	209.00	6	$\frac{3}{8}$
WJBF241806	204.50	4	$\frac{3}{8}$
WJBF241808	209.50	5	$\frac{3}{8}$
WJBF241810	209.50	6	$\frac{3}{8}$
WJBF241812	219.00	6	$\frac{3}{8}$
WJBF242406	224.00	4	$\frac{3}{8}$
WJBF242408	233.00	5	$\frac{3}{8}$
WJBF242410	259.00	6	$\frac{3}{8}$
WJBF242412	264.00	6	$\frac{3}{8}$

TYPE LBH FITTINGS

**For Pulling Cables
Explosion-Proof and Dust-Tight**

Class I, Group D; Class II, Groups E, F, and G; and Class III LBH10 and 20 are also suitable for Class I, Groups B and C Locations



Well suited for pulling large conductors or conductors that are stiff because of lead sheathing. Especially useful at motor locations. Covers are domed, providing room for an easy bend in the conductor, thus avoiding undue strain upon the insulation or lead sheath.

Size Hub	Cat. No.	List Each	Overall Length Inches	Overall Width Inches
$\frac{1}{2}$	LBH10	\$ 5.90	$6\frac{1}{8}$	$2\frac{3}{4}$
$\frac{3}{4}$	LBH20	6.50	$6\frac{1}{8}$	$2\frac{3}{4}$
1	LBH30	17.00	$9\frac{3}{8}$	4
$1\frac{1}{4}$	LBH40	17.60	$9\frac{3}{8}$	4
$1\frac{1}{2}$	LBH50	26.00	$12\frac{1}{2}$	5
2	LBH60	27.00	$12\frac{1}{2}$	5
$2\frac{1}{2}$	LBH70	56.00	$17\frac{3}{8}$	$6\frac{5}{8}$
3	LBH80	57.00	$17\frac{3}{8}$	$6\frac{5}{8}$
$3\frac{1}{2}$	LBH90	93.00	31	$7\frac{1}{4}$
4	LBH100	98.00	31	$7\frac{1}{4}$

TYPE ESC PULLS

**For Pulling or Splicing Conductors
Explosion-Proof, Dust-Tight, and Weather
Resistant—Raintight**

Class I, Group D; Class II, Groups E, F, and G; and Class III



For use in hazardous locations, and designed to afford a convenient opening in the conduit system for pulling in or splicing conductors. They have threaded hubs for rigid conduit.

The body is cylindrical with a long work opening in the front between the threaded end portions.

Size Hub	Cat. No.	List Each	Overall Length, In. Conduit Pulled Open	Opening Only
$\frac{1}{2}$	ESC1	\$16.00	$15\frac{1}{8}$	6
$\frac{3}{4}$	ESC2	16.00	$15\frac{1}{8}$	6
1	ESC3	28.00	$23\frac{3}{4}$	10
$1\frac{1}{4}$	ESC4	28.00	$23\frac{3}{4}$	10
$1\frac{1}{2}$	ESC5	58.00	$37\frac{1}{8}$	16
2	ESC6	58.00	$37\frac{1}{8}$	16
$2\frac{1}{2}$	ESC7	102.00	$53\frac{1}{8}$	24
3	ESC8	102.00	$53\frac{1}{8}$	24
$3\frac{1}{2}$	ESC9	257.00	$84\frac{1}{8}$	38
4	ESC10	257.00	$84\frac{1}{8}$	38

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS UNIONS

Explosion-Proof and Dust-Ignition-Proof (Dust-Tight)

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III

TYPE UNY — MALE

For connecting conduit to a Condulet.

Size Inches	Dim., In. Lgth.	Dim., In. Dia.	Cat. No.	List Each
1/2	2 3/16	1 1/2	UNY105*	\$1.09
3/4 to 1/2	2 1/4	1 1/2	UNY215*	1.54
3/4	2 1/4	1 1/2	UNY205*	1.54
1	2 1/2	2 1/8	UNY305*	2.64
1 1/4	3 1/8	2 3/8	UNY405*	4.14
1 1/2	3 3/8	3 1/8	UNY505*	5.34
2	3 3/4	3 1/2	UNY605*	6.89
2 1/2	4 5/8	4 1/8	UNY705*	10.70
3	5	5 1/8	UNY805*	14.50
3 1/2	5 1/2	5 1/2	UNY905*	23.60
4	5 5/8	6 1/8	UNY1005*	26.90
5	5 1/4	8 1/8	UNY012	37.50
6	5 3/8	9 5/8	UNY014	44.40



1/2" — 4"

TYPE UNF — FEMALE

For connecting conduit to conduit.

Size Inches	Dim., In. Lgth.	Dim., In. Dia.	Cat. No.	List Each
1/2	1 1/8	1 1/2	UNF105*	\$0.99
3/4 to 1/2	1 3/4	1 1/2	UNF215*	1.35
3/4	1 3/4	1 1/2	UNF205*	1.35
1	2	2 1/8	UNF305*	2.49
1 1/4	2 1/4	2 3/4	UNF405*	3.79
1 1/2	2 5/8	3 1/8	UNF505*	4.89
2	2 7/8	3 1/2	UNF605*	6.30
2 1/2	3 3/8	4 1/8	UNF705*	8.70
3	3 7/8	5 1/8	UNF805*	12.50
3 1/2	4 1/8	5 1/2	UNF905*	19.70
4	4 1/4	6 1/8	UNF1005*	23.10
5	3 1/2	8 3/8	UNF012	31.20
6	3 1/8	9 1/8	UNF014	37.40



1/2" — 4"

†Size of right end is given first.

*Add suffix "SA" for copper-free aluminum.

TYPE UNL — 90° ANGLE

For Connecting Conduit to a Condulet

Size Inches	Dimensions, Inches			Cat. No.	List Each
	A	B	C		
1/2 to 1/2	2 1/8	1 1/2	1 7/8	UNL105	\$2.80
1/2 to 3/4	2 1/8	1 3/4	1 7/8	UNL125	2.80
3/4 to 1/2	2 1/4	1 3/4	1 7/8	UNL215	2.80
3/4 to 3/4	2 1/4	1 3/4	1 5/8	UNL205	2.80

†Size of right end is given first.



CROUSE-HINDS PIPE PLUGS

TYPE PLG PIPE PLUGS

Explosion-Proof and Dust-Ignition-Proof (Dust-Tight)

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III

Recessed



Cat. No.	List Each	In.
PLG1*	\$.18	1/2
PLG2*	.22	3/4
PLG3*	.26	1
PLG4	.33	1 1/4
PLG5	.45	1 1/2
PLG6	.79	2
PLG7	1.29	2 1/2
PLG8	1.89	3
.....	.....	3 1/2
.....	.....	4

Square Head



Cat. No.	List Each
PLG15	\$0.18
PLG25	.22
PLG35	.26
PLG45	.33
PLG55	.45
PLG65	.79
PLG75	1.29
PLG85	1.89
PLG95	2.40
PLG105	3.20

*Add suffix "SA" for copper-free aluminum.

CROUSE-HINDS CONNECTORS

TYPE UNA CONNECTORS

Explosion-Proof and Dust-Tight

Class I, Group D; Class II, Groups E, F, and G; and Class III

Type UNA is a convenient coupling for conduit joints made at angles from 90 to 180 degrees.

A single clamping nut provides a union feature as well as easy adjustment to required angles.

UNA16, 26, and 36 are classified by Underwriters' Laboratories as box connector conduit unions for use with conduit boxes threaded for conduit support.



Box Connector Conduit Unions— Male For Use Only if Adjacent to a Condulet

Size	Dimensions Length	Width	Cat. No.	List Each
1/2	4 5/8	2 5/8	UNA16	\$5.00
3/4	4 1/2	2 7/8	UNA26	5.50
1	5 1/8	3 1/2	UNA36	6.00

TYPE UNA UNIVERSAL UNIONS

Size	Dimensions Length	Width	Cat. No.	List Each
1/2	3 1/8	2 3/8	UNA1	\$3.90
3/4	4 3/8	2 3/4	UNA2	4.40
1	5 1/8	3 1/2	UNA3	4.80



CROUSE-HINDS ELBOWS

TYPE EL ELBOWS

Explosion-Proof and Dust-Ignition-Proof
Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III

Size In.	Dimen. In.		Cat. No.	List Each
	A	B		
1/2	1 1/8	1 1/8	EL1	\$0.90
3/4	1 3/8	1 3/8	EL2	1.00
1	1 5/8	1 5/8	EL3	1.30
1 1/4	1 3/4	1 3/4	EL4	1.80
1 1/2	1 7/8	1 7/8	EL5	2.10
2	2 1/4	2 1/4	EL6	2.50
2 1/2	2 3/4	2 3/4	EL7	6.50
3	3 1/8	3 1/8	EL8	7.00
3 1/2	3 3/8	3 3/8	EL9	10.00
4	3 5/8	3 5/8	EL10	12.00
90° Male				
1/2	1 1/8	1 1/8	EL195	1.30
3/4	1 3/8	1 3/8	EL295	1.50
1	1 5/8	1 5/8	EL395	1.80
1 1/4	2 1/8	2 1/8	EL495	2.10
90° Female				
1/2	1 7/8	1 7/8	EL19	0.90
3/4	1 3/4	1 3/4	EL29	1.00
1	2	2	EL39	1.30
1 1/4	2 1/4	2 1/4	EL49	2.10
1 1/2	4	4	EL59	3.10
2	5	5	EL69	5.00
2 1/2	6 7/8	6 7/8	EL79	9.50
90° Male and Female				
1/2	1 1/2	1 1/2	EL196	1.30
3/4	1 5/8	1 5/8	EL296	1.50
1	1 7/8	1 7/8	EL396	1.80
1 1/4	2 1/8	2 1/8	EL496	2.10



45° Female



90° Male



90° Female



90° Male and Female

TYPE LBY CAPPED ELBOW — 90°
Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III

Type LBY elbows are convenient, compact pulling elbows for use in hazardous locations. Externally threaded cover opening is placed at a 45° angle allowing a straight pull from each conduit.



Size	Dimension A	Cat. No.	List Each
1/2	2 1/8	LBY15	\$1.10
3/4	2 1/4	LBY25	1.40
1	3 3/8	LBY35	2.10
1 1/4	3 1/8	LBY45	4.50

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS SEALS

TYPE EYS SEALS

Explosion-Proof and Dust-Ignition-Proof (Dust-Tight)
Class I, Groups B, C and D; Class II, Groups E, F and G;
and Class III

For Sealing Vertical Runs of Conduit
Female Hub Top and Bottom

Size In.	Lgth.	Turn- ing Radius	Internal Volume† Cu. In.	Cat. No.	List Each
1/2	3 3/8	1 5/8	1	EYS1	\$1.50
3/4	3 1/4	1 3/8	2	EYS2	1.80
1	4 1/8	2 3/8	3 3/4	EYS3	2.30
1 1/4	5 1/8	1 3/4	8	EYS4	2.80
1 1/2	5 1/2	2 1/8	10 3/4	EYS5	4.20
2	6 1/4	2 5/8	20	EYS6	5.50
2 1/2	7 1/2	2 1 1/8	35	EYS7	8.50
3	8 1/2	3 3/8	57	EYS8	10.50

Male and Female Hub

Size In.	Lgth.	Turn- ing Radius	Internal Volume† Cu. In.	Cat. No.	List Each
1/2	3 3/8	1 5/8	1	EYS16	1.60
3/4	3 1/4	1 3/8	2	EYS26	1.90
1	4 1/8	2 3/8	3 3/4	EYS36	2.40
1 1/4	5 1/8	1 3/4	8	EYS46	2.90
1 1/2	5 1/2	2 1/8	10 3/4	EYS56	4.40
2	6 1/4	2 5/8	20	EYS66	5.80
2 1/2	7 1/2	2 1 1/8	35	EYS76	9.50
3	8 1/2	3 3/8	57	EYS86	10.50

TYPE EYD DRAIN SEALS

For Sealing Vertical Runs of Conduit
Explosion-Proof and Dust-Tight
Class I, Groups C and D

Female Hub Top and Bottom†
Maximum Dimensions Turn- ing Volumes Internal

Size Hub	Lgth.	Wth.	Turn- ing Radius	Internal Volume† Cu. In.	Cat. No.	List Each
1/2	3 3/8	1 1/2	1 5/8	1	EYD1	\$ 5.30
3/4	3 1/4	1 1/4	1 3/8	2	EYD2	5.60
1	4 1/8	2 3/8	2 3/8	3 3/4	EYD3	6.50
1 1/4	5 1/8	2 3/8	1 3/4	8	EYD4	7.00
1 1/2	5 1/2	2 1/8	2 1/8	10 3/4	EYD5	9.00
2	6 1/4	3	2 5/8	20	EYD6	10.00
2 1/2	7 1/2	3 1/2	2 1 1/8	35	EYD7	14.00
3	8 1/2	4 1/4	3 3/8	57	EYD8	20.00
3 1/2	8 1 1/8	4 3/4	3 7/8	75	EYD9	31.00
4	9 1/2	5 1/4	3 1/2	105	EYD10	48.00

†Available with male and female hub at slight additional cost.

TYPE EZD INSPECTION AND DRAIN SEALS

Explosion-Proof and Dust-Tight

Class I, Groups C and D; Class II, Groups E, F, and G
For Sealing Vertical Runs of Conduit

The National Electrical Code requires that conduit systems in Class I Hazardous Locations be provided with means by which the systems can be drained of water, if there is a likelihood of water accumulation.

Type EZD Drain Seals and EZD Inspection Seals listed below make compliance with this rule simple and inexpensive.



Inspection Seals

Size Hub	Dimensions Lgth.	Dia.	Turn- ing Radius†	Internal Volume†	Cat. No.	List Each
1/2	4 1/8	3	2 1/8	5	EZD10	\$2.80
3/4	4 3/8	3	2 3/8	6	EZD20	3.60
1	4 1/2	3 1/2	2 7/8	10	EZD30	4.60
1 1/4	4 3/4	3 1/2	2 1 1/8	11	EZD40	6.70
1 1/2	5 1/8	3 1/2	2 1 1/8	13	EZD50	10.00
2	7 1/8	5 5/8	3 1/8	40	EZD60	13.00

Drain Seals

1/2	4 3/8	3	2 1/8	5	EZD111	6.00
3/4	4 1/2	3	2 3/8	6	EZD211	7.00
1	4 3/4	3 1/2	2 7/8	10	EZD311	8.00
1 1/4	4 1/2	3 1/2	2 1 1/8	11	EZD411	10.50
1 1/2	5 1/8	3 1/2	2 1 1/8	13	EZD511	14.00
2	7 1/8	5 5/8	3 1/8	40	EZD611	17.00

†With cover removed. †Approximate in cubic inches.

CROUSE-HINDS SEALS

TYPE EZS SEALS

Explosion-Proof and Dust-Ignition-Proof

For Sealing Vertical or Horizontal Runs of Conduit

Have round cover openings and provide ample room for placing dams around and between conductors, preparatory to sealing.

Female Hub Top and Bottom

Size In.	Lgth.	Turn- ing Radius†	Internal Volume Cu. In.	Cat. No.	List Each
1/2	4	1 7/8	6 1/4	EZS1	\$2.50
3/4	4 3/8	1 7/8	6 1/2	EZS2	3.20
1	4 1/2	2 1/8	10 1/4	EZS3	4.00
1 1/4	5 1/8	2 3/8	12 1/2	EZS4	5.00
1 1/2	5 3/8	2 1/4	14 1/2	EZS5	7.50
2	7 1/8	3 3/8	46	EZS6	10.00
2 1/2	7 1/8	3 3/8	55	EZS7	16.00
3	8 5/8	3 7/8	90	EZS8	24.00

Male and Female Hub*

1/2	4 3/8	1 7/8	6 1/4	EZS16	2.60
3/4	4 1/8	1 7/8	6 1/2	EZS26	3.30
1	4 1/8	2 1/8	10 1/4	EZS36	4.10
1 1/4	5 1/8	2 3/8	12 1/2	EZS46	5.10
1 1/2	5 3/8	2 1/4	14 1/2	EZS56	8.00
2	7 1/8	3 3/8	46	EZS66	10.00
2 1/2	7 1/8	3 3/8	55	EZS76	17.00
3	8 5/8	3 7/8	90	EZS86	25.00

*The male and female hub listings include a close conduit nipple which may be used interchangeably in either top or bottom hub. †With cover removed.

CHICO A SEALING COMPOUND

Not Affected by Gasoline, Alcohol, Acetone, Ether, Naphtha, Petroleum, Benzol, or Lacquer Solvent



Pkg. No.	Net Wt.	Volume Cu. In.*	Cat. No.	List per Pkg.
2	9 oz.	13	Chico A 2	\$0.80
3	1 lb.	23	Chico A 3	1.30
4	†1 lb.	23	Chico A 4	2.00
23	2 lb.	46	Chico A 23	2.20
24	‡2 lb.	46	Chico A 24	3.80
05	5 lb.	115	Chico A 05	3.60
5	10 lb.	230	Chico A 5	7.50

CHICO X FIBER

Pkg. No.	Net Wt. Oz.	Cat. No.	List per Pkg.
1	3/8 oz.	Chico X 1	\$0.50
2	3/4 oz.	Chico X 2	.80
3	1 oz.	Chico X 3	1.00
4	2 oz.	Chico X 4	1.80
5	4 oz.	Chico X 5	3.40
6	8 oz.	Chico X 6	6.00
7	1 lb.	Chico X 7	10.00



Hub in.	Amount of Fiber Required	per Condulet	Hub
1/2	1 1/4	1 1/2	2 1/2
3/4	1 1/8	1 1/2	3
Oz. Req.	3/8	1/8	1/4
			1 1/2
			2

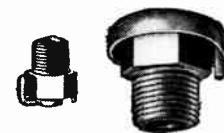
*Number of cubic inches volume this amount fills when set. †With 3/4-ounce Chico X Fiber. ‡With 2-ounce Chico X Fiber.

CROUSE-HINDS DRAINS AND BREATHERS

TYPE ECD DRAIN AND BREATHER VALVES

Explosion-Proof and Dust-Ignition-Proof (Dust-Tight)

Class I, Groups C and D



ECD Drain ECD Breather

The ECD breather valve is similar to the ECD drain but is designed to be installed in the top of explosion-proof housings, allowing air to pass in or out as conditions vary.

The labyrinth handle is a rotating cap to prevent dirt from interfering with the action of the valve.

For Water Only No.	For Water Under Oil No.	For Air Only No.	Size Pipe Thread	List Each		
ECD281	\$3.90	ECD282	\$5.00	ECD283	\$3.90	1/4
ECD381	3.90	ECD382	5.00	ECD383	3.90	3/8
ECD11	3.90	ECD12	5.00	ECD13	3.90	1/2

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS COUPLINGS

EC SERIES FLEXIBLE COUPLINGS

Explosion-Proof, Dust-Ignition-Proof and Watertight

For use in hazardous locations where it is necessary to employ flexible fittings, as at motor terminals. Provide a safe means of making connections. They are made to withstand explosion pressures and to provide ample mechanical and electrical protection.

Also watertight, and are, therefore, suitable for use in damp locations or under water, such as connections to underwater floodlights and fountain lights.

1/2" and 3/4" Sizes: Class I, Groups A, B, C, D;

1" Size: Class I, Groups C and D;

1 1/4"-2" Sizes: Class I, Group D

All Sizes: Class II, Groups E, F, G; and Class III



ECLK
One Female Union,
One Female Fitting
with Male Nipple

ECGJH
Two Female Fittings,
Two Male Nipples

Size	Cat. No.	List Each	Cat. No.	List Each
Flexible Length: 4"				
1/2	ECGJH14	\$10.00	ECLK14	\$10.90
3/4	ECGJH24	12.00	ECLK24	12.90
Flexible Length: 10"				
1/2	ECGJH110	13.20	ECLK110	14.00
3/4	ECGJH210	16.40	ECLK210	17.30
1	ECGJH310	28.40	ECLK310	30.50
Flexible Length: 18"				
1/2	ECGJH118	17.40	ECLK118	18.20
3/4	ECGJH218	22.30	ECLK218	23.10
1	ECGJH318	36.80	ECLK318	38.90
1 1/4	ECGJH418	53.50	ECLK418	56.50
1 1/2	ECGJH518	72.50	ECLK518	76.00
2	ECGJH618	92.50	ECLK618	100.00

TYPE REC REDUCING CONDUIT COUPLING



To facilitate the passing of wires from large size conduit to small conduit, these reducers are made funnel-like internally.

This feature is aided by integral bushings in both ends of the reducing couplings.

Size In.	Cat. No.	List Each	Size In.	Cat. No.	List Each
3/4	1/2 REC21	\$.54	2	1 REC603	\$1.60
1	1/2 REC31	.54	2	1 1/4 REC604	1.65
1	3/4 REC32	.72	2	1 1/2 REC605	1.70
1 1/4	3/4 REC42	.79	2 1/2	1 1/2 REC75	2.00
1 1/4	1 REC43	.80	3	2 REC86	3.00
1 1/2	3/4 REC52	.73	3 1/2	2 1/2 REC97	5.00
1 1/2	1 REC53	.80	4	3 REC108	4.20
1 1/2	1 1/4 REC54	1.04	5	4 REC01210	14.00
2	3/4 REC602	1.50			

CROUSE-HINDS CONNECTORS

EBY PORTABLE CORD CONNECTOR — FACTORY SEALED

Explosion-Proof and Dust-Tight

Class I, Groups B, C and D; Class II, Group G, and Class III



Furnished with 12-inch leads of #12 stranded wire, either type RH or type AF as shown in the listings, for connection to wiring or equipment within the explosion-proof housing.

Equipped with pressure terminals for connection of the portable cord.

Size Nipple	Diameter Cord (Ns. 18 to 12 A.W.G. Three-Cond'r)	Rating	
		20A., 360V. A.C. or D.C. Type RH Wire Leads	List Each
3/4	.250 to .375	EBY2647	\$9.50
	.375 to .500	EBY2668	9.50
	.500 to .625	EBY26810	9.50

CROUSE-HINDS CONNECTORS

TYPE CGB CONNECTORS

Straight—Male Thread With Tapered Rubber Bushing—Watertight



Size In.	Diameter, Inches		Complete		Body Only	
	Cord	Inside Body	Cat. No.	List Each	Cat. No.	List Each

Form B Gland Nut and Rubber Bushing

CGB-						
3/4	.125-.250	.469	3892	\$1.00	4315-A	\$.40
3/4	.250-.375	.469	3893	1.00	4315-A	.40
3/8	.375-.500†	.469	3894	1.00	4315-A	.40
1/2	.125-.250	.625	192*	1.00	4316-A	.40
1/2	.250-.375	.625	193*	1.00	4316-A	.40
1/2	.375-.500	.625	194*	1.00	4316-A	.40
1/2	.500-.625	.625	195*	1.00	4316-A	.40
3/4	.125-.250	.688	292*	1.00	4317-A	.40
3/4	.250-.375	.688	293*	1.00	4317-A	.40
3/4	.375-.500	.688	294*	1.00	4317-A	.40
3/4	.500-.625	.688	295*	1.00	4317-A	.40
1	.250-.375	.688	393	1.20	19478-B	.60
1	.375-.500	.688	394	1.20	19478-B	.60

Form C Gland Nut and Rubber Bushing

CGB-						
1/2	.625-.750†	.625	196	2.00	1702-A	.80
1/2	.750-.875	.625	197	2.00	1702-A	.80
3/4	.625-.750†	.750	296*	2.00	4318-A	.80
3/4	.750-.875†	.750	297*	2.00	4318-A	.80
1	.500-.625	.969	395*	2.00	4319-A	.80
1	.625-.750	.969	396*	2.00	4319-A	.80
1	.750-.875	.969	397*	2.00	4319-A	.80
1	.875-1.000†	.969	3239*	2.00	4319-A	.80

Form D Gland Nut and Rubber Bushing

CGB-						
3/4	.875-1.000†	.688	298*	3.80	4320-A	1.80
1	.875-1.000†	.906	398	3.80	4321-A	1.80
1	1.000-1.188†	.906	399	3.80	4321-A	1.80
1	1.188-1.375†	.906	3911	3.80	4321-A	1.80
1 1/4	.875-1.000	1.219	498*	3.80	4322-A	1.80
1 1/4	1.000-1.188	1.219	499*	3.80	4322-A	1.80
1 1/4	1.188-1.375†	1.219	4911*	3.80	4322-A	1.80
1 1/2	.875-1.000	1.438	598	3.80	5397-B	1.80
1 1/2	1.000-1.188	1.438	599	3.80	5397-B	1.80
1 1/2	1.188-1.375	1.438	5911	3.80	5397-B	1.80

Form E Gland Nut and Rubber Bushing

CGB-						
1 1/4	1.375-1.625†	1.219	4913	5.50	5472-B	2.80
1 1/4	1.625-1.875†	1.219	4915	5.50	5472-B	2.80
1 1/2	1.375-1.625†	1.438	5913	5.50	5473-B	2.80
1 1/2	1.625-1.875†	1.438	5915	5.50	5473-B	2.80
2	1.375-1.625	1.875	6913	5.50	5474-B	2.80
2	1.625-1.875	1.875	6915	5.50	5474-B	2.80
2 1/2	1.375-1.675	1.938	7913	6.30	1278-B	3.60
2 1/2	1.625-1.875	1.938	7915	6.30	1278-B	3.60

Form F Gland Nut and Rubber Bushing

CGB-						
2	1.875-2.118†	1.875	6917	7.00	5475-B	3.30
2	2.188-2.500†	1.875	6920	7.00	5475-B	3.30
2 1/2	1.875-2.188	2.313	7917	8.70	5476-B	5.00
2 1/2	2.188-2.500†	2.313	7920	8.70	5476-B	5.00
3	1.875-2.188	2.625	8917	9.90	5477-B	6.20
3	2.188-2.500	2.625	8920	9.90	5477-B	6.20

†Remove sufficient outer covering of cord or cable to pass conductors through the connector body.

*Add suffix "SA" for copper-free aluminum.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONNECTORS

TYPE CGB CONNECTORS

Watertight
Furnished With Oil Impregnated Flax Packing

Size Nipple	Diameter of Cable	Cat. No.	List Each
1/2	.250 to .625	CGB1	\$1.00
3/4	.594 to .688	CGB2	2.00
1	.688 to .968	CGB3	2.00
1 1/4	.906 to 1.219	CGB4	3.80
1 1/2	1.219 to 1.438	CGB5	3.80
2	1.438 to 1.875	CGB6	5.50
2 1/2	1.875 to 2.313	CGB7	8.70
3	2.313 to 2.625	CGB8	9.90



TYPE CGE CONNECTORS

90° Angle—Male Thread
With Tapered Rubber Bushing—
Watertight

Size	Diameter Cord	Inside Diameter of Body	Cat. No.	List Each
1/2	.125 to .250	.500	CGE192	\$1.60
	.250 to .375		CGE193	1.60
	.375 to .500		CGE194	1.60
	.500 to .625*		CGE195	1.60
	.625 to .750*		CGE196	2.60
	.750 to .875*		CGE197	2.60
3/4	.125 to .250	.688	CGE292	1.60
	.250 to .375		CGE293	1.60
	.375 to .500		CGE294	1.60
	.500 to .625		CGE295	1.60
	.625 to .750*		CGE296	2.60
	.750 to .875*		CGE297	2.60
1	.500 to .625	.906	CGE395	2.60
	.625 to .750		CGE396	2.60
	.750 to .875		CGE397	2.60
	.875 to 1.000*		CGE3239	2.60
	.875 to 1.000*		CGE398	4.50
	1.000 to 1.188*		CGE399	4.50
1 1/4	1.188 to 1.375*	1.219	CGE3911	4.50
	.875 to 1.000		CGE498	4.50
	1.000 to 1.188		CGE499	4.50
1 1/2	1.188 to 1.375*	1.438	CGE4911	4.50
	1.375 to 1.625*		CGE5913	6.00
	1.625 to 1.875*		CGE5915	6.00
2	1.875 to 2.188*	1.875	CGE6917	8.00
	2.188 to 2.500*		CGE6920	8.00

With Tapered Split Lead Sleeve

Size	Diameter Cord	Inside Diameter of Body	Cat. No.	List Each
1/2	.375 to .500	.500	CGE184	\$1.80
	.500 to .625*		CGE185	1.80
	.625 to .781*		CGE186	2.85
	.781 to .938*		CGE187	2.85
3/4	.375 to .500	.688	CGE284	1.80
	.500 to .625		CGE285	1.80
	.625 to .781*		CGE286	2.85
	.781 to .938*		CGE287	2.85
1	.625 to .781	.906	CGE386	2.85
	.781 to .938*		CGE387	2.85
	.938 to 1.156*		CGE389	5.00
	1.156 to 1.375*		CGE3811	5.00
1 1/4	.938 to 1.156	1.219	CGE489	5.00
	1.156 to 1.375*		CGE4811	5.00
1 1/2	1.375 to 1.656*	1.438	CGE5813	6.50
	1.656 to 1.938*		CGE5815	6.50
2	1.938 to 2.281*	1.875	CGE6818	8.80
	2.281 to 2.625*		CGE6821	8.80

*Remove sufficient outer covering of cord or cable to pass conductors through the connector body.

TYPE CG WATERTIGHT STUFFING BOXES

For the passage of conduit through the decks or bulkheads of ships, or where vapor, moisture, or gases are present. Furnished with nuts, washer, double canvas gasket, and flax packing.

Size	Cat. No.	List Each	Size	Cat. No.	List Each
1/2	CG1	\$9.00	1 1/2	CG5	\$20.00
3/4	CG2	9.00	2	CG6	34.00
1	CG3	11.00	2 1/2	CG7	39.00
1 1/4	CG4	15.00	3	CG8	85.00



CROUSE-HINDS REDUCERS

TYPE RE THREADED REDUCERS

Explosion-Proof and Dust-Ignition Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III



Used to reduce hubs from large to smaller sizes.

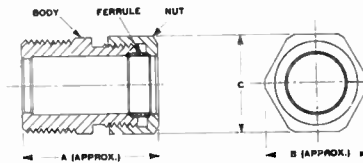
Size In.	Cat. No.	List Per 100	Size In.	Cat. No.	List Per 100
1/2-1/8	RE1108	\$30	2 1/2-1	RE73	\$160
1/2-1/4	RE1208	30	2 1/2-1 1/4	RE74**	160
1/2-3/8	RE1308	22	2 1/2-1 1/2	RE75**	134
3/4-1/2	RE21**	15	2 1/2-2	RE76**	134
1-1/2	RE31**	23	3-1	RE83	230
1-3/4	RE32**	23	3-1 1/4	RE84	230
1 1/4-1/2	RE41**	39	3-1 1/2	RE85**	180
1 1/4-3/4	RE42**	39	3-2	RE86**	180
1 1/4-1	RE43**	39	3-2 1/2	RE87**	180
1 1/2-1 1/2	RE51**	69	3 1/2-2	RE96**	390
1 1/2-3/4	RE52**	69	3 1/2-2 1/2	RE97**	350
1 1/2-1	RE53**	69	3 1/2-3	RE98**	350
2-1 1/2	RE54**	69	4-2	RE106	500
2-1/2	RE61	129	4-2 1/2	RE107**	460
2-3/4	RE62	129	4-3	RE108**	390
2-1	RE63**	99	4-3 1/2	RE109**	390
2-1 1/4	RE64**	99	5-4	RE01210	1300
2-1 1/2	RE65**	99	6-5	RE01412	1600

**Add suffix "SA" for copper-free aluminum.

CROUSE-HINDS TERMINATORS

ALS SERIES TERMINATORS

For Aluminum Sheathed (ALS) Cable—Watertight



Male Thread Size (NPT)	Cable O.D. Range Inches	Cat. No.	List Each	Dimensions, Inches
				A B C
1/2	.399-.423	ALS400	\$1.20	2 1 3/8 1
1/2	.424-.448	ALS425	1.20	2 1 3/8 1
1/2	.449-.473	ALS450	1.20	2 1 3/8 1
1/2	.474-.498	ALS475	1.20	2 1 3/8 1
1/2	.499-.523	ALS500	1.20	2 1 3/8 1
1/2	.524-.548	ALS525	1.20	2 1 3/8 1
3/4	.549-.573	ALS550	1.70	2 1/2 1 3/8 1 1/4
3/4	.574-.598	ALS575	1.70	2 1/2 1 3/8 1 1/4
3/4	.599-.623	ALS600	1.70	2 1/2 1 3/8 1 1/4
3/4	.624-.648	ALS625	1.70	2 1/2 1 3/8 1 1/4
3/4	.649-.673	ALS650	1.70	2 1/2 1 3/8 1 1/4
3/4	.674-.698	ALS675	1.70	2 1/2 1 3/8 1 1/4
3/4	.699-.723	ALS700	1.70	2 1/2 1 3/8 1 1/4
3/4	.724-.748	ALS725	1.70	2 1/2 1 3/8 1 1/4
1	.749-.773	ALS750	2.50	2 1/2 1 3/8 1 1/2
1	.774-.798	ALS775	2.50	2 1/2 1 3/8 1 1/2
1	.799-.823	ALS800	2.50	2 1/2 1 3/8 1 1/2
1	.824-.848	ALS825	2.50	2 1/2 1 3/8 1 1/2
1	.849-.873	ALS850	2.50	2 1/2 1 3/8 1 1/2
1	.874-.898	ALS875	2.50	2 1/2 1 3/8 1 1/2
1	.899-.923	ALS900	2.50	2 1/2 1 3/8 1 1/2
1	.924-.948	ALS925	2.50	2 1/2 1 3/8 1 1/2
1	.949-.973	ALS950	2.50	2 1/2 1 3/8 1 1/2
1 1/4	.974-.998	ALS975	4.00	2 1/2 1 3/8 1 3/4
1 1/4	.999-1.023	ALS1000	4.00	2 1/2 1 3/8 1 3/4
1 1/4	1.024-1.048	ALS1025	4.00	2 1/2 1 3/8 1 3/4
1 1/4	1.049-1.073	ALS1050	4.00	2 1/2 1 3/8 1 3/4
1 1/4	1.074-1.101	ALS1075	4.00	2 1/2 1 3/8 1 3/4

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

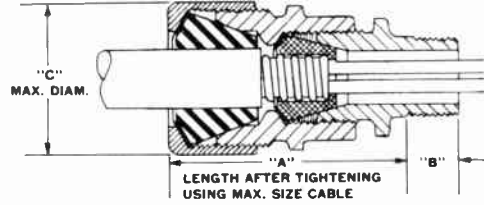
CROUSE-HINDS TERMINATORS

CGFJ SERIES TERMINATORS

For Jacketed Interlocked Armored Cables
and Simplex "C-L-X" or General Cable "CCW" Cables
For Use in WET Locations



With Neoprene Bushing For Watertight Seal and
Lead Bushing For Armor Grip



Drawing shows jacketed cable. For "C-L-X"
and "CCW" cables select terminator so that outside
diameter of armor is within the Cable O.D. Range
of the terminator.

Male Thread Size	Cable O.D. Range	Armor O.D. Range	Form*	Cat. No.	List Each	Dimensions, Inches		
						A	B	C
1/2	.625—.875	.500—.625	C-B	CGFJ1101	\$ 2.60	2 7/8	3/4	1 5/8
3/4	.625—.875	.625—.813	C	CGFJ211	3.70	3 3/8	3/4	1 3/4
3/4	.750—1.000	.625—.813	C	CGFJ221	3.70	3 3/8	3/4	1 3/4
3/4	.750—1.000	.813—1.000	C	CGFJ222	3.70	3 3/8	3/4	1 3/4
1	.625—.875	.625—.813	C	CGFJ311	4.50	3 3/8	1 1/8	1 3/4
1	.750—1.000	.625—.813	C	CGFJ321	4.50	3 3/8	1 1/8	1 3/4
1	.750—1.000	.813—1.000	C	CGFJ322	4.50	3 3/8	1 1/8	1 3/4
1	.875—1.188	.625—.813	D-C	CGFJ331	4.50	4 1/8	1 1/8	2 1/4
1	1.000—1.375	.813—1.000	D-C	CGFJ342	4.50	4 1/8	1 1/8	2 1/4
1 1/4	1.000—1.375	1.000—1.375	D	CGFJ443	6.80	4 1/2	1 1/8	2 1/4
1 1/2	1.375—1.625	1.000—1.375	E-D	CGFJ513	10.50	5 1/8	1 1/8	3 1/4
2	1.375—1.625	1.375—1.875	E	CGFJ614	12.80	6	1	3 1/4
2	1.625—1.875	1.375—1.875	E	CGFJ624	12.80	6	1	3 1/4
2	1.875—2.188	1.375—1.875	F-E	CGFJ634	12.80	5 7/8	1	3 3/8
2 1/2	1.875—2.188	1.875—2.188	F	CGFJ715	15.90	6	1 1/8	3 3/8
2 1/2	2.188—2.500	1.875—2.188	F	CGFJ725	15.90	6	1 1/8	3 3/8
2 1/2	2.188—2.500	2.188—2.500	F	CGFJ726	15.90	6	1 1/8	3 3/8
3	1.875—2.188	1.875—2.188	F	CGFJ815	19.20	6	1 1/2	3 3/8
3	2.188—2.500	1.875—2.188	F	CGFJ825	19.20	6	1 1/2	3 3/8
3	2.188—2.500	2.188—2.500	F	CGFJ826	19.20	6	1 1/2	3 3/8
3	2.500—3.000	2.188—2.500	G-F	CGFJ836	19.20	7 1/8	1 1/2	5 1/2
3 1/2	2.500—3.000	2.500—3.000	G	CGFJ917	24.00	7 7/8	1 1/8	5 1/2
3 1/2	3.000—3.500	2.500—3.000	G	CGFJ927	24.00	7 7/8	1 1/8	5 1/2
3 1/2	3.000—3.500	3.000—3.500	G	CGFJ928	24.00	7 7/8	1 1/8	5 1/2
4	2.500—3.000	2.500—3.000	G	CGFJ1017	31.80	7 7/8	1 5/8	5 1/2
4	3.000—3.500	2.500—3.000	G	CGFJ1027	31.80	7 7/8	1 5/8	5 1/2
4	3.000—3.500	3.000—3.500	G	CGFJ1028	31.80	7 7/8	1 5/8	5 1/2
4	3.500—4.250	3.000—3.500	H-G	CGFJ1018	31.80	8 7/8	1 5/8	6 5/8
5	3.500—4.250	3.500—4.250	H	CGFJ1219	36.00	9 5/8	1 3/4	6 5/8

*All parts of the same form may be used together in an assembly. Where there are two form letters, the first applies to the nut and Neoprene bushing, and the second applies to the lead bushing and body. Where there is one form letter it applies to all parts.

Bulkhead Kit: Following suffixes may be added to above catalog numbers: **S589**—provides locknut and insulating bushing. **S590**—provides flat gasket, locknut and insulating bushing for sealing around clearance hole in bulkhead or box. **S607**—provides "O" ring gasket, locknut and insulating bushing for use where bulkhead or box surface is rough.

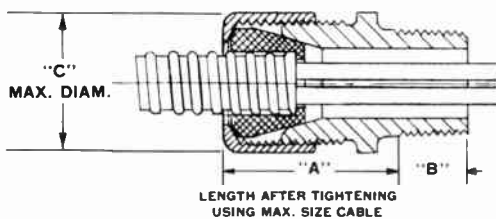
Terminators for other types of cable are available. Ask for Crouse-Hinds Bulletin 2748.

CGF SERIES TERMINATORS

For Unjacketed Armored Cable
For Use in DRY Locations



With Lead Bushing For Armor Grip



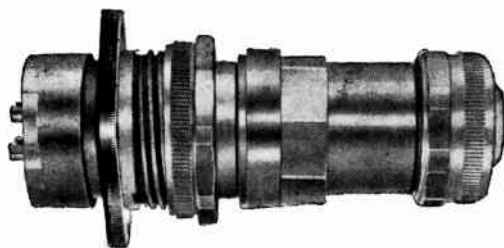
Male Thread Size	Armor O.D. Range	Form*	Cat. No.	List Each	Dimension, Inches		
					A	B	C
1/2	.500—.625	B	CGF101	\$1.50	1 3/8	3/4	1 1/8
3/4	.625—.813	C	CGF21	2.60	1 3/4	3/4	1 5/8
3/4	.813—1.000	C	CGF22	2.60	1 3/4	3/4	1 5/8
1	.625—.813	C	CGF31	3.40	1 3/4	1 1/8	1 3/4
1	.813—1.000	C	CGF32	3.40	1 3/4	1 1/8	1 3/4
1 1/4	1.000—1.375	D	CGF43	4.50	2 3/8	1 1/8	2 1/4
1 1/2	1.000—1.375	D	CGF53	6.40	2 3/8	1 1/8	2 1/4
2	1.375—1.875	E	CGF64	7.00	3 1/4	1	3 1/4
2 1/2	1.875—2.188	F	CGF75	8.60	3 1/4	1 1/8	3 3/8
2 1/2	2.188—2.500	F	CGF76	8.60	3 1/4	1 1/8	3 3/8
3	1.875—2.188	F	CGF85	10.40	3 1/4	1 1/2	3 3/8
3	2.188—2.500	F	CGF86	10.40	3 1/4	1 1/2	3 3/8
3 1/2	2.500—3.000	G	CGF97	12.70	4 1/4	1 1/8	5 1/2
3 1/2	3.000—3.500	G	CGF98	12.70	4 1/4	1 1/8	5 1/2
4	2.500—3.000	G	CGF107	17.80	4 1/4	1 5/8	5 1/2
4	3.000—3.500	G	CGF108	17.80	4 1/4	1 5/8	5 1/2
5	3.500—4.250	H	CGF129	24.00	5	1 3/4	6 5/8

Bulkhead Kit: Following suffix may be added to above catalog numbers: **S589**—provides locknut and insulating bushing.

*All parts of the same form may be used together in an assembly.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10% —\$300 and OVER, 26%

CROUSE-HINDS ARK-trol® ELECTRICAL CONNECTORS



The complete line of ARK-trol electrical connectors meets and exceeds the most rigid industrial and military standards for environment-resistant plugs and receptacles. ARK-trol connectors provide the ultimate in performance under adverse environmental conditions.

Type RPE environmental ARK-trol connectors are moisture-proof, shock-insulated, dust-tight, and corrosion-resistant.

Type RPC circuit-breaking ARK-trol connectors have all the features of RPE plus ability to break circuits under full rated load.

"Stack" construction, proved superior to all other types, is employed: a silicone wafer with the resilient characteristics of rubber is located between the two insulators, providing a cushion against mechanical damage.

ARK-trol connectors are highly resistant to alkalis, strong caustics, acids, petroleum base and organic solvents. They operate in a temperature range of -80°F. to +225°F., and withstand pressure of 300 psi internal. ARK-trol plugs and receptacles exceed military specifications for pressure tightness, dust-resistance, vibration, humidity, and moisture.

Another feature is positive polarization; an exclusive feature of ARK-trol connectors. Assembly can be made in one way, the correct way only. A wide choice of contact configurations is available to suit all types of installations. Alternate polarity key positions, in addition to providing a wider scope of polarity arrangements or locations, eliminate the possibility of human error in assembling the unit, and resultant equipment damage and personal danger.

Design features and construction characteristics of the ARK-trol line have resulted in extremely compact, yet fully efficient connectors. All aluminum alloy components are high strength impact extrusions, offering greatest accuracy, strength, uniformity, and interchangeability. The aluminum shell has a strength approaching that of steel, yet it weighs less than one-third as much.

For complete information and listings of ARK-trol electrical connectors, see Crouse-Hinds Bulletin 2711 "ARK-trol Electrical Connectors."

CROUSE-HINDS ARK-trol CIRCUIT BREAKING RECEPTACLES



Style	Hub Size	RPC Square Flanged Receptacle and Junction Box		RPC Square Flanged Receptacle, Dust Cap and Junction Box		RPC Square Flanged Receptacle		RPC Square Flanged Receptacle and Dust Cap	
		List	Each	List	Each	List	Each	List	Each
20 Amperes, 480 Volts A.C., 125 Volts D.C.									
		RPC217-127-		RPC 217-014-		RPC 217-127-		RPC 217-014-	
5-Wire,	1/2	S08N-ARE 23	\$23.00	S08N-ARE 23	\$27.00	S08N	\$16.00	S08N	\$20.00
5-Pole	3/4	S08N-ARE 33	23.20	S08N-ARE 33	27.20	S08N		S08N	
4-Wire,	3/4	S09A-ARE 23	25.00	S09A-ARE 23	29.00	S09A	18.00	S09A	23.00
5-Pole	1	S09A-ARE 33	25.20	S09A-ARE 33	29.20	S09A		S09A	
30 Amperes, 480 Volts A.C., 125 Volts D.C.									
3-Wire,	3/4	S01N-ARE 23	21.00	S01N-AR7 23	27.00	S01N	15.00	S01N	20.00
3-Pole	1	S01N-ARE 33	21.20	S01N-ARE 33	27.20	S01N		S01N	
4-Wire,	3/4	S03N-ARE 23	23.00	S03N-ARE 23	27.00	S03N	16.00	S03N	20.00
4-Pole	1	S03N-ARE 33	23.20	S03N-ARE 33	27.20	S03N		S03N	
2-Wire,	3/4	S02A-ARE 23	24.00	S02A-ARE 23	28.00	S02A	17.00	S02A	21.00
3-Pole	1	S02A-ARE 33	24.20	S02A-ARE 33	28.20	S02A		S02A	
3-Wire,	3/4	S04A-ARE 23	24.00	S04A-ARE 23	28.00	S04A	17.00	S04A	21.00
3-Pole	1	S04A-ARE 33	24.20	S04A-ARE 33	28.20	S04A		S04A	
4-Wire,	3/4	S17A-ARE 23	23.00	S17A-ARE 23	32.00	S17A	20.00	S17A	26.00
5-Pole	1	S17A-ARE 33	23.20	S17A-ARE 33	32.20	S17A		S17A	
30 Amperes, 600 Volts A.C., 125 Volts D.C.									
2-Wire,	3/4	S04A-ARE 23	25.00	S04A-ARE 23	30.00	S04A	18.00	S04A	24.00
3-Pole	1	S04A-ARE 33	25.20	S04A-ARE 33	30.20	S04A		S04A	
60 Amperes, 480 Volts A.C., 125 Volts D.C.									
4-Wire,	1 1/4	S09A-ARE 46	35.00	S09A-ARE 46	40.00	S09A	25.00	S09A	31.00
5-Pole	1 1/2	S09A-ARE 56	35.20	S09A-ARE 56	40.20	S09A		S09A	
60 Amperes, 600 Volts A.C., 125 Volts D.C.									
2-Wire,	1 1/4	S07A-ARE 46	32.00	S07A-ARE 46	39.00	S07A	24.00	S07A	30.00
3-Pole	1 1/2	S07A-ARE 56	32.20	S07A-ARE 56	39.20	S07A		S07A	
3-Wire,	1 1/4	S08A-ARE 46	34.00	S08A-ARE 46	40.00	S08A	25.00	S08A	30.00
4-Pole	1 1/2	S08A-ARE 56	34.20	S08A-ARE 56	40.20	S08A		S08A	

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS ARK-trol CIRCUIT BREAKING PLUGS, CORD CONNECTOR RECEPTACLES AND BULKHEAD RECEPTACLES



Style	Cable Range	RPC Plug	List Each	RPC Cord Connector	List Each	RPC Bulkhead Receptacle	List Each
20 Amperes, 480 Volts A.C., 125 Volts D.C.							
5-Wire,	.250-.625	RPC117-150 P08N	\$18.00	RPC317-160 S08N	\$19.00	RPC317-006 S08N	\$16.00
5-Pole	.625-.875	RPC117-151 P08N	18.00	RPC317-161 S08N	19.00		
4-Wire,	.250-.625	RPC117-150 P09A	20.00	RPC317-160 S09A	21.00	RPC317-006 S09A	18.00
5-Pole	.625-.875	RPC117-151 P09A	20.00	RPC317-161 S09A	21.00		
30 Amperes, 480 Volts A.C., 125 Volts D.C.							
3-Wire,	.250-.625	RPC117-150 P01N	18.00	RPC317-160 S01N	18.00	RPC317-006 S01N	16.00
3-Pole	.625-.875	RPC117-151 P01N	18.00	RPC317-161 S01N	18.00		
4-Wire,	.250-.625	RPC117-150 P03N	18.00	RPC317-160 S03N	19.00	RPC317-006 S03N	16.00
4-Pole	.625-.875	RPC117-151 P03N	18.00	RPC317-161 S03N	19.00		
2-Wire,	.250-.625	RPC117-150 P02A	19.00	RPC317-160 S02A	20.00	RPC317-006 S02A	17.00
3-Pole	.625-.875	RPC117-151 P02A	19.00	RPC317-161 S02A	20.00		
3-Wire,	.250-.625	RPC117-150 P04A	19.00	RPC317-160 S04A	20.00	RPC317-006 S04A	17.00
4-Pole	.625-.875	RPC117-151 P04A	19.00	RPC317-161 S04A	20.00		
4-Wire,	.625-1.000	RPC121-151 P17A	27.00	RPC321-161 S17A	29.00		
5-Pole							
30 Amperes, 600 Volts, A.C., 125 Volts D.C.							
2-Wire,	.250-.625	RPC121-150 P04A	25.00	RPC321-160 S04A	26.00	RPC321-006 S04A	19.00
3-Pole	.625-1.000	RPC121-151 P04A	25.00	RPC321-161 S04A	26.00		
60 Amperes, 480 Volts A.C., 125 Volts D.C.							
4-Wire,	.875-1.375	RPC133-153 P09A	37.00	RPC333-163 S09A	37.00	RPC333-006 S09A	28.00
5-Pole							
60 Amperes, 600 Volts A.C., 125 Volts D.C.							
2-Wire,	.875-1.375	RPC133-153 P07A	37.00	RPC333-163 S07A	35.00	RPC333-006 S07A	27.00
3-Pole							
3-Wire,	.875-1.375	RPC133-153 P08A	37.00	RPC333-163 S08A	36.00	RPC333-006-S08A	27.00
4-Pole							

CROUSE-HINDS PLUGS AND RECEPTACLES

TYPES CES AND CESD DELAYED ACTION ARKTITE PLUG RECEPTACLES

Explosion-Proof
Class I, Group D*

Includes Body, Receptacle, and Receptacle Housing—Takes Type CPH Plugs

Style 2—Grounded Through Extra Pole and Shell

Interchangeability: Types AP and APJ Arktite circuit-breaking plugs cannot be used with types CES and CESD delayed action Arktite receptacles. Type CPH delayed action Arktite plugs, however, can be used with regular style 2 Arktite receptacles of the same rating and pole arrangement. This fact may be utilized in a plant having hazardous and non-hazardous locations as follows:

Types CES or CESD delayed action receptacles can be installed in the hazardous areas.

Regular Style 2 Arktite receptacles rated 30 or 60 amperes, 2-wire, 3-pole or 3-wire, 4-pole can be installed in non-hazardous areas.

Portable equipment suitable for use in the hazardous areas may be equipped with type CPH delayed action plugs. Such equipment may then be used anywhere in the plant, including the non-hazardous areas.

Portable equipment not suitable for use in such areas may be equipped with regular types AP and APJ Arktite plugs and such equipment can then be used in any non-hazardous location in the plant, but there is complete assurance that it cannot be connected to a receptacle in the hazardous areas.



Type CES has three hubs, one on each side and one at the top, and two threaded pipe plugs.



Type CESD has vertical through feed hubs and one threaded pipe plug. There is a threaded opening in the top with a cover which may be removed to facilitate pulling wires.

Size Hubs	Circuit	Phases	Max. H.P.	Max. Amps.	Volts at 60 Cy. A.C.	Cat. No.	List Each
3/4	{2-W. } {3-P. }	1	1 1/2	7 30	460 } 115 to 230	2213	\$52.00
					230 }		
3/4	{3-W. } {4-P. }	3	3	7 30	460 } 115 to 230	2214	56.00
					230 }		
1 1/4	{2-W. } {3-P. }	1	3	30	460 } 115 to 230	4233	65.00
					230 }		
1 1/4	{3-W. } {4-P. }	3	5	30	460 } 115 to 230	4234	73.00
					230 }		

TYPE CPH PLUGS

For Types CES and CESD Receptacle Equipment Furnished with Mechanical Cable Grip and Rubber Bushing



Max. H.P.	Max. Amps.	Volts at 60 Cy. A.C.	Diameter Cable	Cat. No.	List Each
2-W., 3-P.— 1 Ph.					
1/2	7	460 } 115 to 230	.375 to .875	7713	\$28.00
			.875 to 1.375		
3-W., 4-P— 3 Ph.					
1	7	460 } 115 to 230	.375 to .875	7714	29.00
			.875 to 1.375		
2-W., 3P.— 1 Ph.					
3	30	460 } 115 to 230	.500 to .875	7733	32.00
			.875 to 1.375		
3-W., 4-P— 3 Ph.					
5	30	460 } 115 to 230	.500 to .875	7734	35.00
			.875 to 1.375		

*Type CES receptacles and type CPH plugs are also suitable for Class I, Group C locations.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS ARKITE PLUGS AND RECEPTACLES TYPE CPS DELAYED ACTION ARKITE PLUG RECEPTACLES†

Explosion-Proof

Class I, Groups C and D (NEMA Type 7CD)

Includes Form 10 Body and Receptacle—Takes Type CPP Plugs

2-Wire, 3-Pole—20-Ampere or 1 H.P., 125-250-Volt, 60-Cycle A.C., 20-A., 18-V., D.C.



Dead End Through-Feed "L"



"T" "X"

Size Hub	Complete		Body Only	
	Cat. No.	List Each	Cat. No.	List Each
		Dead End		
1/2	CPS14-120	\$28.60	CPS120	\$2.60
3/4	CPS14-20	28.70	CPS20	2.70
		Through-Feed		
1/2	CPS14-121	28.90	CPS121	2.90
3/4	CPS14-21	29.10	CPS21	3.10
		"L"		
1/2	CPS14-122	28.90	CPS122	2.90
3/4	CPS14-22	29.10	CPS22	3.10
		"T"		
1/2	CPS14-123	29.10	CPS123	3.10
3/4	CPS14-23	29.40	CPS23	3.40
		"X"		
1/2	CPS14-124	29.30	CPS124	3.30
3/4	CPS14-24	29.70	CPS24	3.70

Receptacle And Housing

For Type CPS Receptacle Equipment

20-Ampere or 1-H.P.
125-250-Volt, 60-Cycle A.C.,
20-A., 18-V., D.C.
2-Wire, 3-Pole



Style Cat. No. List Each
With Spring Door CPS14-R \$26.00

†Non-Interchangeable receptacles and CPP plugs can be furnished. Information on request.

Explosion-Proof

Class I, Groups C and D (NEMA Type 7CD)

Receptacle Unit Includes Receptacle with Sealed Housing having a Spring Door which also Controls the Delayed Action Feature

Takes Type CPP Plugs



CPS Single-Gang CPS Two-Gang

Dead End Cat. No.	List Each	Size Hub	Through Feed	
			Cat. No.	List Each
20 A., 1 H.P. 125-250 V., 60 Cycle, A.C.; 20 A., 18 V., D.C. 2-Wire, 3-Pole				
Single-Gang				
CPS152-101	\$28.60	1/2	CPS152-111	\$29.00
CPS152-201	28.80	3/4	CPS152-211	29.40
CPS152-301	29.00	1	CPS152-311	29.80
Two-Gang				
CPS152-102	\$57.50	1/2	CPS152-112	\$58.00
CPS152-202	58.00	3/4	CPS152-212	58.50
CPS152-302	58.50	1	CPS152-312	59.00

Dead End Cat. No.	List Each	Size Hub	Through Feed	
			Cat. No.	List Each
30 A., 1 1/2 H.P. 125-250 V., 60 Cycle, A.C. 7A., 1/2 H.P., 460 V., A.C., 60 Cycle; 2-Wire, 3-Pole				
Single-Gang				
CPS532-101	\$48.60	1/2	CPS532-111	\$49.00
CPS532-201	48.80	3/4	CPS532-211	49.40
CPS532-301	49.00	1	CPS532-311	49.80
Two-Gang				
CPS532-102	\$97.50	1/2	CPS532-112	\$98.00
CPS532-202	98.00	3/4	CPS532-212	98.50
CPS532-302	98.50	1	CPS532-312	99.00

Dead End Cat. No.	List Each	Size Hub	Through Feed	
			Cat. No.	List Each
30 A., 3 H.P., 125-250 V., 60 Cycle, A.C. 7 A., 1 H.P., 460 V., A.C., 60 Cycle; 3-Wire, 4-Pole				
Single-Gang				
CPS732-101	\$51.60	1/2	CPS732-111	\$52.00
CPS732-201	51.80	3/4	CPS732-211	52.40
CPS732-301	52.00	1	CPS732-311	52.80
Two-Gang				
CPS732-102	103.50	1/2	CPS732-112	104.00
CPS732-202	104.00	3/4	CPS732-212	104.50
CPS732-302	104.50	1	CPS732-312	105.00

Dead End Cat. No.	List Each	Size Hub	Through Feed	
			Cat. No.	List Each
30 A., 3 H.P., 125-250 V., 60 Cycle, A.C. 7 A., 1 H.P., 460 V., A.C., 60 Cycle; 3-Wire, 4-Pole				
Single-Gang				
CPS732-101	\$51.60	1/2	CPS732-111	\$52.00
CPS732-201	51.80	3/4	CPS732-211	52.40
CPS732-301	52.00	1	CPS732-311	52.80
Two-Gang				
CPS732-102	103.50	1/2	CPS732-112	104.00
CPS732-202	104.00	3/4	CPS732-212	104.50
CPS732-302	104.50	1	CPS732-312	105.00

Dead End Cat. No.	List Each	Size Hub	Through Feed	
			Cat. No.	List Each
30 A., 3 H.P., 125-250 V., 60 Cycle, A.C. 7 A., 1 H.P., 460 V., A.C., 60 Cycle; 3-Wire, 4-Pole				
Single-Gang				
CPS732-101	\$51.60	1/2	CPS732-111	\$52.00
CPS732-201	51.80	3/4	CPS732-211	52.40
CPS732-301	52.00	1	CPS732-311	52.80
Two-Gang				
CPS732-102	103.50	1/2	CPS732-112	104.00
CPS732-202	104.00	3/4	CPS732-212	104.50
CPS732-302	104.50	1	CPS732-312	105.00

†Non-Interchangeable receptacles and CPP plugs can be furnished. Information on request.

TYPE CPP PLUGS*

For Types CPS and EHS Receptacle Units
Furnished with Cable Grip and Rubber Bushing



Cat. No.	List Each	Dia. Cable	Aluminum Handle			
			Plain		Polished	
Cat. No.	List Each	Dia. Cable	Cat. No.	List Each	Cat. No.	List Each
20 A., 1 H.P., 125-250 V., 60 Cycle, A.C.; 20 A., 18 V., D.C. 2-Wire 3-Pole						
CPP-312	\$14.00	.250-.375	316	\$13.00	3156	\$15.00
412	14.00	.375-.500	416	13.00	4156	15.00
512	14.00	.500-.625	516	13.00	5156	15.00

Cat. No.	List Each	Dia. Cable	Aluminum Handle			
			Plain		Polished	
Cat. No.	List Each	Dia. Cable	Cat. No.	List Each	Cat. No.	List Each
30 A., 1 1/2 H.P., 115-230 V., 60 Cycle, A.C. 7A., 1/2 H.P., 460 V., A.C., 60 Cycle; 2-Wire, 3-Pole						
.....	.375-.500	4553	\$23.00	453	\$28.00	
.....	.500-.625	5553	23.00	553	28.00	
.....	.625-.750	6553	23.00	653	28.00	
.....	.750-.875	7553	23.00	753	28.00	
30 A., 3 H.P., 115-230 V., 60 Cycle, A.C. 7A., 1 H.P., 460 V., A.C., 60 Cycle; 3-Wire, 4-Pole						
.....	.375-.500	4752	\$25.00	472	\$29.00	
.....	.500-.625	5752	25.00	572	29.00	
.....	.625-.750	6752	25.00	672	29.00	
.....	.750-.875	7752	25.00	772	29.00	

*Non-Interchangeable receptacles and CPP plugs can be furnished. Information on request.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS ARKTITE PLUGS AND RECEPTACLES

Weather Resistant—Raintight*

20, 30, and 60-Ampere—250 Volts D.C., 600 Volts A.C.

Style 1—Grounded Through Shell.—Style 2—Grounded Through Extra Pole and Shell.

Type ARE Receptacle Equipment†

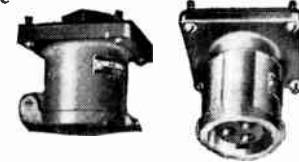


Type APJ Plugs

Receptacles will take any of the plugs grouped in the bracket opposite the receptacle listings.



Type AR Receptacle Housings



Description	Spring Door		Plain		With Mechanical Cable Grip and Rubber Bushing‡			Spring Door		Plain	
	Cat. No.	List Each	Cat. No.	List Each	Dia. Cable	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each

For AR Series, Form B
20-Ampere—Style 1*

2-W, 1/2	ARE2211	\$13.00	ARE2231	\$11.50	{.250- .500	APJ2251	\$13.00	AR221	\$11.00	AR223	\$9.50
2-P* 3/4	ARE2212	13.20	ARE2232	11.70		{.500- .875	APJ2253					13.00

For AR Series, Form B
30-Ampere—Style 1

2-W, 1/2	ARE3211	15.00	ARE3231	14.00	{.500- .875	APJ3253	15.00	AR321	13.00	AR323	12.00
2-P, 3/4	ARE3212	15.20	ARE3232	14.20		{.875-1.375	APJ3255					15.00
3-W, 3/4	ARE3312	16.20	ARE3332	15.20	{.500- .875	APJ3353	16.00	AR331	14.00	AR333	13.00
3-P, 1	ARE3313	16.40	ARE3333	15.40		{.875-1.375	APJ3355					16.00
4-W, 3/4	ARE3412	18.20	ARE3432	16.20	{.500- .875	APJ3453	18.00	AR341	16.00	AR343	14.00
4-P, 1	ARE3413	18.40	ARE3433	16.40		{.875-1.375	APP3455					18.00
5-W, 5-P, 1	ARE3513	20.40	ARE3533	19.40	.500- .875	APJ3553	20.00	AR351	18.00	AR353	17.00

For AR Series, Form B
30-Ampere—Style 2

2-W, 3/4	ARE3322	18.20	ARE3342	17.20	{.500- .875	APJ3363	18.00	AR332	16.00	AR334	15.00
3-P, 1	ARE3323	18.40	ARE3343	17.40		{.875-1.375	APJ3365					18.00
3-W, 3/4	ARE3422	20.20	ARE3442	18.20	{.500- .875	APJ3463	20.00	AR342	18.00	AR344	16.00
4-P, 1	ARE3423	20.40	ARE3443	18.40		{.875-1.375	APJ3465					20.00
4-W, 5-P, 1	ARE3523	23.40	ARE3543	22.40	.500- .875	APJ3563	24.00	AR352	21.00	AR354	20.00

For AR and AJ Series, Form C
60-Ampere—Style 1

2-W, 1	ARE6213	23.30	ARE6233	21.30	{.500- .875	APJ6253	20.00	AR621	20.00	AR623	18.00
2-P, 1 1/4	ARE6214	23.50	ARE6234	21.50		{.875-1.375	APJ6255					20.00
3-W, 1	ARE6313	26.30	ARE6333	28.30	{.500- .875	APJ6353	22.00	AR631	23.00	AR633	25.00
3-P, 1 1/4	ARE6314	26.50	ARE6334	28.50		{.875-1.375	APJ6355					22.00
4-W, 1 1/4	ARE6414	30.50	ARE6434	28.50	{.500- .875	APJ6453	24.00	AR641	27.00	AR643	25.00
4-P, 1 1/2	ARE6415	30.70	ARE6435	28.70		{.875-1.375	APJ6455					24.00

For AR and AJ Series, Form C
60-Ampere—Style 2

2-W, 1	ARE6323	28.30	ARE6343	26.30	{.500- .875	APJ6363	25.00	AR632	25.00	AR634	23.00
3-P, 1 1/4	ARE6324	28.50	ARE6344	26.50		{.875-1.375	APJ6365					25.00
3-W, 1 1/4	ARE6424	33.50	ARE6444	30.50	{.500- .875	APJ6463	27.00	AR642	30.00	AR644	27.00
4-P, 1 1/2	ARE6425	33.70	ARE6445	30.70		{.875-1.375	APJ6465					27.00

*20-Ampere, 2-Pole plugs and receptacles have binding screw terminals. All others have soldering terminals for line conductors and a pressure type terminal for the grounding conductor.

†Where other hub arrangements are desired, type AR receptacle housings can be used with bodies listed on another page.

‡Where non-watertight plugs are required, add Suffix NB to the above catalog numbers. The set of rubber bushings will then be omitted at the following reductions in list prices: 20-A., \$0.60; 30-A., \$1.00; 60-A., \$1.00. *Spring door housing only, when downwardly inclined.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

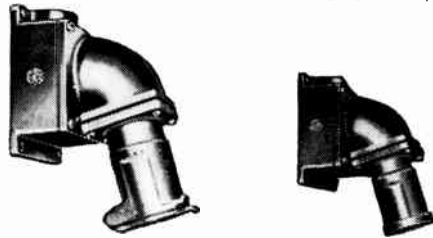
CROUSE-HINDS ARKTITE PLUGS AND RECEPTACLES

Weather Resistant—Raintight*

60 and 100-Ampere—250 Volts D.C., 600 Volts A.C.

Style 1—Grounded Through Shell.— Style 2—Grounded Through Extra Pole and Shell.

Type AREA Receptacle Equipment†

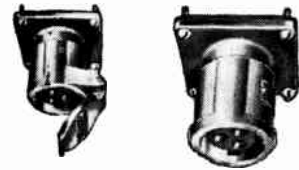


Type APJ Plugs

Receptacles will take any of the plugs grouped in the bracket opposite the receptacle listings.



Type AR Receptacle Housings



Description	Spring Door		Plain		With Mechanical Cable Grip and Rubber Bushing‡		List Each	Spring Door		Plain	
	Cat. No.	List Each	Cat. No.	List Each	Dia Cable	Cat. No.		Cat. No.	List Each	Cat. No.	List Each

For AR and AJ Series, Form C

60-Ampere—Style 1													
	AREA-	AREA-											
2-W, 1	6213	\$36.00	6233	\$34.00	{	.500-	.875	APJ6253	\$20.00	} AR621	\$20.00	AR623	\$18.00
2-P, 1 1/4	6214	36.20	6234	34.20		.875-1.375	APJ6255	20.00					
3-W, 1	6313	39.00	6333	36.00	{	.500-	.875	APJ6353	22.00	} AR631	23.00	AR633	25.00
3-P, 1 1/4	6314	39.20	6334	36.20		.875-1.375	APJ6355	22.00					
4-W, 1 1/4	6414	43.20	6434	41.20	{	.500-	.875	APJ6453	24.00	} AR641	27.00	AR643	25.00
4-P, 1 1/2	6415	43.40	6435	41.40		.875-1.375	APJ6455	24.00					

For AR and AJ Series, Form C

60-Ampere—Style 2													
	AREA-	AREA-											
2-W, 1	6323	41.00	6343	39.00	{	.500-	.875	APJ6363	25.00	} AR632	25.00	AR634	23.00
3-P, 1 1/4	6324	41.20	6344	39.20		.875-1.375	APJ6365	25.00					
3-W, 1 1/4	6424	46.20	6444	43.20	{	.500-	.875	APJ6463	27.00	} AR642	30.00	AR644	27.00
4-P, 1 1/2	6425	46.40	6445	43.40		.875-1.375	APJ6465	27.00					

For AJ Series, Form D

100-Ampere—Style 1												
	AREA-	AREA-										
2-W, 1 1/4	10214	43.20	10234	40.20	{	.875-1.375	APJ10255	31.00	} AR1021	27.00	AR1023	24.00
2-P, 1 1/2	10215	43.40	10235	40.40		1.375-1.875	APJ10257	31.00				
3-W, 1 1/4	10314	45.20	10334	42.20	{	.875-1.375	APJ10355	34.00	} AR1031	29.00	AR1033	26.00
3-P, 1 1/2	10315	45.40	10335	42.40		1.375-1.875	APJ10357	34.00				
4-W, 1 1/2	10415	50.40	10435	46.40	{	.875-1.375	APJ10455	38.00	} AR1041	34.00	AR1043	30.00
4-P, 2	10416	50.60	10436	46.60		1.375-1.875	APJ10457	38.00				

For AJ Series, Form D

100-Ampere—Style 2												
	AREA-	AREA-										
2-W, 1 1/4	10324	49.20	10344	45.20	{	.875-1.375	APJ10365	37.00	} AR1032	32.00	AR1034	29.00
3-P, 1 1/2	10325	49.40	10345	45.40		1.375-1.875	APJ10367	37.00				
3-W, 1 1/2	10425	53.40	10445	50.40	{	.875-1.375	APJ10465	41.00	} AR1042	37.00	AR1044	34.00
4-P, 2	10426	53.60	10446	50.60		1.375-1.875	APJ10467	41.00				

†Type AREA are square, and can therefore be mounted with the hub at top, bottom, right or left. When through-feed hubs or other adapters are desired, type AR receptacle housings can be used with bodies of AR and AJ series listed on another page.

‡Where non-watertight plugs are required, add Suffix NB to the above catalog numbers. The set of rubber bushings will then be omitted at the following reductions in list prices: 60-A., \$1.00; 100-A., \$1.40.

*Spring door housing only, when downwardly inclined.

TYPE CPK CAPS FOR ARKTITE PLUGS

	Amp. Rating of Plug	No. of Poles	Cat. No.	List Each
	30	2, 3, or 4	CPK13	\$3.80
	30	5	CPK32	4.70
	60	2 or 3	CPK32	4.70
	60	4	CPK34	4.70
	100	2 or 3	CPK62	6.00
	100	4	CPK64	6.00
	200	2 or 3	CPK102	11.00
	200	4	CPK104	12.00

RUBBER BUSHINGS

For Types APJ and CPH Arktite Plugs				
Ampere Ratings of Plugs	Cable Range of Each Bushing	Cat. No.	List Each	
20	.250— .375	Bush 93	\$	.30
	.375— .500	Bush 94		.30
30 (CPH Only)*	.375— .500	Bush 54		.50
	.500— .625	Bush 95		.50
	.625— .750	Bush 96		.50
20, 30, and 60	.750— .875	Bush 97		.50
	.875—1.000	Bush 98		.70
	1.000—1.1875	Bush 99		.70
	1.1875—1.375	Bush 911		.70
30, 60, and 100	1.375—1.625	Bush 913		1.10
	1.625—1.875	Bush 915		1.10

*The bushings covering the remainder of the cable range (.500 to .875) are Bush 85, 96, and 97 listed above.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS ARKITE PLUGS AND RECEPTACLES

Weather Resistant—(Raintight)

200-Ampere

250 Volts D.C., 600 Volts A.C.

Type AREA
Receptacle
Equipment†

Type AP Plugs

Type AR
Receptacle
Housings

Receptacles will take any of the plugs grouped in the bracket opposite the receptacle listings.



Description	Clamp Cover		With Mechanical Cable Grip and Rubber Bushing			Clamp Cover	
	Cat. No.	List Each	Dia. Cable Inches	Cat. No.	List Each	Cat. No.	List Each
200-Ampere							
For AJ Series, Form E							
Style 1—Grounded Through Shell							
2-Wire, } 2-Pole }	1½ 2	AREA20215 AREA20216	\$ 92.00 92.40	{ .875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20255 AP20257 AP20258	\$ 63.00 63.00 63.00	AR2021 \$63.00
3-Wire, } 3-Pole }	1½ 2 2½	AREA20315 AREA20316 AREA20317	94.00 94.20 94.40	{ .875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20355 AP20357 AP20358	65.00 65.00 65.00	AR2031 65.00
4-Wire, } 4-Pole }	3 2½	AREA20416 AREA20417	100.20 100.40	{ .875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20455 AP20457 AP20458	71.00 71.00 71.00	AR2041 71.00
200-Ampere							
For AJ Series, Form E							
Style 2—Grounded Through Extra Pole and Shell							
2-Wire, } 3-Pole }	1½ 3 2½	AREA20325 AREA20326 AREA20327	\$ 98.00 98.20 99.00	{ .875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20365 AP20367 AP20368	\$ 69.00 69.00 69.00	AR2032 \$69.00
3-Wire, } 4-Pole }	1½ 2 2½	AREA20425 AREA20426 AREA20427	104.00 104.20 104.60	{ .875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20465 AP20467 AP20468	75.00 75.00 75.00	AR2042 75.00

†Type AREA are square and can therefore be mounted with the hub at the top, bottom, right or left.

AR SERIES BODIES

AR Series Take Arkrite Receptacle Housings

Size	Form B Takes 20 and 30- Amp. Housings		Form C Takes 60-Amp. Housings		Size	Form B Takes 20 and 30- Amp. Housings		Form C Takes 60-Amp. Housings			
	Cat. No.	List Each	Cat. No.	List Each		Cat. No.	List Each	Cat. No.	List Each		
Type ARRH											
	½	ARRH13	\$2.00	.....		½	ARJ13	\$2.90	.....	
	¾	ARRH23	2.20	.....		¾	ARJ23	3.10	.....	
	1	ARRH33	2.40	ARRH36		\$3.30	1	ARJ33	3.30	ARJ36	4.30
	1¼	ARRH46		3.50	1¼	ARJ46	4.50
	1½	ARRH56		3.80	1½	ARJ56	4.80
Type ARRC											
	½	ARRC13	2.20	.....		½	ARD13	\$3.20	.....	
	¾	ARRC23	2.40	.....		¾	ARD23	3.50	.....	
	1	ARRC33	2.60	ARRC36		3.50	1	ARD33	3.70	ARD36	4.60
	1¼	ARRC46		3.80	1¼	ARD46	4.90
	1½	ARRC56		4.00	1½	ARD56	5.10
Type ARE											
	½	ARE13	2.00	.....		½	ARJG13	2.60	.....	
	¾	ARE23	2.20	.....		¾	ARJG23	2.80	.....	
	1	ARE33	2.40	ARE36		3.30	1	ARJG33	3.10	ARJG36	4.20
	1¼	ARE46		3.50	1¼	ARJG46	4.40
	1½	ARE56		3.70	1½	ARJG56	4.60

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS ARKITE
PLUGS AND RECEPTACLES**

AJ SERIES BODIES AND ADAPTERS

Type AJ with 60 and 100-Ampere Angle Adapter, Forms C and D



Size	Cat. No.	List Each
3/4	AJ27	\$16.00
1	AJ37	16.00
1 1/4	AJ47	16.20
1 1/2	AJ57	16.40
2	AJ67	16.60

Type AJC with 60 and 100-Ampere Angle Adapter, Forms C and D



Size	Cat. No.	List Each
3/4	AJC27	16.40
1	AJC37	16.40
1 1/4	AJC47	16.70
1 1/2	AJC57	17.00
2	AJC67	17.30

Type AJ with 200-Ampere Angle Adapter, Form E

Size In.	Cat. No.	List Each
1 1/2	AJ58	\$29.00
2	AJ68	29.20
2 1/2	AJ78	30.00

Type AJ with 400-Ampere Angle Adapter, Form F

Size In.	Cat. No.	List Each
2	AJ69	Price on Request
2 1/2	AJ79	on Request
3	AJ89	Request

Type AJX

Furnished with Gaskets for Hub Plates
Take Four Hub Plates



Cat. No.	Form	List Each	Rating	Hub Plate Series
AJX88	E	\$26.00	200 Amp.	YYP8
AJX99	F	on request	400 Amp.	YYP9

**CONDUIT HUB PLATES
For Type AJX Condulets
One Hub Straight**



Size Hub	YYP8 Series		YYP9 Series		Price on Request
	Cat. No.	List Each	Cat. No.	List Each	
1/2	YYP81	\$1.30	} Price on Request
3/4	YYP82	1.50	.....	.....
1	YYP83	1.70	.....	.....
1 1/4	YYP84	1.90	.....	.....
1 1/2	YYP85	2.10	YYP95	.....
2	YYP86	2.30	YYP96	.....
2 1/2	YYP87	2.50	YYP97	.....
3	.....	.....	YYP98	.....
3 1/2	.....	.....	YYP99	.....
4	.....	.....	YYP910	.....
5	.....	.....	YYP9012	.....

15° ANGLE ADAPTERS

For Types ARRA, ARRC, and ARRH Condulets
Furnished with Gaskets and Take Arkite Receptacle Housings



Cat. No.	List Each	Cat. No.	List Each
AR30	\$3.50	AR60	\$4.50

TYPE AR ANGLE ADAPTER

For Mounting Arkite Receptacle Housings at Angle On Steel Panel or Switch Cabinet
Takes 60 and 100 Ampere Type AR Receptacle Housing



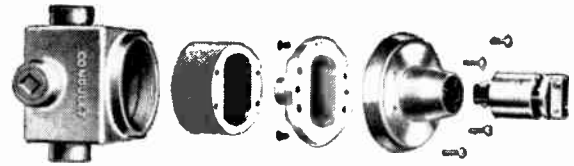
Cat. No.	List Each
AR610	\$4.50

CROUSE-HINDS PLUGS AND RECEPTACLES

TYPE EHR AND EHP RECEPTACLES AND PLUGS

Explosion-Proof

Adjustable—Factory Sealed For Flush Mounting in Hospital Operating Rooms and Similar Hazardous Locations
Class I, Groups C and D



Type EHR and Type EHP receptacles and plug are designed for safe performance in hospitals, in operating and delivery rooms and other anesthetizing locations, or in any class I, Group C or D atmosphere. The complete explosion-proof unit consists of a deep or shallow housing (CPS301 or CPS303); and an adjustable ring; and a bronze casting containing a specially keyed explosion-proof receptacle and plug.

Type EHP plug is specially keyed so that it is the only plug that will actuate the EHR receptacle. However, it will also operate in standard "Hubbel-lock" receptacles, used in both hazardous and non-hazardous locations.

Three-wire construction is used for equipment grounding. After cord is attached to plug terminals, all spaces are filled with potting compound so that gases or liquids cannot accumulate. An Epoxy potting kit is included with each plug.

Safety Chambered Type EHR Receptacle

Type EHR consists of a polished chrome-finished bronze casting, to which are attached a special "Hubbellock" receptacle and two cam-actuated microswitches; and a rear casting of aluminum which forms an explosion-retaining safety chamber around the switching mechanism. The mating surfaces of these castings are precision-ground to form a flame-tight joint. The CPS301 or CPS303 Condulet housing in which the EHR unit is mounted is also explosion-proof. Only when the EHP23 plug is rotated does switching take place. Other plugs will not operate it.

Face Plate — Chrome Plated

2 Wire 3 Pole Rating at 60 Cycles:
20A, 1 H.P., 125 V.A.C.

Adjustment	Size Hub	Complete Receptacle Unit		Receptacle Unit Less Body	
		Cat. No.	List Each	Cat. No.	List Each
0 to 5/8	1	EHR21211	\$78.00	EHR21271	\$71.50
0 to 1 1/4	1	EHR61272	81.00	EHR21272	73.00

Type EHP Plug

For Type EHR Plug Receptacle Unit
Furnished with Cable Grip Bushing.
Aluminum finish.

2 Wire, 3 Pole. Rating: 20 A. 1 H.P., 125 V.A.C.

Diameter Cable	Cat. No.	List Each
.250-.625	EHP23	\$17.00

Cover—Chrome Plated. 125 Volt A.C.
2-Wire, 3 Pole. Rating at 60 cycles: 20A. 1 H.P.;
Cat. No. EHR12-S33 List Each \$73.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS ARKITE PLUGS AND RECEPTACLES

Weather Resistant (Raintight)

30, 60, and 100-Ampere

250 Volts D.C., 600 Volts A.C.

APQ motor plugs are used to connect portable electric equipment to fixed outlets. In a typical installation an ARE or AREA receptacle with threaded cap is used as the power outlet. One or more identical cord sets are made with an APJ plug on one end and an APR receptacle on the other. The APQ motor plug is attached to the machine, either directly or mounted on a suitable AR or AJ series Condulet.

The APJ plug, having exposed contacts, is plugged into the receptacle having protected contacts. The cable connector receptacle at the other end of the cable set is then energized but has protected contacts. The cable connector receptacle mates with the APQ motor plug on the machine or with the APJ plug of another cord set.

**Type APQ
Motor Plugs
With Fastening
Ring**



With Square Flange
Gaskets, and
Exposed
Contacts

**Type APR
Cable Connector
Receptacles**



With Mechanical
Cable Grip,
Rubber Bushing, and
Protected
Contacts

**Type APJ Plugs
With Fastening Ring**



With Mechanical
Cable Grip,
Rubber Bushing, and
Exposed
Contacts

Description

Cat. No. List Each

Cat. No. List Each

Diameter Cable

Cat. No. List Each

30-Ampere

For AR Series, Form B

Style 1—Grounded Through Shell

2-Wire, } 2-Pole }	APQ327	\$21.00	{ APR3253	{ \$16.00	.500 to .875	APJ3273	\$16.00
			{ APR3255	{ 16.00	.875 to 1.375	APJ3275	16.00
3-Wire, } 3-Pole }	APQ337	23.00	{ APR3353	{ 17.00	.500 to .875	APJ3373	17.00
			{ APR3355	{ 17.00	.875 to 1.375	APJ3375	17.00
4-Wire, } 4-Pole }	APQ347	25.00	{ APR3453	{ 19.00	.500 to .875	APJ3473	19.00
			{ APR3455	{ 19.00	.875 to 1.375	APJ3475	19.00
Style 2—Grounded Through Extra Pole and Shell							
2-Wire, } 3-Pole }	APQ338	\$25.00	{ APR3363	{ \$19.00	.500 to .875	APJ3383	\$19.00
			{ APR3365	{ 19.00	.875 to 1.375	APJ3385	19.00
3-Wire, } 4-Pole }	APQ348	27.00	{ APR3463	{ 21.00	.500 to .875	APJ3483	21.00
			{ APR3465	{ 21.00	.875 to 1.375	APJ3485	21.00

60-Ampere

For AR and AJ Series, Form C

Style 1—Grounded Through Shell

2-Wire, } 2-Pole }	APQ627	\$29.00	{ APR6253	{ \$28.00	.500 to .875	APJ6273	\$23.00
			{ APR6255	{ 28.00	.875 to 1.375	APJ6275	23.00
3-Wire, } 3-Pole }	APQ637	31.00	{ APR6353	{ 30.00	.500 to .875	APJ6373	24.00
			{ APR6355	{ 30.00	.875 to 1.375	APJ6375	24.00
4-Wire, } 4-Pole }	APQ647	36.00	{ APR6453	{ 35.00	.500 to .875	APJ6473	26.00
			{ APR6455	{ 35.00	.875 to 1.375	APJ6475	26.00
Style 2—Grounded Through Extra Pole and Shell							
2-Wire, } 3-Pole }	APQ638	\$35.00	{ APR6363	{ \$32.00	.500 to .875	APJ6383	\$27.00
			{ APR6365	{ 32.00	.875 to 1.375	APJ6385	27.00
3-Wire, } 4-Pole }	APQ648	39.00	{ APR6463	{ 37.00	.500 to .875	APJ6483	29.00
			{ APR6465	{ 37.00	.875 to 1.375	APJ6485	29.00

100-Ampere

For AJ Series, Form D

Style 1—Grounded Through Shell

2-Wire, } 2-Pole }	APQ1027	\$44.00	{ APR10255	{ \$41.00	.875 to 1.375	APJ10275	\$35.00
			{ APR10257	{ 41.00	1.375 to 1.875	APJ10277	35.00
3-Wire, } 3-Pole }	APQ1037	46.00	{ APR10355	{ 43.00	.875 to 1.375	APJ10375	37.00
			{ APR10357	{ 43.00	1.375 to 1.875	APJ10377	37.00
4-Wire, } 4-Pole }	APQ1047	50.00	{ APR10455	{ 47.00	.875 to 1.375	APJ10475	41.00
			{ APR10457	{ 47.00	1.375 to 1.875	APJ10477	41.00
Style 2—Grounded Through Extra Pole and Shell							
2-Wire, } 3-Pole }	APQ1038	\$49.00	{ APR10365	{ \$46.00	.875 to 1.375	APJ10385	\$40.00
			{ APR10367	{ 46.00	1.375 to 1.875	APJ10387	40.00
3-Wire, } 4-Pole }	APQ1048	54.00	{ APR10465	{ 50.00	.875 to 1.375	APJ10485	44.00
			{ APR10467	{ 50.00	1.375 to 1.875	APJ10487	44.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS PLUG RECEPTACLES WITH INTERLOCKED SWITCH

Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Group G; and Class III (NEMA Types 3, 3R, 5, 7CD, 9G)

FSQ SERIES INTERLOCKED PLUG RECEPTACLE AND SWITCH CONDULETS

30-Ampere, 250-Volt A.C., or D.C.;
20-Ampere, 600-Volt A.C.; 2 H.P.,
115-575-Volt A.C.



Type FSQC, with Threaded Housing



Type FSQC, with Spring Door

Furnished with tumbler type switch and receptacle, either with threaded housing or spring door housing. Take FP and BP plugs.



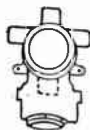
Type FSQC



Type FSQA



Type FSQD



Type FSQX

No. Poles	Size	Cat. No.	List Each	Cat. No.	List Each
Type FSQC					
2-Wire, } 3/4		FSQC232	48.30	FSQC230	48.30
3-Pole } 1		FSQC332	48.80	FSQC330	48.80
3-Wire, } 3/4		FSQC233	55.00		
4-Pole } 1		FSQC333	55.50		
Type FSQA					
2-Wire, } 3/4		FSQA232	51.00	FSQA230	51.00
3-Pole } 1		FSQA332	51.50	FSQA330	51.50
3-Wire, } 3/4		FSQA233	58.50		
4-Pole } 1		FSQA333	58.50		
Type FSQD					
2-Wire, } 3/4		FSQD232	51.00	FSQD230	51.00
3-Pole } 1		FSQD332	51.50	FSQD330	51.50
3-Wire, } 3/4		FSQD233	58.00		
4-Pole } 1		FSQD333	58.50		
Type FSQX					
2-Wire, } 3/4		FSQX232	51.00	FSQX230	51.00
3-Pole } 1		FSQX332	51.50	FSQX330	51.50
3-Wire, } 3/4		FSQX233	58.00		
4-Pole } 1		FSQX333	58.50		

Plugs for FSQ Series



Type FP



Type BP

Furnished with cable grip and rubber bushing. Grounded through extra pole and shell. Made of cast aluminum.

Type FP—For Threaded Housings

No. Poles	Dia. Cable	Cat. No.	List Each
2-Wire, 3-Pole	.500 to .875	FP323	\$15.00
3-Wire, 4-Pole	.500 to .875	FP334	17.00

Type BP—For Spring Door Housings

No. Poles	Dia. Cable	Cat. No.	List Each
2-Wire,	.375 to .500	BP49	15.00
3-Pole	.500 to .625	BP59	15.00
	.625 to .750	BP69	15.00
	.750 to .875	BP79	15.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS PLUGS AND RECEPTACLES

TYPE FSQ INTERLOCKED RECEPTACLE AND SWITCH

Furnished with 2-Pole Switch and 2-Wire, 3-Pole Receptacle



10-Amp., 250-V., A.C. or D.C.
2-Wire, 3-Pole

Size	Cat. No.	List Each
3/4	FSQ223	\$40.00

TYPE FP PLUG FOR TYPE FSQ RECEPTACLE AND SWITCH

Furnished with Cable Grip and Rubber Bushing Grounded Through Extra Pole and Shell

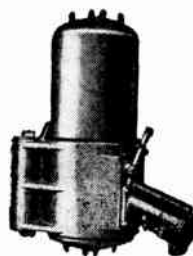


10-Amp., 250-V., A.C. or D.C.
2-Wire, 3-Pole

Dia. Cable	Cat. No.	List Each
.375 to .500	FP23	\$10.50

CROUSE-HINDS CIRCUIT BREAKERS

EPC CIRCUIT BREAKERS



Type EPC breakers listed below are higher capacity units similar in design to those listed elsewhere.

The interlocked receptacle accepts only the type DP plug listed below. An extra pole in the plug and receptacle is provided for a grounding conductor in the portable cable.

With Interlocking Plug Receptacle

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant—Raintight

Class I, Group D; Class II, Group G; and Class III (NEMA Types 3, 5, 7D, 9G)

Spring Door Receptacle—225 Ampere Frame Size Circuit Breaker with Interchangeable Thermal-Magnetic Trip

600-Volt A.C. or 250-Volt D.C.

Without Circuit Breaker

Recept.	Poles	Cir. Br. Amps.	Size Hub	Cat. No.	List Each
200-Amp.,	3	125-225	3	EPC604-2042	\$693
3-W., 4-P.			3	EPC605-2042	693

With Circuit Breaker

Recept.	Cir. Br. Amps.	Size Hub	Cat. No.	List Each
Three Pole				
200-Amp.,	125	3	EPC604-2042-**125-3	\$983
3-Wire,	150	3	EPC604-2042-**150-3	983
4-Pole	175	3	EPC604-2042-**175-3	983
	200	3	EPC604-2042-**200-3	983
	225	3	EPC604-2042-**225-3	983

**Insert the proper symbol in catalog number for the circuit breaker manufacturer that is desired: General Electric("TT"), Westinghouse("WT").

CROUSE-HINDS CIRCUIT BREAKERS

TYPE EPC CIRCUIT BREAKERS

With Interlocking Arktite® Plug Receptacle
Explosion-Proof, Dust-Ignition-Proof and
Weather Resistant—Raintight

Class I, Groups C and D; Class II, Group G; and Class III
(NEMA Types 3, 5, 7CD, 9G)

Construction is light weight, corrosion-resistant aluminum.

Interlocked with an Arktite receptacle to provide a power outlet with overcurrent protection. Interlock is made so that plug cannot be withdrawn unless breaker is open; and breaker cannot be closed unless plug is fully inserted. Maximum rating of circuit breaker is available for supplying power to motor-operated portable equipment or other portable apparatus.

Enclosure equipped with a grounded solderless connector for a ground wire. An extra pole in the plug and receptacle is provided for a grounding conductor in the portable cable. Four conduit hubs are located on the top and bottom of the center section near the back. Side and back hubs also available. The Arktite receptacles listed take style 2 APJ plugs.

EPCB Series available for Class I, Group B (Hydrogen).

Style 2 Spring Door Receptacle—100-Ampere Frame Size Circuit Breaker with Non-Interchangeable Thermal Trip and Non-Adjustable Magnetic Trip 480-Volt A.C. or 250-Volt D.C. Without Circuit Breaker

Recept.	Poles	Cir. Br. Amps.	Size Hub	Cat. No.	List Each
30-A., 2-Wire, 3-Pole	2	20-50	1¼	EPC43032	\$204
30-A., 3-Wire, 4-Pole	3	20-50	1¼	EPC43042	206
60-A., 2-Wire, 3-Pole	2	50	1¼	EPC46032	216
60-A., 3-Wire, 4-Pole	2	70-100	2	EPC66032	250
60-A., 3-Wire, 4-Pole	3	50	1¼	EPC46042	220
100-A., 2-Wire, 3-Pole	3	70-100	2	EPC66042	255
100-A., 3-Wire, 4-Pole	2	70-100	2	EPC61032	261
100-A., 3-Wire, 4-Pole	3	70-100	2	EPC61042	266

Style 2 Recept.	Cir. Br. Amps.	Size Hub	Cat. No.	List Each
Two Pole				
30-Amp., 2-Wire, 3-Pole	20	1¼	EPC43032--**20-2	\$255
	30	1¼	EPC43032--**30-2	255
	40	1¼	EPC43032--**40-2	255
	50	1¼	EPC43032--**50-2	255
60-Amp., 2-Wire, 3-Pole	50	1¼	EPC46032--**50-2	267
	70	2	EPC66032--**70-2	314
	90	2	EPC66032--**90-2	314
	100	2	EPC66032--**100-2	314
100-Amp., 2-Wire, 3-Pole	70	2	EPC61032--**70-2	325
	90	2	EPC61032--**90-2	325
	100	2	EPC61032--**100-2	325
Three Pole				
30-Amp., 3-Wire, 4-Pole	20	1¼	EPC43042--**20-3	270
	30	1¼	EPC43042--**30-3	270
	40	1¼	EPC43042--**40-3	270
	50	1¼	EPC43042--**50-3	270
60-Amp., 3-Wire, 4-Pole	50	1¼	EPC46042--**50-3	284
	70	2	EPC66042--**70-3	333
	90	2	EPC66042--**90-3	333
	100	2	EPC66042--**100-3	333
100-Amp., 3-Wire, 4-Pole	70	2	EPC61042--**70-3	344
	90	2	EPC61042--**90-3	344
	100	2	EPC61042--**100-3	344

**Insert the proper symbol in catalog number for the circuit breaker manufacturer that is desired: General Electric ("TT"), Square D ("DT"), ITE ("UT"), Westinghouse ("WT"). All furnished at the same list price.

CROUSE-HINDS CIRCUIT BREAKERS

TYPE DBR CIRCUIT BREAKERS

Dust-Ignition-Proof (Dust-Tight) and Weather Resistant—Raintight

With Interlocking Arktite Plug Receptacle

Class II, Group G; and Class III
(NEMA Types 3, 5, 9G)

Receptacles Take Type APJ Arktite Plugs



Use: Type DBR breakers listed below include interlocked circuit breakers and Arktite plug receptacles. They are for use wherever power outlets combined with over-current protection are required in Class II hazardous locations or where exposed to corrosive vapors, abrasive dust, or weather.

They may be employed for supplying motor-operated portable equipment up to the maximum horse power for which the circuit breakers are suitable. Also, they may be used for other portable electrical appliances.

When installed in hazardous locations, portable equipment must be suitable for the locations. These breakers accept standard Arktite plugs.

Plug Receptacle with Spring Door Housing	Circuit Breaker Poles and Volts	Size Hub †	Without Circuit Breaker Cat. No.	List Each
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100-Ampere Frame Size Circuit Breaker with Non-Interchangeable Thermal Trip and Non-Adjustable Magnetic Trip

30-Ampere, 2-Wire, 2-Pole, Style 1	2-Pole, 600-V. A.C. or 250-V. D.C.	1½	DBR53721	\$140.00
30-Ampere, 3-Wire, 3-Pole, Style 1	3-Pole, 600-V. A.C.	1½	DBR53731	\$141.00
30-Ampere, 2-Wire, 3-Pole, Style 2	2-Pole, 600-V. A.C. or 250-V. D.C.	1½	DBR53732	\$143.00
30-Ampere, 3-Wire, 4-Pole, Style 2	3-Pole, 600-V. A.C.	1½	DBR53742	\$145.00

Cir. Br. Amps	With Circuit Breaker Cat. No.	General Electric "TF"	*
20	DBR53721-TT20-2	DBR53732-TT20-2	
30	DBR53721-TT30-2	DBR53732-TT30-2	
40	DBR53721-TT40-2	DBR53732-TT40-2	
50	DBR53721-TT50-2	DBR53732-TT50-2	
20	DBR53731-TT20-3	DBR53742-TT20-3	
30	DBR53731-TT30-3	DBR53742-TT30-3	
40	DBR53731-TT40-3	DBR53742-TT40-3	
50	DBR53731-TT50-3	DBR53742-TT50-3	

Breakers listed above are equipped with one grounded solderless connector for ground wire. A ½-inch conduit opening equipped with pipe plug is provided for the ground wire.

†Type DBR Breakers are furnished with one drilled and tapped conduit opening at the top equipped with threaded-in-bushing. Removal of the bushing permits the use of the opening for the next larger size conduit. Other sizes or arrangements of conduit openings can be furnished on application.

*Prices on application. Breakers with ITE or Westinghouse circuit breakers can be furnished at the same list prices. Catalog numbers on request.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

EFS SERIES PUSH BUTTON STATIONS

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Enclosures are furnished with the D11 Series, heavy duty momentary contact push button stations. Single and two-gang units with dead end or through-feed hubs, and with front operated buttons or a rocker type operating handle, provide a wide selection of push button stations for use with magnetic motor starters to start, stop or reverse all types of electrical motors.

Furnished with Motor Control Push Button Stations—Front Operated Single-Gang



EFS—Dead-End★



EFSC—Through-Feed★

EFSC Through Feed★

Push Button Station Heavy-Duty 600 Volts A.C. Maximum Normal Positions	Diagram	Size Hub	Enclosure with Push Button Station Cat. No.	List Each
1 Circuit Universal		1/2 3/4 1	EFSC1184 EFSC2184 EFSC3184	\$18.70 18.90 19.30
2 Circuits Universal		1/2 3/4 1	EFSC1190 EFSC2190 EFSC3190	22.70 22.90 23.30
2 Circuits 1 Open—A 1 Closed—B		1/2 3/4 1	EFSC115 EFSC215 EFSC315	20.70 20.90 21.30

Furnished with Motor Control Push Button Stations—Front Operated Two Gang



EFS—Dead End★



EFSC—Through Feed★

EFSC Through Feed★

Push Button Station Heavy-Duty 600 Volts A.C. Maximum Normal Positions	Diagram	Size Hub	Enclosure with Push Button Station Cat. No.	List Each
1 Circuit Universal		1/2 3/4 1	EFSC1284 EFSC2284 EFSC3284	\$37.00 37.40 37.80
2 Circuits Universal		1/2 3/4 1	EFSC1290 EFSC2290 EFSC3290	45.20 45.40 45.80
2 Circuits 1 Open A 1 Closed—B		1/2 3/4 1	EFSC125 EFSC225 EFSC325	41.00 41.40 41.80

*Dead-End Type EFS hub arrangement available: Use type letters EFS instead of EFSC and deduct \$0.20 for 1/2", \$0.30 for 3/4", and \$0.50 for 1" sizes.

Push Button Station Marking

Ordering Information: Specify indicating plate marking. If not specified, blank indicating plates will be furnished.

Special markings will be provided at \$1.00 list additional per five-letter word or abbreviation.

CROUSE-HINDS CONTROL STATIONS

EFS SERIES PUSH BUTTON STATIONS

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Furnished with Motor Control Push Button Stations—Rocker Type Operating Handle

Single-Gang



EFS—Dead End★



EFSC—Through Feed★

EFSC Through Feed★

Push Button Station Heavy-Duty 600 Volts A.C. Maximum Normal Positions	Diagram	Size Hub	Enclosure with Push Button Station Cat. No.	List Each
1 Circuit Universal		1/2 3/4 1	EFSC1596 EFSC2596 EFSC3596	\$19.40 19.60 20.00
2 Circuits Universal		1/2 3/4 1	EFSC1194 EFSC2194 EFSC3194	22.60 22.80 23.20
2 Circuits 1 Open—A 1 Closed—B		1/2 3/4 1	EFSC1162 EFSC2162 EFSC3162	20.60 20.80 21.20

Furnished with Motor Control Push Button Stations—Front Operated

Single Button Operates Both Buttons of the Push Button Station Simultaneously

Single-Gang



EFS—Dead End★



EFSC—Through-Feed★

EFSC Through-Feed★

Push Button Station Heavy Duty 600 Volts A.C. Maximum Normal Positions	Diagram	Size Hub	Enclosure with Push Button Station Cat. No.	List Each
2 Circuits Universal		1/2 3/4 1	EFSC1192 EFSC2192 EFSC3192	\$21.90 22.10 22.50
2 Circuits 1 Open—A 1 Closed—B		1/2 3/4 1	EFSC1155 EFSC2155 EFSC3155	19.90 20.10 20.50

*Dead-end Type EFS hub arrangements available: Use type letters EFS instead of EFSC and deduct \$0.20 for 1/2", \$0.30 for 3/4" and \$0.50 for 1" sizes.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

EFD SERIES PUSH BUTTON STATIONS

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7 CD, 9EFG)

EFD factory sealed push button stations save installation costs and time by eliminating the need for external seals in the connecting conduit within 18 inches of the enclosure. Contacts are sealed in a special chamber which is part of the push button. No arcing contacts are exposed to the part of the enclosure where the conduit enters.

Heavy duty rated for use with magnetic motor starters to start, stop or reverse electric motors.

Each button operates a single universal momentary contact push button which may be connected for one circuit normally closed, one circuit normally open or two circuits, one normally closed and one normally open.

Ordering Information: Specify catalog number and indicating plate marking for each button. If marking is not specified, blank indicating plates will be furnished. Standard markings are available as follows:

START	RUN	TEST	FORWARD	UP	RAISE
STOP	JOG	HAND	REVERSE	DOWN	LOWER
ON	RESET	AUTO	OPEN	IN	LGT. ON
OFF	TRIP	EMER.	CLOSE	OUT	

Push Button Station Rating—Heavy Duty, 600 Volts, A.C. Maximum

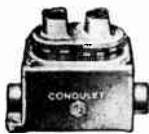
Type EFD—
Dead End



With One Push Button Station
Type EFD—
Dead End

Cat. No.	List Each	No. of P. B. Stations	Diagram	Size Hub	Cat. No.	List Each
EFD-					EFDC-	
1437†	\$23.60	1		1/2	1437†	\$23.80
2437†	23.70				2437†	24.00
3437†	23.90				3437†	24.50
1438†	36.20	2		1/2	1438†	36.40
2438†	36.30				2438†	36.60
3438†	36.50				3438†	37.10

Type EFDC—
Through-Feed



With Two Push Button Stations
Type EFDC—
Through Feed

Three-Device



EFD-		3		1/2	EFDC-	
1453†	\$54.70				1453†	\$54.90
2453†	54.80				2453†	55.10
3453†	55.00				3453†	55.50

Two-Gang



EFD-		4		3/4	EFDC-	
2838†	72.50				2838†	\$72.90

3838†	72.80	1		3838†	73.50
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†Specify indicating plate markings for each push button station. Refer to table above listing.

CROUSE-HINDS CONTROL STATIONS

EFS SERIES SELECTOR SWITCHES

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Furnished with D11 Series push button stations operated by a maintained contact mechanism built in the cover.

Ordering Information: Specify indicating plate markings. If marking is not specified, blank indicating plates will be supplied. Standard plate markings available are as follows:

Two-Position

RUN, JOG
AUTO, HAND
FORW., REV.
FAST, SLOW
OPEN, CLOSE
UP, DOWN
ON, OFF
IN, OUT
RAISE, LOWER
START, STOP

Three-Position

RUN, OFF, JOG
AUTO, OFF, HAND
FORW., OFF, REV.
1, OFF, 2
OPEN, OFF, CLOSE
UP, OFF, DOWN
FAST, OFF, SLOW

Single Gang



Type EFS—Dead End



Type EFSC—Through Feed

600 Volts A.C. Maximum

Heavy Duty — Maintained Contact

Type EFS—Dead End

Two-Position, Two-Circuit

Diagram Positions	Size Hub	Cat. No.	List Each
1	1/2	EFS11271	\$18.20
2	3/4	EFS21271	18.30
3	1	EFS31271	18.50
A1	1/2	EFS11272	20.20
A2	3/4	EFS21272	21.50
B1	1	EFS31272	21.70
B2			

Three-Position — Two Circuit

A1	1/2	EFS11273	18.20
A2	3/4	EFS21273	18.30
A1	1	EFS31273	18.50
A2	1/2	EFS11274	21.40
B1	3/4	EFS21274	21.50
B2	1	EFS31274	21.70
A1	1/2	EFS11275	21.40
A2	3/4	EFS21275	21.50
B1	1	EFS31275	21.70
B2			

Type EFSC—Through Feed

Two-Position — Two-Circuit

A1	1/2	EFSC11271	\$18.40
A2	3/4	EFSC21271	18.60
A1	1	EFSC31271	19.00
A2	1/2	EFSC11272	21.60
B1	3/4	EFSC21272	21.80
B2	1	EFSC31272	22.20

Three-Position — Two-Circuit

A1	1/2	EFSC11273	18.40
A2	3/4	EFSC21273	18.60
A1	1	EFSC31273	19.00
A2	1/2	EFSC11274	21.60
B1	3/4	EFSC21274	21.80
B2	1	EFSC31274	22.20
A1	1/2	EFSC11275	21.60
A2	3/4	EFSC21275	21.80
B1	1	EFSC31275	22.20
B2			

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

Explosion-Proof and Dust-Ignition-Proof

**EFS AND EFD SERIES PILOT LIGHTS
FACTORY SEALED†**

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Single Gang

For 110-125-V. circuits; colored or clear jewels‡. **Dead End** **Through Feed**



With Single Pilot Light **With Single Pilot Light**
With Double Pilot Light

Cat. No.	List Each	Size Hub	Cat. No.	List Each
EFS1524.*	\$19.10	1/2	EFSC1524.*	\$19.30
EFS2524.*	19.20	3/4	EFSC2524.*	19.50
EFS3524.*	19.40	1	EFSC3524.*	19.90
With Double Pilot Light				
EFS1561.*	28.20	1/2	EFSC1561.*	28.40
EFS2561.*	28.30	3/4	EFSC2561.*	28.60
EFS3561.*	28.50	1	EFSC3561.*	29.00

‡For arrangements for pilot light voltage other than 110-125 volts, refer to another page.

Three-Device†



With Three Pilot Lights **With Three Pilot Lights**

Cat. No.	List Each	Size Hub	Cat. No.	List Each
EFD1476.*	\$43.70	1/2	EFDC1476.*	\$43.70
EFD2476.*	43.80	3/4	EFDC2476.*	44.10
EFD3476.*	44.00	1	EFDC3476.*	44.50

Two-Gang



With Single Pilot Lights **With Double Pilot Lights**

Cat. No.	List Each	Size Hub	Cat. No.	List Each
EFS1624.*	\$38.80	1/2	EFSC1624.*	\$38.40
EFS2624.*	38.30	1	EFSC2624.*	38.60
EFS3624.*	38.50	1	EFSC3624.*	39.00
With Double Pilot Lights				
.....	.....	1/2	EFSC1661.*	56.60
EFS2661.*	56.50	3/4	EFSC2661.*	56.80
EFS3661.*	57.20	1	EFSC3661.*	57.20

Two-Gang Tandem†



With Single Pilot Lights **With Double Pilot Lights**

Cat. No.	List Each	Size Hub	Cat. No.	List Each
EFD140.*	\$40.00	1/2	EFDC140.*	\$40.10
EFD240.*	40.10	3/4	EFDC240.*	40.30
EFD340.*	40.30	1	EFDC340.*	40.80
With Double Pilot Lights				
.....	.....	1/2	EFDC1477.*	58.40
EFD2477.*	58.30	3/4	EFDC2477.*	58.60
EFD3477.*	58.50	1	EFDC3477.*	59.00

†Three-device and two-gang tandem are made only in the EFD deep type.

*Insert symbols for jewel colors.

CROUSE-HINDS CONTROL STATIONS

Explosion-Proof and Dust-Ignition-Proof

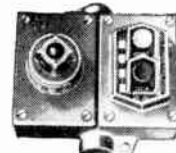
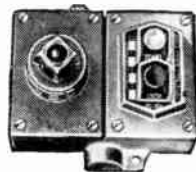
Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

EFS SERIES COMBINATION PUSH BUTTON STATIONS AND PILOT LIGHTS

EFS Series two-gang enclosures are furnished with a heavy duty push button station in one cover and a 110-125 volt pilot light in the other cover.

Ordering Information: Specify indication plate marking. If marking not specified, blank plates will be furnished.

Two-Gang



Type EFS—Dead-End **Through-Feed** Type EFSC—Through Feed

Push Button Station	Diagram	Size Hub	Cat. No.	List Each
Heavy Duty				
600 Volts Maximum				
Normal Positions				
1 Circuit Universal		1/2	1284-J1*	\$37.80
		3/4	2284-J1*	38.00
		1	3284-J1*	38.40
2 Circuits Universal		1/2	1858-J1*	41.80
		3/4	2858-J1*	42.00
		1	3858-J1*	42.40
2 Circuits		1/2	125-J1*	39.60
1 Open—A		3/4	225-J1*	40.00
1 Closed—B		1	325-J1*	40.40

*Type EFSC catalog numbers listed above include red pilot light jewel (J1) in all cases. Where a different color is required substitute the proper color symbol from the table. Example: EFSC225-J1 except with amber jewel is EFSC225-J6.

TYPE OFC PUSHBUTTON STATIONS

Explosion-Proof, Dust-Ignition-Proof, and Weather Resistant—Raintight

Class I, Group D, Class II, Group E, F, and G; and Class III (NEMA Types 3, 5, 7D, 8D, 9EFG)



For Oil Immersed or Air Break Devices
Furnished with Motor Control Push Button Station

Handle Marking	Diagram	Size Hub	Cat. No.	List Each
Single Operating Handle				
1 Circuit: Open—A				
Start		3/4	OFC2101	\$31.00
		1	OFC3101	31.00
		1 1/4	OFC4101	32.00
Double Operating Handle				
2 Circuits:				
1 Open—A—1 Closed—B				
Start } Stop }		3/4	OFC2103	32.00
		1	OFC3103	32.00
		1 1/4	OFC4103	34.00
2 Circuits: Universal				
*		3/4	OFC2133	35.00
		1	OFC3133	35.00
		1 1/4	OFC4133	36.00
Single Operating Handle—Operating Both Buttons Together				
2 Circuits: Universal				
*		3/4	OFC2139	35.00
		1	OFC3139	35.00
		1 1/4	OFC4139	36.00

*Must be specified.

Two-circuit push button stations are provided with a removable jumper for common line connection. It can be quickly removed for independent connections.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups, E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

EFD SERIES COMBINATION PUSH BUTTON STATIONS AND PILOT LIGHTS FACTORY SEALED

Ratings: Push Button Stations—Heavy Duty,

600 Volts A.C. Max.

Through-Feed



Single-Gang

1 Push Button Station and 1 Pilot Light

Diagram	Size Hub	Cat. No.	List Each
	1/2	EFDC1473-★†	\$32.70
	3/4	EFDC2473-★†	32.90
	1	EFDC3473-★†	33.40



Three-Device

1 Push Button Station and 2 Pilot Lights

Diagram	Size Hub	Cat. No.	List Each
	1/2	EFDC1474-★†	\$47.60
	3/4	EFDC2474-★†	47.80
	1	EFDC3474-★†	48.20

2 Push Button Stations and 1 Pilot Light

Diagram	Size Hub	Cat. No.	List Each
	1/2	EFDC1475-★†	\$51.30
	3/4	EFDC2475-★†	51.50
	1	EFDC3475-★†	51.90



Two-Gang

2 Push Button Stations and 1 Pilot Light

Diagram	Size Hub	Cat. No.	List Each
	1/2	EFDC1471-★†	\$56.40
	3/4	EFDC2471-★†	56.60
	1	EFDC3471-★†	57.00

2 Push Button Stations and 2 Pilot Lights

Diagram	Size Hub	Cat. No.	List Each
	3/4	EFDC2868-★†	65.70
	1	EFDC3868-★†	66.10



Two-Gang Tandem

2 Push Button Stations and 1 Pilot Light

Diagram	Size Hub	Cat. No.	List Each
	1/2	EFDC145-★†	\$56.40
	3/4	EFDC245-★†	56.60
	1	EFDC345-★†	57.10

2 Push Button Stations and 2 Pilot Lights

Diagram	Size Hub	Cat. No.	List Each
	3/4	EFDC2472-★†	\$65.80
	1	EFDC3472-★†	66.20

*Insert symbols for jewel colors.

†Indicating plate marking must be specified.

§Pilot light voltage other than 110-125 volts available.

CROUSE-HINDS CONTROL STATIONS

Explosion-Proof, Dust-Ignition-Proof, and Watertight

TYPE EWC ENCLOSURES

Pilot Lights, Heavy Duty Push Button Stations, Selector Switches and Combinations

Class I, Groups C and D, Class II, Groups E, F, and G; and Class III (NEMA Types 3, 4, 5, 7CD, and 9EFG)

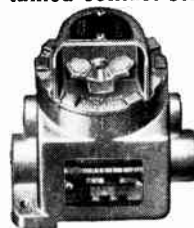
Type EWC designed for use in hazardous locations. They are watertight and may be used where exposed to the weather or to the direct stream of water from a hose during washing-down operations.

Threaded covers, threaded operating shafts, and pilot light jewels are all effectively sealed with Neoprene O-Rings.

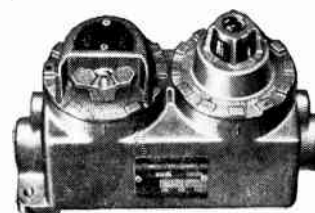
Single pilot lights are provided with candelabra base lamp receptacles and 125-volt, 6-watt, Type S-6 clear bulb lamps for use on 110-125-volt circuits. Colored or clear glass jewels and transformers for 220, 440, or 550 volts if required, are specified by adding suffixes as listed.

Duplex pilot lights are provided with miniature bayonet base lamp receptacles and 6-8-volt #44 T3¼ lamps. Transformers are furnished and are available for primary voltages of 120, 220, 440, or 550 volts. Heavy duty, 600-volt A.C. universal push button stations are used.

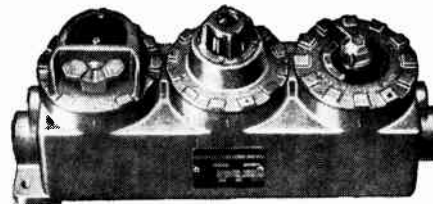
Rotary type, standard duty, 600-volt A.C. maintained contact selector switches are used.



Single-Gang with Push Button Station



Two-Gang with Push Button Station and Pilot Light



Three-Gang with Push Button Station, Pilot Light and Selector Switch

Diagram	Cat. No.	List Each
	EWC210-*	\$28.00
	EWC210-*-T4	35.00
	EWC211†	36.00
	EWC212†	26.00
	EWC213†	26.00
	EWC214†	26.00
	EWC215†	26.00
	EWC216†	26.00
	EWC217†	26.00
	EWC218†	52.00

*Specify jewel symbol for each pilot light.

†Specify indicating plate marking for each selector switch or push button station.

Available in Two-gang—1" Hub and Three-gang 1¼" Hub. Information on request.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS CONTROL STATIONS
TYPE EMP ENCLOSURES**

**Pilot Lights, Heavy Duty Push Button Stations,
Selector Switches and Combinations
Explosion-Proof and Dust-Ignition-Proof**

Panel Mounting

Class I, Groups C and D; Class II, Groups E, F, and G;
and Class III (NEMA Types 5, 7CD, 9EFG)

Design: Type EMP designed for mounting on panelboards so that pilot lights, push buttons, and switch handles are flush with the front of the panel, and bodies are in back of the panel. Threaded necks are provided with locking nuts to firmly clamp the enclosures in place. This permits easy alignment with conduit and other enclosures on the panel.

Compactly designed to require the absolute minimum panel space consistent with explosion-proof construction. For this reason they are ideally suited for flow chart panels.

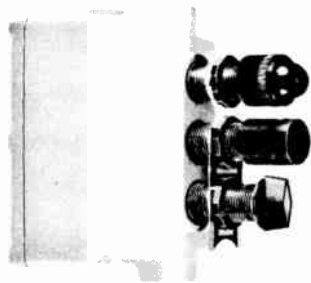
Bodies have through-feed 1" conduit hubs. They are fitted with flat ground joint covers fastened with heavy screws. Large covers give maximum accessibility to interior.

Type EMP furnished in two styles:
Style 1 for 125-volt pilot lights only—Factory Sealed
Style 3 for push button stations, selector switches, pilot lights and pilot lights with transformers or combinations of these — Not Factory Sealed.

Finish: Parts extending beyond the face of the panel have dull black instrument finish.

Sealing: External seals are required when push button stations and/or selector switches are used.

Panel Drilling: Holes in panels must be 1 1/8 inches in diameter. Any panel thickness up to 1 3/4 inches can be used. Hole spacing is 1 5/8 inches.



EMP Three-Gang with Pilot Light, Push Button Station and Selector Switch Style 3

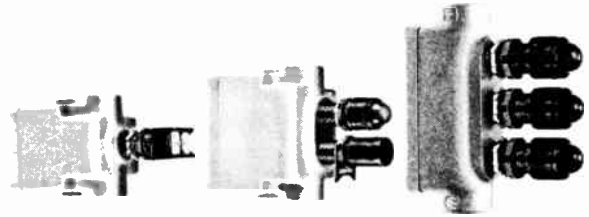
Pilot Lights: Style 1 Pilot Lights are equipped with lamps for use on 110-125-volt circuits; and colored or clear glass jewels. For arrangements for circuit voltages other than 110-125 volts, use style 3 bodies. Flexible leads for connection to the circuit conductors are accessible through the rear cover opening. The lamp is accessible from the front of the panel by unscrewing the knurled jewel assembly.

Push Button Stations: Heavy duty, 600-volt A.C., momentary contact. Various contact arrangements available.

Selector Switch: Maintained contact selector switches are furnished with D11 Series push button stations operated by a maintained contact mechanism. Two- and three-position arrangements with contacts to operate in the sequences shown by the diagrams, will meet many of the requirements for this type of switch in motor control installations. Other arrangements and sequences can be furnished

Selector-Push Button Station: Two single momentary contact, heavy-duty, 600-volt push button stations are operated by one button-knob. When knob is turned to left position and pushed, one set of N.O. and N.C. contacts is operated.

Turning knob to right position operates a second set of N.O. and N.C. contacts. Knob will return to center position when released from either right or left positions. When pushed in center position, both right or left sets of contacts are operated together.



EMP 43 Single-Gang Style 3

EMP 501 Two-Gang Style 3

EMP 3000 Three-Gang Style 1

**Table 1
Push Button Marking**

The indicating plate marking for each push button must be specified. Standard markings are available at no extra charge. Special markings will be furnished at \$1.00 per word list additional. Standard markings available are:

START	JOG	TEST	AUTO.	CLOSE
STOP	RAISE	LGT. ON	EMER.	UP
ON	LOWER	IN	FORWARD	DOWN
OFF	RESET	OUT	REVERSE	
RUN	TRIP	HAND	OPEN	

**Table 2
Selector Switch Marking**

Indicating plate markings for each selector switch must be specified. Standard markings are available at no extra charge. Special markings will be furnished at \$1.00 per word list additional. Standard markings available are:

RUN, JOG	Two-Position OPEN, CLOSE	IN-OUT
AUTO, HAND	UP, DOWN	RAISE-LOWER
FORWARD, REV.	OFF, ON	START-STOP
FAST, SLOW		

RUN, OFF, JOG	Three-Position OPEN, OFF, CLOSE
AUTO, OFF, HAND	UP, OFF, DOWN
FORWARD, OFF, REV.	FAST, OFF, SLOW
1, OFF, 2	

**Table 3
Pilot Light Specification**

Lens Color	Symbol	Lens Color	Symbol
Red	J1	Opal	J8
Green	J3	Clear	J10
Amber	J6	Blue	J11

Transformer When Required For Style 2 Body Only

Volts	Cat. No.
220 Volt Primary	T2
440 Volt Primary	T4
550 Volt Primary	T5

Example: The catalog number for a 440-volt blue pilot light is EMP40-J11-T4.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

TYPE EMP ENCLOSURES

Pilot Lights, Heavy Duty Push Button Stations, Selector Switches and Combinations Explosion-Proof and Dust-Ignition-Proof

Panel Mounting

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Diagrams	Cat No.††	List Each
Single-Gang — 1" Hubs		
	EMP 10★	\$17.00
	40-T4★	26.00
	41†	23.00
	42§	31.00
	43†	38.00
	44§	28.00
	45§	31.00
	46§	28.00
	47§	31.00
	48§	31.00
	49§	37.00

Two-Gang — 1" Hubs

	200★	31.00
	500-T4★	47.00
	501†★	37.00
	502†★	44.00
	503†★	51.00
	506§★	41.00
	511†	40.00
	516†§	45.00

Three-Gang — 1" Hubs

	3000★	47.00
	9000-T4★	66.00
	9001†★	50.00
	9002†★	58.00
	9006§★	55.00
	9011†★	53.00
	9016†§★	58.00
	9030†★	64.00
	9101†★	53.00
	9111†	57.00
	9116†§	61.00

†Specify indicating plate marking for each push button. See Table 1. ★Specify jewel symbol for each pilot light. See Table 3. See Table 3 for listings of suffixes for other voltages. §Specify indicating plate marking for each selector switch. See Table 2.

††Other combinations of pilot lights, push button stations and selector switches are available. Information on request.

CROUSE-HINDS CONTROL STATIONS

TYPE EGP ENCLOSURES

Panel Mounting—Factory Sealed

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Mercury Switch For Horizontal Conduit Only



Furnished with metal clad mercury tube switch elements.

Style 3 1" Through-Feed Hubs

Amperes: 5 A.C. 3 D.C. 125 Volts
4 A.C. 2 D.C. 250 Volts

Poles	Switch Information No. Tubes	Cat. No.	List Each
On-Off			
1	1	EGP317	\$60.00
2	2	EGP327	66.00
3	3	EGP337	81.00
Double-Throw with "Off" Position			
1	2	EGP319	66.00
2	4	EGP329	84.00

Selector Switch Enclosures

Type EGP selector switches are furnished with D11 series push buttons with mounting straps to fit the enclosures. A special maintained contact mechanism in the barrel assembly operates the contacts to obtain the sequences shown by the diagrams. The standard operations will meet many of the requirements in motor control installations. Other arrangements can be furnished.

Specify indicating plate marking. If marking not specified blank indicating plates will be furnished.

Two-Position	Three-Position
RUN, JOG	RUN, OFF, JOG
AUTO, HAND	AUTO, OFF, HAND
FORWARD, REV.	FORWARD, OFF, REV.
FAST, SLOW	1, OFF, 2
OPEN, CLOSE	OPEN, OFF, CLOSE
UP, DOWN	UP, OFF, DOWN
ON, OFF	FAST, OFF, SLOW
RAISE, LOWER	
IN, OUT	
START-STOP	

Specify indicating plate markings. Refer to listing of standard markings above.
600 Volts A.C. Maximum

Standard Duty—Maintained Contact 1" Hubs

Diagram Positions	Cat. No.	List Each
Two-Position, Two-Circuit		
1 2 3	EGP3161	\$42.00
A1 A2	EGP3162	45.00
B1 B2		
Three-Position, Two-Circuit		
A1 A2	EGP3163	42.00
A1 A2	EGP3164	45.00
B1 B2	EGP3165	45.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS CONTROL STATIONS

TYPE EGP ENCLOSURES

Panel Mounting—Factory Sealed

Pilot Lights, Heavy Duty Push Button Stations, and Combinations

Explosion-Proof and Dust-Ignition-Proof

Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III (NEMA Types 5, 7CD, 9EFG)

Pilot light enclosures are furnished for use on 110-125 volt circuits and are equipped with colored or clear glass jewels. Arrangements for circuit voltages other than 110-125 volts are also available. Flexible leads for connection to the circuit conductors are accessible through the rear cover openings. The lamp is accessible from the front of the panel by unscrewing the knurled jewel clamping ring. If required, a jewel clamping ring with guard can be supplied. Add suffix S93 to the catalog number and \$3.00 per lamp to the list price.

Table of Jewel Symbols

When there are two or more jewels and the colors are to be different, show the symbol for each jewel. For example: Cat. No. of EGP3115 with two red, one green, and one amber jewel is EGP3115-J1-J1-J3-J6.

Color	Symbol	Color	Symbol	Color	Symbol
Red	J1	Amber	J6	Clear	J10
Green	J3	Opal	J8	Blue	J11

Heavy duty, 600-volt, factory-sealed, single button universal push button stations are used. Each push button station may be connected for one circuit normally closed, one circuit normally open, or two circuits, one normally closed and one normally open. One unit may be used for jogging service or two may be used to make up a "Start-Stop" push button station.

Each operating button is provided with a U-shaped guard which may be rotated to place the open side at any desired position.

No. of Push Button Stations	No. of Pilot Lights	Diagram	Cat. No.	List Each
Single Gang—Style 1				
....	1		EGP311-*	\$19.00
1	....		EGP3011-†	23.00

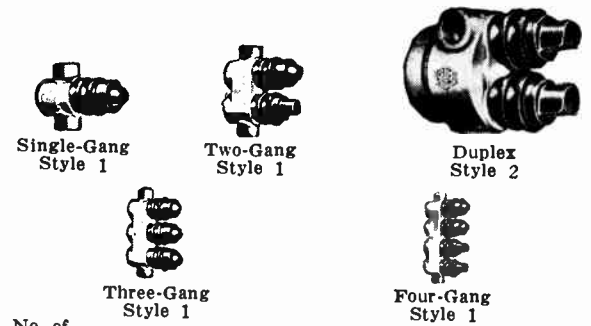
*Insert symbol for Jewel colors

†Specify indicating plate marking for each push button station.



Insulating parts are made of glass-filled polyester which has very high dielectric and mechanical strength. It also has very high resistance to arc tracking and moisture absorption. Special silver alloy contacts are designed for long life when used in air or under oil.

MOTOR CONTROL PUSH BUTTON STATIONS



No. of P.B. Stations	No. of P.L.	Diagram	Cat. No.	List Each
Two-Gang—Style 1				
....	2		EGP-312*	\$40.00
2	....		3012†	47.00
1	1		3117*†	43.00
Duplex—Style 2				
....	2		322*	40.00
2	....		3022†	47.00
1	1		3116*†	43.00
Three-Gang—Style 1				
....	3		313*	59.00
3	....		3013†	70.00
1	2		3127*†	63.00
2	1		3217*†	66.00
Four-Gang—Style 1				
....	4		3115*	78.00
4	....		3014†	92.00
1	3		3137*†	81.00
2	2		3227*†	85.00
3	1		3317*†	88.00

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS SIGNALS

TYPE ETH HORN SIGNALS

Explosion-Proof and Dust-Tight

Class I, Groups B, C and D; Class II Groups E, F, and G; and Class III

Standard Volume Horn Signals

Adjustable projectors may be rotated in a horizontal plane through 180 degrees to direct the sound as desired.

Size Hub— $\frac{3}{4}$ ".



Single Projector Non-Adjustable Loudness Rating at 10 Feet

Nom. Volts	Voltage Range	Deci-bels	ASA Units	Cat. No.	List Each
Single Projector Non-Adjustable—50 to 60 Cycle A.C.—Nominal Watts: 33					
115†	105-125	104	126000	ETH-2703	\$86.00
230	207-253	105	138000	2702	86.00

High Power Horn Signals



Grill (A.C. Unit Shown)



Single Projector Adjustable (A.C. Unit Shown)



Double Projector Adjustable (A.C. Unit Shown)

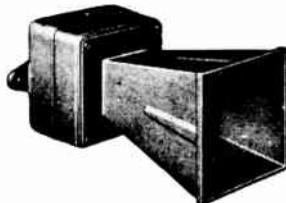
Nom. Volts	Voltage Range	Deci-bels	ASA Units	Cat. No.	List Each
Grill—50 to 60 Cycle A.C.† Nominal Watts: 49					
12	11-13	106	150000	ETH-2317	\$120.00
24	22-26			2316	120.00
48	44-52			2314	120.00
115	104-126			2313	103.00
230	207-253			2312	120.00
250	225-275				

Grill—D.C. Nominal Watts: 30

12	11-13	104	126000	2417	142.00
24	22-26			2416	142.00
48	44-52			2414	142.00
125	113-137			2413	127.00
250	225-275				

†25-40 cycle range can be supplied at \$5.00 list additional. Add suffix S225 to the catalog number.

Type WH Horn Signal Weather Resistant—Raintight 50 to 60 Cycle A.C.*



Nom. Volts	Cat. No.	List Each	Cat. No.	List Each
120	WH13503	\$27.00	WH13513	\$30.00

‡Flush Mounting: The grill type can be furnished for a flush installation by adding suffix -S549 to the catalog number and \$5.00 to the list each price.

*24 to 40 Cycle A.C.: For operation at this frequency add suffix -S225 to the catalog number, and \$5.00 to the list each price.

CROUSE-HINDS INSTRUMENTS

TYPE EMH INSTRUMENT ENCLOSURES

Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Group D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 5, 7D, 9EFG)

Furnished with mounting plate and supports for instruments.

Surface type has four mounting feet with fastening holes. Flush type has a neck to project through a hole in the panel, a flange $\frac{1}{8}$ of an inch back from the end of the neck, and four mounting feet tapped for screws to fasten the body to the back of a steel panel approximately $\frac{1}{4}$ -inch thick. Bodies are equipped with mounting plates and posts to support the instruments near the cover window. This arrangement leaves ample space back of the instruments for wires and connections. General Electric A072, DO72, DO73, DO71; Westinghouse NA35, NX35, NC35, NT35, NH35; Weston Model 476, Model 425, Model 301; and Hickok Model 46, Model 47M, Model 47X, Model 47, Model 47T can be mounted in these Condulets.



Surface Mounting



Flush Mounting

Conduit Openings*	Size	Cat. No.	List Each
Surface Mounting			
One in Side	$\frac{3}{4}$	EMH521-20000	\$42.00
Two in Sides (Through-Feed)	$\frac{3}{4}$	EMH521-20200	43.00
Flush Mounting			
One in Side	$\frac{3}{4}$	EMH511-20000	44.00
Two in Sides (Through-Feed)	$\frac{3}{4}$	EMH511-20200	45.00

*Can be mounted so as to bring the conduit openings to any conventional position required and still permit the instrument to be installed with the scale properly located. Other conduit arrangements can be furnished. Prices on application.

TYPE GUB INSTRUMENT ENCLOSURES

Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Group B and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 5, 7D, 9EFG)

Equipped with $\frac{3}{4}$ -inch hub for threaded conduit.

Mounting plates, brackets, or pillars for instruments are not included in the list prices. These parts can be furnished and prices will be quoted on receipt of complete instrument dimensions.



GUB110, GUB218



GUB319



GUB819, GUB419

Dimensions					Cat. No.	List Each
Cover Dia.	Open- ing	Win- dow	In- side Depth	Hubs† Posi- tion		
5½	3½	3	¾	Top	GUB110-1-20	\$ 38.00
7	5¼	3	¾	Top	GUB218-1-20	68.00
7	5¼	4	¾	Top	GUB619-1-20	79.00
9½	7⅞	5	¾	Top	GUB319-1-20	144.00
7	5¼	4	¾	Top	GUB819-1-20	86.00
			¾	Back	GUB819-5-02	86.00
9½	7⅞	5	¾	Top	GUB419-1-20	159.00
			¾	Back	GUB419-5-02	159.00

†Other hub arrangements and sizes can be furnished. Information on request.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS INDUSTRIAL CONTROL

TYPE EPC COMBINATION LINE STARTERS

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight) and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 4, 5, 7CD, 9EFG)



Use: Type EPC bodies are arranged for combinations of air break circuit breakers with magnetic thermal time delay motor starting switches. The flexible design of the new M60 Type EPC body permits direct use of most manufacturers' single speed starters (Size 0-4) in combination with a variety of manufacturers' circuit breakers. They are suitable for use with polyphase A.C. induction motors when across-the-line starting is permissible.

Operation: For manual operation of the circuit breakers as a disconnect, an external handle is provided. The construction of the operating mechanism eliminates excessive strain being applied to

the circuit breaker handle. The circuit breaker has short circuit rupturing capacity; therefore, it will open the circuit without damage to itself. The thermal time delay feature of the starter prevents its opening during the normal starting period of the motor. However, under long continued overloads which would damage the motor or the conductors, the thermal relay anticipates the danger and opens the starter, disconnecting the motor. In case of undervoltage, the starter will open. The top cover has female threads and is skirted to effectively shed water; the bottom cover has male threads for the same purpose. Both covers are equipped with notches and the body with a pry bracket to easily loosen the covers when removal is necessary.

EPCB Series available for Class I, Group B (Hydrogen).

Reset: Starters have thermal overload relays arranged for manual reset; a reset lever is mounted on the side of the body.

Control: Built-in push button station, selector switch and pilot lights can be furnished in these bodies. Standard EPC bodies have operating shaft holes for push button station and selector switch, drilled, tapped and plugged for installation of these features at any time. For remote control, type EFD, EFS, EGP, EWC and OFC Series push button stations are recommended.

Mounting: The separate replaceable mounting bracket is attached to the rear of the EPC center section. By three-point suspension (one keyhole slot at top and two open slots at bottom) quick mounting and leveling can be accomplished.

Cat. No.	Nom. Dia.	Approximate Dimensions						
		A	B	D	E	F	G	
EPC-								
87	7"	10 ⁵ / ₈	27 ¹ / ₄	36 ¹ / ₈	14 ¹ / ₈	6 ³ / ₄	7 ¹ / ₈	11 ⁵ / ₈
892	9"	12	29 ⁵ / ₁₆	43 ¹ / ₁₆	16 ³ / ₄	6 ³ / ₄	7 ¹ / ₁₆	14 ⁷ / ₈
813	11"	16 ¹ / ₈	38 ¹ / ₂	61	20 ¹ / ₄	9 ¹ / ₈	8 ⁵ / ₈	20 ³ / ₄
814	11"	16 ¹ / ₈	44 ¹ / ₂	69	20 ¹ / ₄	12 ¹ / ₈	8 ⁵ / ₈	23 ³ / ₄
		H	J	K	L	M	N	P
87	7"	2	7 ⁵ / ₈	7 ⁵ / ₈	2 ¹ / ₁₆	9 ³ / ₈	5 ¹ / ₄	1 ¹ / ₄
892	9"	3	11 ¹ / ₂	8 ¹ / ₂	2 ¹ / ₁₆	9 ³ / ₈	5 ¹ / ₄	1 ¹ / ₂
813	11"	4 ¹ / ₂	18	12	2 ⁵ / ₈	11	5 ¹ / ₂	2 ¹ / ₂
814	11"	4 ¹ / ₂	20	12	2 ⁵ / ₈	11	5 ¹ / ₂	2 ¹ / ₂

Max. H.P. 3-Phase 60-cycle (Av. Mtr.)	Frame	Amp. Rating	Cat. No. Without Starter and Circuit Breaker	List Each
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220-Volts — 7" Size for Size 0 Starters — 1 1/4 Size Hub

3	E	20	EPC87	\$175.00
			440-Volts — 1 1/4 Size Hub	
5	EH	15	EPC87	\$175.00
5	F	15	EPC87	175.00
			550-Volts — 1 1/4 Size Hub	
5	F	15	EPC87	\$175.00

CROUSE-HINDS INDUSTRIAL CONTROL

TYPE EPC COMBINATION LINE STARTERS

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight), and Weather Resistant—Raintight

Class I, Groups C and D, Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 4, 5, 7CD, 9EFG)

Max. H.P. 3-Phase 60-cycle (Av. Mtr.)	Frame	Amp. Rating	Cat. No. Without Starter and Circuit Breaker	List Each
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220-Volts — 7" Size for Size 1 Starters — 1 1/4 Size Hub

5	E	30	EPC87	\$175.00
7 1/2	E	50	EPC87	175.00
			440-Volts — 1 1/2 Size Hub	
7 1/2	EH	30	EPC87	\$175.00
10	EH	30	EPC87	175.00
7 1/2	F	30	EPC87	175.00
10	F	30	EPC87	175.00
			550-Volts — 1 1/4 Size Hub	
7 1/2	F	30	EPC87	\$175.00
10	F	30	EPC87	175.00

220-Volts — 9" Size for Size 2 Starters — 1 1/2 Size Hubs

10	E	50	EPC892	\$220.00
15	E	70	EPC892	220.00
			440-Volts — 1 1/2 Size Hubs	
20	EH	50	EPC892	\$220.00
25	EH	70	EPC892	220.00
20	F	50	EPC892	220.00
25	F	70	EPC892	220.00
			550-Volts — 1 1/2 Size Hubs	
20	F	50	EPC892	\$220.00
25	F	70	EPC892	220.00

220-Volts — 11" Size for Size 3 Starters — 2 1/2 Size Hubs

30	F	100	EPC813	\$400.00
30	JA, FJ	125	EPC813	400.00
30	J	125	EPC813	400.00
			440-Volts	
50	EH	100	EPC813	\$400.00
50	F	100	EPC813	400.00
50	JA, FJ	125	EPC813	400.00
50	J	125	EPC813	400.00
			550-Volts	
50	F	100	EPC813	\$400.00
50	JA, FJ	125	EPC813	400.00
50	J	125	EPC813	400.00

220-Volts — 11" Size for Size 4 Starters — 2 1/2 Size Hubs

50	JA, FJ	200	EPC814	\$475.00
50	J	200	EPC814	475.00
			440-Volts — 2 1/2 Size Hubs	
75	JA, FJ	150	EPC814	\$475.00
100	JA, FJ	200	EPC814	475.00
75	J	150	EPC814	475.00
100	J	200	EPC814	475.00

550-Volts — 2 1/2 Size Hubs

75	JA, FJ	125	EPC814	\$475.00
100	JA, FJ	150	EPC814	475.00
75	J	125	EPC814	475.00
100	J	150	EPC814	475.00

440-Volts — 13" Size for Size 5 Starters — 4" Size Hubs

†125	JKL	300	EPC10504	\$950.00
†150	JKL	400	EPC10504	950.00
†200	KLM	500	EPC10533	950.00

Available with starter and circuit breaker. Write for information.

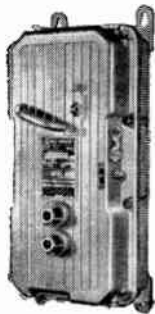
Circuit Breakers: Manufactured by General Electric, ITE, Square D, Westinghouse.

Motor Starters: Manufactured by Square D, General Electric, Arrow-Hart and Hegeman, Cutler-Hammer, Westinghouse, Allen-Bradley.

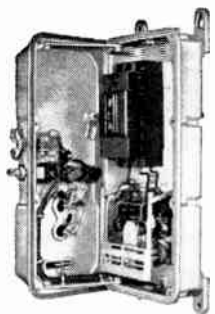
†With Arrow-Hart and Hegeman starter.

DISCOUNTS: UNDER \$100, 18%—\$100-299.99, 23%—\$300 and OVER, 34%

**CROUSE-HINDS INDUSTRIAL CONTROL
COMBINATION LINE STARTERS**



Combination Line Starter



Combination Line Starter With Cover Open Showing Interior Starter and Circuit Breaker Assembly

Type DMC Combination Line Starters

Dust-Ignition-Proof (Dust-Tight)

Class II, Groups E, F, and G (NEMA Type 9 EFG)

Size	Max. H.P. 3-phase 60-cycle (Av. Mtr.)	Circuit Breaker Amp. Rating	Size Frame	Cat. No. Without Starter and Circuit Breaker	List Each
110-220 Volts					
0	2	30	E 1	DMC11	\$135.00
0	3	20	E 1	DMC11	135.00
1	5	30	E 1	DMC11	135.00
1	7½	50	E 1	DMC11	135.00
2	10	50	E 1½	DMC21	190.00
2	15	70	E 1½	DMC21	190.00
3*	25	100	E 2	DMC31	375.00
440-550 Volts					
0	5	15	EH 1	DMC11	\$135.00
1	7½	30	EH 1	DMC11	135.00
1	10	30	EH 1	DMC11	135.00
2	20	50	EH 1½	DMC21	190.00
2	25	70	EH 1½	DMC21	190.00
3*	50	100	EH 2	DMC31	375.00
0	3	5	F 1	DMC11	\$135.00
1	7½	30	F 1	DMC11	135.00
1	10	30	F 1	DMC11	135.00
2	20	50	F 1½	DMC21	190.00
2	25	70	F 1½	DMC21	190.00
4	100	150	JA 2½	DMC41	450.00
4	100	200	JA 2½	DMC41	450.00
4	100	150	J 2½	DMC41	450.00
4	100	200	J 2½	DMC41	450.00

Use: Types DMC and WMC bodies are arranged for combinations of air break circuit breakers with magnetic thermal time delay motor starting switches and are suitable for use with polyphase A.C. induction motors when across-the-line starting is permissible.

Features: The combination of a thermal time delay circuit breaker with a magnetic thermal time delay starter provides:

1. Disconnecting means (breaker)
2. Motor branch circuit protection (breaker)
3. Motor running protection (starter)
4. Undervoltage protection (starter)
5. Remote starting and stopping (starter)

Type WMC Combination Line Starters

Watertight

(NEMA Types 3, 3R, 4, 5)

Max. H.P. 3-phase 60-cycle (Average Motors)	Amp. Rating	Size Frame Hubs	Cat. No. Without Starter and Circuit Breaker	List Each		
110V. 220V.						
0	2	.....	30	E 1	WMC11	\$125.00
0	3	.....	20	E 1	WMC11	125.00
1	5	.....	30	E 1	WMC11	125.00
1	7½	.....	50	E 1	WMC11	125.00
2	10	.....	50	E 1½	WMC21	175.00
2	15	.....	70	E 1½	WMC21	175.00
3*	25	.....	100	E 2	WMC31	340.00
440V. 550V.						
0	5	.....	15	EH 1	WMC11	\$125.00
1	7½	.....	30	EH 1	WMC11	125.00
1	10	.....	30	EH 1	WMC11	125.00
2	20	.....	50	EH 1½	WMC21	175.00
2	25	.....	70	EH 1½	WMC21	175.00
3*	50	.....	100	EH 2	WMC31	340.00
0	3	5	15	F 1	WMC11	\$125.00
1	7½	7½	30	F 1	WMC11	125.00
1	10	10	30	F 1	WMC11	125.00
2	20	25	50	F 1½	WMC21	175.00
2	25	25	70	F 1½	WMC21	175.00
4	100	150	150	JA 2½	WMC41	425.00
4	100	200	200	JA 2½	WMC41	425.00
4	100	150	150	J 2½	WMC41	425.00
4	100	200	200	J 2½	WMC41	425.00

Available with starter and circuit breaker.

Circuit Breakers: Circuit breakers manufactured by General Electric, ITE, Square D, Westinghouse.

Motor Starters: Manufactured by Square D, General Electric, Cutler-Hammer, Westinghouse, Allen-Bradley.

*Cutler-Hammer size 3 starter requires special Conduit. Information on request.

**CROUSE-HINDS CIRCUIT BREAKERS
EFD SERIES CIRCUIT BREAKER ENCLOSURES**

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 5, 7CD, 9EFG) Groups E, F, and G; and Class III (NEMA Types IX and V)

Furnished with Single Pole, 115-Volt A.C., Type MO Multi-Breakers



Cat. No.	List Each	Amp. Rating	Size Hubs	Cat. No.	List Each
Dead End Single-Gang					
EFD-1515G	\$21.30	15	½	EFD-1515G	\$21.50
2515G	21.40		¾	2515G	21.70
3515G	21.60		1	3515G	22.20
Through-Feed Single-Gang					
1516G	21.30	20	½	1516G	21.50
2516G	21.40		¾	2516G	21.70
3516G	21.60		1	3516G	22.20
Through-Feed Single-Gang					
.....	.....	30	½	1517G	21.50
2517G	21.40		¾	2517G	21.70
3517G	21.60		1	3517G	22.20



Cat. No.	List Each	Amp. Rating	Size Hubs	Cat. No.	List Each
Dead End Two-Gang					
EFD-1525G	\$42.60	15	½	EFDC-1525G	\$42.90
2525G	42.70		¾	2525G	43.10
3525G	43.00		1	3525G	43.50
Through-Feed Two-Gang					
1526G	42.60	20	½	1526G	42.90
2526G	42.70		¾	2526G	43.10
3526G	43.00		1	3526G	43.50
Through-Feed Two-Gang					
.....	.....	30	½	1527G	42.90
2527G	42.70		¾	2527G	43.10
3527G	43.00		1	3527G	43.50

DISCOUNTS: UNDER \$100, 18%—\$100-299.99, 23%—\$300 and OVER, 34%

CROUSE-HINDS CIRCUIT BREAKERS
TYPE EPC AIR BREAK CIRCUIT BREAKER ENCLOSURES

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight), and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 4, 5, 7CD, 9EFG)



Type EPC enclosures with air break circuit breakers, are suitable for service entrance, feeder, or branch circuit protection, for lighting, appliance, and motor circuit conductors; but are not intended as substitutes for motor running protective devices.

For manual closing, opening, or resetting, an external handle is provided with name plates indicating whether the breaker is "on" "off", or "tripped."

50 and 100-Ampere "E" Frame with Non-Interchangeable Thermal-Magnetic Trip

Without Circuit Breaker
240 Volts—A.C. Maximum

Poles	Voltage Rating	Nom. Dia.	Int. Hubs	Size	Cat. No.	List Each
1	120-V.A.C. or 125-V.D.C.	5	1		EPC45	\$90.00
2	240-V.A.C. or 125-V.D.C.	5	1		EPC432	90.00

With Circuit Breaker

Takes GE or Westinghouse Circuit Breakers

120-V.A.C. or 125-V.D.C.

Amps.	Size Hubs	Poles	Cat. No.	List Each
15			EPC45-*15E-1	\$100.00
20			EPC45-*20E-1	100.00
30	1	1	EPC45-*30E-1	100.00
40			EPC45-*40E-1	100.00
50			EPC45-*50E-1	100.00
15			EPC434-**15E-1	\$100.00
20			EPC434-**20E-1	100.00
30	1	1	EPC434-**30E-1	100.00
40			EPC434-**40E-1	100.00
50			EPC434-**50E-1	100.00

240-V.A.C. or 125-V.D.C.

15			EPC432-*15E-2	\$116.00
20			EPC432-*20E-2	116.00
30	1	2	EPC432-*30E-2	116.00
40			EPC432-*40E-2	116.00
50			EPC432-*50E-2	116.00
15			EPC434-**15E-2	\$116.00
20			EPC434-**20E-2	116.00
30	1	2	EPC434-**30E-2	116.00
40			EPC434-**40E-2	116.00
50			EPC434-**50E-2	116.00

*Takes G.E. or Westinghouse Circuit breakers. Insert symbol TT for G.E. circuit breaker or WT for Westinghouse circuit breaker.

**Takes Square D circuit breaker. Insert symbol DT in catalog number.

Manufacturer	For 50 and 100 Ampere "E" Frame	Symbol
General Electric	TE	TT
ITE	E	UT
Square D	ML or MLI	DT
Westinghouse	E	WT

A separate replaceable mounting bracket is attached to the rear of the center section. The top cover has female threads and is skirted to effectively shed water; the bottom cover has male threads for the same purpose. Both covers are equipped with notches and the body with a pry bracket to easily loosen the covers when removal is necessary. Interior mounting plates are supplied with all necessary holes and mounting screws to accommodate directly circuit breakers as listed.

Three padlocks may be used to lock the circuit breaker in either "on" or "off" positions. As the circuit breaker is trip free of the handle, locking in the "on" position does not prevent the breaker opening due to overload or short circuit; but the breaker then cannot be reset without removing the padlock.

EPCB Series available for Class I, Group B (Hydrogen).

50 and 100-Ampere "E" Frame with Non-Interchangeable Thermal-Magnetic Trip

Without Circuit Breaker
240 Volts—A.C. Maximum

Poles	Voltage Rating	Nom. Dia.	Int. Hubs	Size	Cat. No.	List Each
2	240-V.A.C. or 125-V.D.C.	7	1 1/4		EPC377	\$110.00
					EPC387	130.00
3	240-V.A.C. or 125-V.D.C.	7	1 1/4		EPC377	\$110.00
					EPC387	130.00

With Circuit Breaker

Takes GE or Westinghouse Circuit Breakers

240-V.A.C. or 125-250-V.D.C.

Amps.	Size Hubs	Poles	Cat. No.	List Each
15			EPC377-*15E-2	\$136.00
20			EPC377-*20E-2	136.00
30			EPC377-*30E-2	136.00
40	1 1/4	2	EPC377-*40E-2	136.00
50			EPC377-*50E-2	136.00
70			EPC377-*70E-2	154.00
90			EPC377-*90E-2	154.00
100			EPC377-*100E-2	154.00
70			EPC387-*70E-2	\$174.00
90	2	2	EPC387-*90E-2	174.00
100			EPC387-*100E-2	174.00
15			EPC377-*15E-3	\$149.00
20			EPC377-*20E-3	149.00
30			EPC377-*30E-3	149.00
40	1 1/4	3	EPC377-*40E-3	149.00
50			EPC377-*50E-3	149.00
70			EPC377-*70E-3	167.00
90			EPC377-*90E-3	167.00
100			EPC377-*100E-3	167.00
70			EPC387-*70E-3	\$187.00
90	2	3	EPC387-*90E-3	187.00
100			EPC387-*100E-3	187.00

*Circuit Breakers: These enclosures will accommodate General Electric, ITE, Square D and Westinghouse Circuit Breakers. Insert the proper symbol in the catalog number for the circuit breaker manufacturer desired.

Manufacturer	For 50 and 100 Ampere "E" Frame	Symbol
General Electric	TE	TT
ITE	E	UT
Square D	ML or MLI	DT
Westinghouse	E	WT

DISCOUNTS: UNDER \$100, 18% — \$100-299.99, 23% — \$300 and OVER, 34%

CROUSE-HINDS CIRCUIT BREAKERS
TYPE EPC AIR BREAK CIRCUIT BREAKER ENCLOSURES

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight) and Weather Resistant — Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 4, 5, 7CD, 9EFG)

100-Ampere "EH" Frame with Non-Interchangeable Thermal-Magnetic Trip 480 Volts A.C. Maximum

Without Circuit Breaker					
Poles	Voltage Rating	Nom. Int. Size	Cat. No.	List Each	
2	480-V. A.C. or	7 1/4	EPC377	\$110.00	
	250 V. D.C.	2	EPC387	130.00	
3	480-V. A.C. or	7 1/4	EPC377	\$110.00	
	250-V. D.C.	2	EPC387	130.00	

With Circuit Breaker					
480-V. A.C. or 250-V. D.C.					
Amps.	Size Hubs	Poles	Cat. No.	List Each	
15			EPC377-*15EH-2	\$156.00	
20			EPC377-*20EH-2	156.00	
30			EPC377-*30EH-2	156.00	
40	1 1/4	2	EPC377-*40EH-2	156.00	
50			EPC377-*50EH-2	156.00	
70			EPC377-*70EH-2	168.00	
90			EPC377-*90EH-2	168.00	
100			EPC377-*100EH-2	168.00	
70	2	2	EPC387-*70EH-2	\$188.00	
90			EPC387-*90EH-2	188.00	
100			EPC387-*100EH-2	188.00	
15			EPC377-*15EH-3	\$167.00	
20			EPC377-*20EH-3	167.00	
30			EPC377-*30EH-3	167.00	
40	1 1/4	3	EPC377-*40EH-3	167.00	
50			EPC377-*50EH-3	167.00	
70			EPC377-*70EH-3	181.00	
90			EPC377-*90EH-3	181.00	
100			EPC377-*100EH-3	181.00	
70	2	3	EPC387-*70EH-3	\$201.00	
90			EPC387-*90EH-3	201.00	
100			EPC387-*100EH-3	201.00	

*Circuit Breakers: These enclosures will accommodate General Electric, ITE, Square D and Westinghouse Circuit Breakers. Insert the proper symbol in the catalog number for the circuit breaker manufacturer desired.

Manufacturer	For 100-Ampere "EH" Frame	Symbol
General Electric	TEF	TT
ITE	EH	UT
Square D	MLI-EH	DT
Westinghouse	EH	WT

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight) and Weather Resistant — Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 4, 5, 7CD, 9EFG)

100-Ampere "F" Frame with Non-Interchangeable Thermal-Magnetic Trip 600 Volts A.C. Maximum

Without Circuit Breaker					
Poles	Voltage Rating	Nom. Int. Size	Cat. No.	List Each	
2	600-V. A.C. or	7 1/4	EPC377	\$110.00	
	250-V. D.C.	2	EPC387	130.00	
3	600-V. A.C. or	7 1/4	EPC377	\$110.00	
	250-V. D.C.	2	EPC387	130.00	

With Circuit Breaker					
600-V. A.C. or 250-V. D.C.					
Amps.	Size Hubs	Poles	Cat. No.	List Each	
15			EPC377-*15F-2	\$168.00	
20			EPC377-*20F-2	168.00	
30			EPC377-*30F-2	168.00	
40	1 1/4	2	EPC377-*40F-2	168.00	
50			EPC377-*50F-2	168.00	
70			EPC377-*70F-2	181.00	
90			EPC377-*90F-2	181.00	
100			EPC377-*100F-2	181.00	
70	2	2	EPC387-*70F-2	201.00	
90			EPC387-*90F-2	201.00	
100			EPC387-*100F-2	201.00	
15			EPC377-*15F-3	181.00	
20			EPC377-*20F-3	181.00	
30			EPC377-*30F-3	181.00	
40	1 1/4	3	EPC377-*40F-3	181.00	
50			EPC377-*50F-3	181.00	
70			EPC377-*70F-3	198.00	
90			EPC377-*90F-3	198.00	
100			EPC377-*100F-3	198.00	
70	2	3	EPC387-*70F-3	218.00	
90			EPC387-*90F-3	218.00	
100			EPC387-*100F-3	218.00	

*Circuit Breakers: These enclosures will accommodate General Electric, ITE, Square D and Westinghouse Circuit Breakers. Insert the proper symbol in the catalog number for the circuit breaker manufacturer desired.

Manufacturer	For 100-Ampere "F" Frame	Symbol
General Electric	TF	TT
ITE	F	UT
Square D	MLI	DT
Westinghouse	F	WT

DISCOUNTS: UNDER \$100, 18% — \$100-299.99, 23% — \$300 and OVER, 34%

TYPE GUSC CIRCUIT BREAKER LOAD CENTER ENCLOSURES

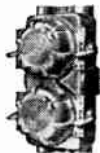
Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Group B and D; Class II, Groups E, F, and G; and Class III (NEMA Types 3, 3R, 5, 7D, 9EFG)*

Furnished with Thermal-Magnetic "Quicklag" Circuit Breakers, 125-250 Volts A.C.



Type GUSC Single-Gang



Type GUSC Two-Gang

Circuit Breaker Information				Conduit With Circuit Breaker Neutral Connection Block Grounded	
No. Breakers	Poles	Ampere Rating	Size Hub	Cat. No.	List Each
Type GUSC Single-Gang*					
1	1	10††	1	GUSC3110-10	\$39.00
1	1	15††	1	GUSC3110-15	39.00
2	1	10††	1	GUSC3210-10	49.00
2	1	15††	1	GUSC3210-15	49.00
1	2	10††	1	GUSC3120-10	42.00
1	2	15††	1	GUSC3120-15	42.00
Type GUSC Two-Gang					
3	1	10††	1	GUSC3310-10	82.00
3	1	15††	1	GUSC3310-15	82.00
4	1	10††	1	GUSC3410-10	92.00
4	1	15††	1	GUSC3410-15	92.00
2	2	10††	1	GUSC3220-10	79.00
2	2	15††	1	GUSC3220-15	79.00

†Enclosures with 20 or 30-ampere breakers can be furnished at the same list prices.

*Single-Gang GUSC also suitable for Class I, Group C locations. ††Single-Gang with 20, 30 or 40-ampere breakers and Two-Gang with 20 or 30-ampere breakers can be furnished at the same list prices.

DISCOUNTS: UNDER \$100, 0 — \$100-299.99, 10% — \$300 and OVER, 26%

CROUSE-HINDS ENCLOSED AND GASKETED (VAPORTIGHT) INDUSTRIAL LIGHTING FIXTURES
V SERIES — SCREW GUARD TYPE

Form 100 is furnished with No. V75 globe and No. V911 guard, and takes 50, 60, 75, or 100-watt lamps.

Form 200 furnished with No. V200 globe and No. V912 guard and takes 150 or 200 watt lamps.

Cast aluminum guards; cast Feraloy fixtures.

		Type V Form 100		Type V Form 200	
Size In.	Cat. No.	With Globe and Guard		Without Globe and Guard	
		List Each	Cat. No.	List Each	Cat. No.
1/2	V1759	9.50	V175*	\$3.80	
3/4	V2759	9.60	V275*	3.90	
1	V3759	9.70	V375	4.00	
Type VC					
		Form 100		Form 200	
1/2	VC1759	\$9.70	VC175*	\$4.00	
3/4	VC2759	9.90	VC275*	4.20	
1	VC3759	10.10	VC375	4.40	
Type VL					
		Form 100		Form 200	
1/2	VL1759	\$9.70	VL175	\$4.00	
3/4	VL2759	9.90	VL275	4.20	
Type VT					
		Form 100		Form 200	
1/2	VT1759	\$10.00	VT175	\$4.30	
3/4	VT2759	10.30	VT275	4.60	
Type VX					
		Form 100		Form 200	
1/2	VX1759	\$10.20	VX175	\$4.50	
3/4	VX2759	10.60	VX275	4.90	
Type VDA					
		Form 100		Form 200	
1/2	VDA-1759*	\$9.50	VDA-175*	\$3.80	
3/4	2759*	9.60	275*	3.90	
1	3759	9.70	375	4.00	
Type VG					
		Form 100		Form 200	
1/2	VG1759	\$10.00	VG175*	\$4.30	
3/4	VG2759	10.20	VG275*	4.50	
Type VJ					
		Form 100		Form 200	
1/2	VJ1759	\$10.80	VJ175	\$5.10	
3/4	VJ2759	11.00	VJ275	5.30	

*Add suffix "SA" for copper-free aluminum.

CROUSE-HINDS ENCLOSED AND GASKETED (VAPORTIGHT) INDUSTRIAL LIGHTING FIXTURES
V SERIES — SCREW GUARD TYPE

Size In.	Cat. No.	With Globe and Guard		Without Globe and Guard	
		List Each	Cat. No.	List Each	Cat. No.
Type VD					
Form 100					
1/2	VD1759	\$10.80	VD175	\$5.10	
3/4	VD2759	11.00	VD275	5.30	
1	VD3759	11.20	VD375	5.50	
Form 200					
1/2	VD12009	12.70	VD1200	5.70	
3/4	VD22009	12.90	VD2200	5.90	
1	VD32009	13.10	VD3200	6.10	
Type VJ					
Form 100					
1/2	VJ1759	\$10.80	VJ175	\$5.10	
3/4	VJ2759	11.00	VJ275	5.30	
Form 200					
1/2	VJ12009	\$12.70	VJ1200	\$5.70	
3/4	VJ22009	12.90	VJ2200	5.90	

Forms 100 and 200 indicate sizes of fixtures. Accessories and parts are correspondingly classified. Guards are made of cast aluminum; fixtures of cast Feraloy®.

*Add suffix "SA" for copper-free aluminum.

ACCESSORIES AND PARTS

For V Series Fixtures, Screw Guard Type Globes

Globe	Form 100		Form 200	
	5 5/8 In. Long Cat. No.	List Each	6 3/4 In. Long Cat. No.	List Each
Clear	V18	\$2.10	V75	\$2.10
Opal			VN71	4.00
Green			VN72	4.00
Blue			VN73	4.00
Red			VN75	4.00
Amber			VN76	4.00
Heat-Resisting Globes				
Clear	V183	\$2.50	V63	\$2.50
			V93	\$4.00

Pear-Shaped Globes

Clear globes. Cannot be used with straight guards.

Cat. No.	Form 100		Lamp Size Watts
	List Each	Form 200	
V105	\$2.10		50, 60, 75, 100
V205	\$2.50		150
V205	2.50		200-300

Guards for Use With Pear-Shaped Globes

For Globe In.	Cast Aluminum		Steel	
	Cat. No.	List Each	Cat. No.	List Each
5 5/8	V910	\$3.60		
6 3/4	V911	3.60	V911	\$3.60
9 1/4	V912	4.50	V912	4.50

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS VAPORGARD*
VAPORTIGHT FIXTURES**

Enclosed and Gasketed



VDA
With Globe, Guard
& Dome Reflector



VDC
With Globe, Guard &
30° Angle Reflector



VXHF
With Globe, Guard &
Shallow Bowl Reflector



VXH
With Globe, Guard
& Dome Reflector

VDA SERIES (Pendant Type)

Hub Size	With Globe, Guard & Dome Reflector		With Globe, Guard & Shallow Bowl Reflector		With Globe, Guard & 30° Angle Reflector	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each

Max. Lamp Size: A-21

Hub Size	VDA-15GPRD	VDA-15GPRS	VDA-14.00	VDA-15GPRA	VDA-13.50
1/2	15.00	15GPRS	14.00	15GPRA	13.50
3/4	25GPRD	15.10	25GPRS	14.10	25GPRA
1	35GPRD	15.20	35GPRS	14.20	35GPRA

Max. Lamp Size: PS-25

Hub Size	VDA-12GPRD	VDA-12GPRS	VDA-18.20	VDA-12GPRA	VDA-18.70
1/2	12GPRD	19.20	12GPRS	18.20	12GPRA
3/4	22GPRD	19.30	22GPRS	18.30	22GPRA
1	32GPRD	19.40	32GPRS	18.40	32GPRA

Max. Lamp Size: PS-30

Hub Size	VDA-13GPRD	VDA-13GPRS	VDA-19.30	VDA-13GPRA	VDA-18.70
1/2	13GPRD	20.30	13GPRS	19.30	13GPRA
3/4	23GPRD	20.40	23GPRS	19.40	23GPRA
1	33GPRD	20.50	33GPRS	19.50	33GPRA

VDC SERIES (Through Feed Type)

Max. Lamp Size: A-21

Hub Size	VDC-13GPR-	VDC-13GPRS-	VDC-20.10	VDC-13GPR-	VDC-19.50
1/2	13GPR-	21.10	13GPRS-	20.10	AHR
3/4	23GPR-	21.30	23GPRS-	20.30	AHR
1	33GPR-	21.50	33GPRS-	20.50	AHR

Max. Lamp Size: BT-28 Mercury Vapor

Hub Size	VDAM-13GPR-	VDAM-13GPRS-	VDAM-20.10	VDAM-13GPR-	VDAM-19.50
1/2	13GPR-	21.10	13GPRS-	20.10	AHR
3/4	23GPR-	21.30	23GPRS-	20.30	AHR
1	33GPR-	21.50	33GPRS-	20.50	AHR

VXHF SERIES (Cell. Box Mtg. Type w/Junc. Box)

Max. Lamp Size: A-21

Hub Size	VXHF-15GPRD	VXHF-15GPRS	VXHF-14.00	VXHF-15GPRA	VXHF-13.50
1/2	15GPRD	16.20	15GPRS	15.20	15GPRA
3/4	25GPRD	16.40	25GPRS	15.40	25GPRA

Max. Lamp Size: PS-25

Hub Size	VXHF-12GPRD	VXHF-12GPRS	VXHF-18.00	VXHF-12GPRA	VXHF-18.50
1/2	12GPRD	20.40	12GPRS	19.40	12GPRA
3/4	22GPRD	20.60	22GPRS	19.60	22GPRA

VXH SERIES (Ceiling Box Mounting Type)

Max. Lamp Size: A-21

Hub Size	VXH-15GPRD	VXH-15GPRS	VXH-13.40	VXH-15GPRA	VXH-12.90
....	15GPRD	14.40	15GPRS	13.40	15GPRA
....	12GPRD	18.60	12GPRS	17.60	12GPRA

*Trade-Mark.

**CROUSE-HINDS ENCLOSED AND
GASKETED (VAPORTIGHT)
INDUSTRIAL LIGHTING FIXTURES**

TYPES ARB AND VGR

Enclosed and Gasketed (Vaportight)

For flush mounted SE, SEH, and SK series fittings or 3/4 or 4-inch octagonal outlet boxes.†

Screw Guard Type

Form 100 is furnished with Globe V75 and Guard V911, and takes 50, 60, 75, or 100-watt Lamps.

Form 200, is furnished with Globe V200 and Guard V912, and takes 150 or 200-watt Lamps.



Cat. No.	With Globe and Guard		Without Globe and Guard	
	List Each	Form 100	List Each	Form 200
ARB31	\$9.60		ARB32*	\$3.90
ARB33	11.40		ARB34*	4.40



Cat. No.	With Globe and Guard		Without Globe and Guard	
	List Each	Form 100	List Each	Form 200
VGR116	11.00		VGR110	5.30
VGR216	12.90		VRG210	5.90

†Type VGR bracket fixtures can be furnished without overhang for surface mounting on SEH series fittings or outlet boxes at no additional charge. Catalog numbers on request.

*Add suffix "SA" for copper-free aluminum.

TYPE VXHA

Screw Guard Type
Class III

Has five hubs flush with surface of the body. The hubs have integral bushings. Four of the hubs are spaced 90° apart around the side while the fifth hub is placed in the center of the top. Furnished with four flush type threaded pipe plugs.

Form 100 furnished with V75 globe, and takes 50, 60, 75, or 100-watt lamps. Screw guard type has V911 guard.

Form 200 furnished with V200 globe and takes 150- or 200-watt lamps. Screw guard type has V912 guard.

Cast aluminum guards. Cast Feraloy body.



Size In.	With Globe and Guard		Without Globe and Guard	
	Cat. No.	List Each	Cat. No.	List Each
		Form 100		
1/2	VXHA-1199	\$10.70	VXHA-119	\$5.00
3/4	2199	11.10	219	5.40
1	3199	11.50	319	5.80
		Form 200		
1/2	VXHA-1299	12.80	VXHA-129	\$5.80
3/4	2299	13.20	229	6.20
1	3299	13.60	329	6.60

Forms 100 and 200 indicate sizes of vaportight fixtures. Accessories and parts are correspondingly classified.

If specified, lamp receptacle with lamp grip will be furnished at an advance of 20 cents in list price.

If specified, pigtail receptacle will be furnished at an advance of 90 cents in list price.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS VAPORTIGHT INDUSTRIAL LIGHTING FIXTURES

ACCESSORIES AND PARTS

For V Series Fixtures, Screw Guard Type

‡Reflector Holders



Cast Aluminum

Sheet Aluminum



Cat. No.	List Each	Form	Cat. No.	List Each	Form	For Guard No.
V623	\$1.00	100	V916	\$1.00	V910	
V624	1.30	200	V918	1.00	V911	
			V919	2.00	V912	

Dome Reflectors



Shallow Bowl Reflectors



Cat. No.	List Each	Lamp Size Watts	Form 100		Cat. No.	List Each	Form 200	
			Dia. In.	Dpth. In.			Dia. In.	Dpth. In.
SH-27	\$5.50	50, 60 75, 100	12	4 1/4	SH-57	\$4.50	12	2 7/8
28	\$6.50	150	14	5 7/8	58	\$5.50	14	4 1/4
29	7.50	200	16	7	59	6.50	16	5 1/4

30° Angle Reflectors



Lamp Size Watts	Cat. No.	List Each	Dia. In.	Dpth. In.
Form 100				
50, 60 75, 100	SH-67	\$4.00	10	7 3/4
Form 200				
150	†68	7.00	12	9 3/4



Receptacles
660 Watts, 600 Volts
Forms 100 and 200



Cat. No.	List Each	Keyless		Shock-Absorbing	
		Material	Cat. No.	List Each	
V46	\$1.30	Porcelain			
GS126M2	1.30	Composition	V57	\$2.50	

‡For clamping reflector when guard is not used.
Reflectors are white porcelain enamel.
*Cannot be used with VD, VG, and VJ fixtures.
†SH68 may be used with 200 and 300 watt lamps.

ACCESSORIES FOR TYPE VDB FIXTURES

Clear Pear-Shaped Globes



Cat. No.	Plain		Heat-Resisting	
	List Each		Cat. No.	List Each
300, 500 Watts Form 5				
VDB5	\$3.80		VDB8	\$7.00

Basket Wire Guards



Steel wire.
For use with reflectors for V, VDB and VH series.

For size Reflector, In.	12	14	16	18
Cat. No.	V932	V934	V936	V938
List, Each	\$3.70	\$4.20	\$4.80	\$5.30

CROUSE-HINDS VAPORTIGHT INDUSTRIAL LIGHTING FIXTURES

TYPE VDB FIXTURES WITH REFLECTORS

Type VDB is an industrial fixture of the vaportight type, designed to meet the need for a simple, effective, and sturdy vaportight industrial lighting fixture.

Furnished with a clear, plain pear-shaped globe, and a porcelain enameled reflector. The reflector is held to the body by four screws.

Form 3 furnished with VDB3 globe, reflector, and medium base lamp receptacle V46.

Form 5 furnished with VDB5 globe, reflector, and mogul base lamp receptacle C206.



Lamp Watts	Size	Cat. No.	List Each
Form 3			
With Dome Reflector			
150	1/2	VDB138	\$13.00
150	3/4	VDB238	13.10
200, 300†	1/2	VDB139	16.00
200, 300†	3/4	VDB239	16.10

Lamp Watts	Size	Cat. No.	List Each
Reflectors Only			
150	14"	VDB28	4.00
200, 300†	16"	VDB29	7.00

Lamp Watts	Size	Cat. No.	List Each
Form 5			
With Dome Reflector			
300, 500	1/2	VDB15	19.80
300, 500	3/4	VDB25	19.90

Lamp Watts	Size	Cat. No.	List Each
Reflector Only			
300, 500	18"	VDB115	8.50

Lamp Watts	Size	Cat. No.	List Each
Form 5			
With Deep Bowl Reflector			
300, 500	1/2	VDB137	16.60
300, 500	3/4	VDB237	16.70

Lamp Watts	Size	Cat. No.	List Each
Reflector Only			
300, 500	12"	VDB225	5.30

Lamp Watts	Size	Cat. No.	List Each
Form 3			
With Shallow Bowl Reflector			
150	1/2	VDB13	13.50
150	3/4	VDB23	13.60
200, 300†	1/2	VDB17	16.00
200, 300†	3/4	VDB27	16.10

Lamp Watts	Size	Cat. No.	List Each
Reflectors Only			
150	14"	VDB113	4.50
200, 300†	16"	VDB117	7.00

Lamp Watts	Size	Cat. No.	List Each
Form 5			
With Shallow Bowl Reflector			
300, 500	1/2	VDB16	19.80
300, 500	3/4	VDB26	19.90

Lamp Watts	Size	Cat. No.	List Each
Reflector Only			
300, 500	18"	VDB19	8.50

Lamp Watts	Size	Cat. No.	List Each
Form 3			
With 30° Angle Reflector*			
150, 200	1/2	VDB143	14.20
300†	3/4	VDB243	14.30

Lamp Watts	Size	Cat. No.	List Each
Reflector Only			
150, 200	12"	VDB213	5.20

Lamp Watts	Size	Cat. No.	List Each
Form 5			
With 30° Angle Reflector*			
300, 500	1/2	VDB145	18.80
300, 500	3/4	VDB245	18.90

Lamp Watts	Size	Cat. No.	List Each
Reflector Only			
300, 500	14"	VDB215	7.50

In locations where excessive vibration occurs, a bail is recommended; if specified on the order, will be furnished at an advance in the list price of \$1.50 for Form 3, and \$2.00 for Form 5.

†300-watt takes PS-30 medium base lamp.

*Center line of fixture must be located 5 inches from the wall for mounting angle reflector.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS VAPORGARD* VAPORTIGHT FIXTURES

Low cost installation and maintenance. No screws to remove. Globe-guard assembly removes and installs as unit. Ventilated reflector clips on. Attractive Blue-Gray finish.

Glare-free—more even light distribution. Prismatic globe has vertical fluting and stippled bottom. Versatile socket—offset strap is reversible. Permits use of various size lamps while holding light center in same position for maximum light output.



VDA SERIES (Pendant Type)

Hub Size	Without Globe and Guard		With Globe Only		With Globe and Guard	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
	Max. Lamp Size: A-21					
	VDA		VDA		VDA	
1/2	15	\$3.80	15G	\$5.90	15GP	\$9.50
3/4	25	3.90	25G	6.00	25GP	9.60
1	35	4.00	35G	6.10	35GP	9.70
	Max. Lamp Size: PS-25					
1/2	12	4.70	12G	7.20	12GP	11.70
3/4	22	4.80	22G	7.30	22GP	11.80
1	32	4.90	32G	7.40	32GP	11.90
	Max. Lamp Size: PS-30					
1/2	13	4.70	13G	8.00	.....	.....
3/4	23	4.80	23G	8.10	.....	.....
1	33	4.90	33G	8.20	.....	.....
	Max. Lamp Size: BT-28 Mercury Vapor					
	VDAM		VDAM			
1/2	13	5.00	13GHR	8.80	.....	.....
3/4	23	5.20	23GHR	9.00	.....	.....
1	33	5.40	33GHR	9.20	.....	.....

VDC SERIES (Through-Feed Type)

Hub Size	Without Globe and Guard		With Globe Only		With Globe and Guard	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
	Max. Lamp Size: A-21					
	VDC		VDC		VDC	
1/2	15	3.80	15G	5.90	15GP	9.50
3/4	25	4.00	25G	6.10	25GP	9.70
	Max. Lamp Size: PS-25					
1/2	12	4.50	12G	7.00	12GP	11.50
3/4	22	4.70	22G	7.20	22GP	11.70

VXHF SERIES (Ceiling Box Mtg. Type w/Junc. Box)

Hub Size	Without Globe and Guard		With Globe Only		With Globe and Guard	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
	Max. Lamp Size: A-21					
	VXHF		VXHF		VXHF	
1/2	15	5.00	15G	7.10	15GP	10.70
3/4	25	5.20	25G	7.30	25GP	10.90
	Max. Lamp Size: PS-25					
1/2	12	5.90	12G	8.40	12GP	12.90
3/4	22	6.10	22G	8.60	22GP	13.10

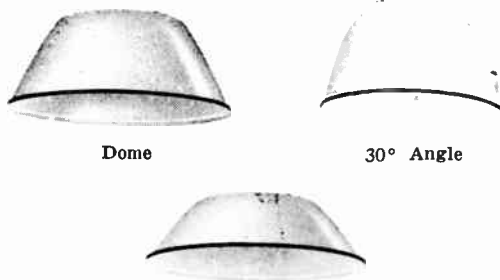
* Trade Mark

CROUSE-HINDS VAPORGARD* VAPORTIGHT FIXTURES

Hub Size	Without Globe and Guard		With Globe Only		With Globe and Guard	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
	Max. Lamp Size: A-21					
	VXHT		VXHT		VXHT	
1/2	15	\$5.30	15G	\$7.40	15GP	\$11.00
3/4	25	5.50	25G	7.60	25GP	11.20
	Max. Lamp Size: PS-25					
1/2	12	6.20	12G	8.70	12GP	13.20
3/4	22	6.40	22G	8.90	22GP	13.40
	Max. Lamp Size: A-21					
	VXHBF		VXHBF		VXHBF	
1/2	15	7.00	15G	9.10	15GP	12.70
3/4	25	7.20	25G	9.30	25GP	12.90
	Max. Lamp Size: PS-25					
1/2	12	7.90	12G	10.40	12GP	14.90
3/4	22	8.10	22G	10.60	22GP	15.10
	Max. Lamp Size: A-21					
	VXH		VXH		VXH	
.....	15	3.20	15G	5.30	15GP	8.90
.....	12	4.10	12G	6.60	12GP	11.10
	Max. Lamp Size: PS-25					
	VXHB		VXHB		VXHB	
.....	15	6.70	15G	8.80	15GP	12.40
.....	12	7.60	12G	10.10	12GP	14.60

*Fits Crouse-Hinds VXF, GRF, and SEH series boxes, or 3 1/4" and 4" outlet boxes.

CROUSE-HINDS VAPORGARD* FIXTURE ACCESSORIES AND PARTS REFLECTORS



Dome

30° Angle



Shallow Bowl

Cat. No.	Dome		Shallow Bowl		30° Angle	
	List Each	Max. Lamp Size	List Each	Max. Lamp Size	List Each	Max. Lamp Size
RD50	\$5.50	A-23 Incandescent	RS50	\$4.50	RA50	\$4.00
RD20	7.50	PS-30 Incand. and BT-28 Merc. Vapor	RS20	6.50	RA20	7.00

GUARDS



Guard P50 and P20



Guard V932 and V936

Cat. No.	A-23 Incand.		PS-25 Incand.		BT-28 Merc. Vapor PS30 Incand.	
	List Each	Max. Lamp Size	List Each	Max. Lamp Size	List Each	Max. Lamp Size
P50	\$3.60	A-23 Incand.	P20	\$4.50	V932†	\$3.70
					V936†	4.80

†V932 used with RA20, V936 used with RD20 and RS20.

* Trade Mark

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

**CROUSE-HINDS VAPORGARD*
FIXTURE ACCESSORIES AND PARTS**

GLOBES



Globe For A-23 and PS-25

Globe for PS-30 and BT-28

Color	A-23 Incand.		PS-25 Incand.		BT-28 Merc. Vapor, PS-30 Incand.	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
Clear	G53	\$2.10	G23	\$2.50	G33	\$3.30
Green	G55	3.40	G25	4.70	.....	.....
Blue	G56	3.40	G26	4.70	.....	.....
Red	G57	3.40	G27	4.70	.....	.....
Amber	G58	3.40	G28	4.70	.....	.....
Clear Heat Resisting	G54	3.40	G24	4.70	G34	3.80

RECEPTACLES WITH STRAPS



PS-25 Incand. Cat. No. V84 List Each \$0.90

PS-30 Incand. Cat. No. V88 List Each \$0.90

BT-28 Merc. Vapor Cat. No. V89 List Each \$1.50

JUNCTION BOXES AND BRACKET BODIES WITH GASKET



VXF

VXFT



VXT

VXB

Hub Size	4 Hubs, 3 Plugs		5 Hubs, 4 Plugs		3 Hubs, 2 Plugs	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
1/2	VXF10	\$1.80	VXFT10	\$2.00	VXT10	\$2.10
3/4	VXF20	2.00	VXFT20	2.20	VXT20	2.30
1/2	No Hubs VXB10*				3.50	

*VXB10 bracket body is designed for wall mounting. Catalog number includes gaskets and adapter plate.

*Trade-Mark.

**CROUSE-HINDS VAPORGARD*
VAPORTIGHT FIXTURES**

Enclosed and Gasketed



VDA With Globe & Shallow Bowl Reflector

VDC With Globe & Dome Reflector



VXHF With Globe & 30° Angle Reflector

VXH With Globe & Shallow Bowl Reflector

VDA SERIES (Pendant Type)

Hub Size	With Globe & Dome Reflector		With Globe & Shallow Bowl Reflector		With Globe & 30° Angle Reflector	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
Max. Lamp Size: A-21						
1/2	VDA-15GRD	\$11.40	VDA-15GRS	\$10.40	VDA-15GRA	\$9.90
3/4	25GRD	11.50	25GRS	10.50	25GRA	10.00
1	35GRD	11.60	35GRS	10.60	35GRA	10.10
Max. Lamp Size: PS-25						
1/2	12GRD	14.70	12GRS	13.70	12GRA	14.20
3/4	22GRD	14.80	22GRS	13.80	22GRA	14.30
1	32GRD	14.90	32GRS	13.90	32GRA	14.40
Max. Lamp Size: PS-30						
1/2	13GRD	15.50	13GRS	14.50	13GRA	15.00
3/4	23GRD	15.60	23GRS	14.60	23GRA	15.10
1	33GRD	15.70	33GRS	14.70	33GRA	15.20
Max. Lamp Size: BT-28 Mercury Vapor						
1/2	VDAM-13GR-DHR	16.30	VDAM-13GR-SHR	15.30	VDAM-13GR-AHR	15.80
3/4	23GR-DHR	16.50	23GR-SHR	15.50	23GR-AHR	16.00
1	33GR-DHR	16.70	33GR-SHR	15.70	33GR-AHR	16.20

VDC SERIES (Through Feed Type)

Hub Size	With Globe & Dome Reflector		With Globe & Shallow Bowl Reflector		With Globe & 30° Angle Reflector	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
Max. Lamp Size: A-21						
1/2	VDC-15GRD	11.40	VDC-15GRS	10.40	VDC-15GRA	9.90
3/4	25GRD	11.60	25GRS	10.60	25GRA	10.10
Max. Lamp Size: PS-25						
1/2	12GRD	14.50	12GRS	13.50	12GRA	14.00
3/4	22GRD	14.70	22GRS	13.70	22GRA	14.20

VXHF SERIES (Ceil. Box Mtg. w/Junc. Box)

Hub Size	With Globe & Dome Reflector		With Globe & Shallow Bowl Reflector		With Globe & 30° Angle Reflector	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
Max. Lamp Size: A-21						
1/2	VXHF-15GRD	12.60	VXHF-15GRS	11.60	VXHF-15GRA	11.10
3/4	25GRD	12.80	25GRS	11.80	25GRA	11.30
Max. Lamp Size: PS-25						
1/2	12GRD	15.90	12GRS	14.90	12GRA	15.40
3/4	22GRD	16.10	22GRS	15.10	22GRA	15.60

VXH SERIES (Ceiling Box Mtg. Type)

Hub Size	With Globe & Dome Reflector		With Globe & Shallow Bowl Reflector		With Globe & 30° Angle Reflector	
	Cat. No.	List Each	Cat. No.	List Each	Cat. No.	List Each
Max. Lamp Size: A-21						
.....	VXH-15GRD	10.80	VXH-15GRS	9.80	VXH-15GRA	9.30
Max. Lamp Size: PS-25						
.....	12GRD	14.10	12GRS	12.10	12GRA	13.60

*Trade-Mark.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS LIGHTING FIXTURES

EV SERIES

INDUSTRIAL LIGHTING FIXTURES

Explosion-Proof and Weather-Resistant Raintight

Class I, Groups B, C and D

Hoods are cast aluminum with etched alzak aluminum inner reflectors. Globe holder assembly consists of clear, heat-resisting, impact-resisting, glass globe, equipped with sheet aluminum gasket and cast aluminum mounting and retaining rings. Cast aluminum guards are held to globe mounting rings by machine screws. Furnished without reflectors.

Type EVA—Pendent Type

Complete with body for pendent mounting on a conduit stem. A set screw in hub may be tightened against unthreaded part of conduit to prevent unscrewing from conduit when relamping. May be suspended by a conduit stem from GUA or GUF series with three-inch cover opening and GUA fixture covers or canopies.



Watts	Size In.	With Guard		Without Guard	
		Cat. No.	List Each	Cat. No.	List Each
		EVA-		EVA-	
100, A-19	1/2	140	\$36.80	104	\$34.80
	3/4	240	37.00	204	35.00
150,	1/2	110	36.80	101	34.80
200*	3/4	210	37.00	201	35.00
200,	1/2	115	36.80	105	34.80
300†	3/4	215	37.00	205	35.00
‡200/	1/2	120	51.80	102	48.80
300	3/4	220	52.00	202	49.00
\$300,	1/2	136	84.00	163	79.00
500	3/4	230	77.70	203	72.00

Type EVCX—Ceiling Type

Has four threaded hubs, three of which are furnished with pipe plugs.



Watts	Size In.	EVCX-		EVCX-	
		Cat. No.	List Each	Cat. No.	List Each
100, A-19	1/2	140	\$45.00	104	\$43.00
	3/4	240	45.80	204	43.80
150,	1/2	110	45.00	101	43.00
200*	3/4	210	45.80	201	43.80
200,	1/2	115	45.00	105	43.00
300†	3/4	215	45.80	205	43.80
‡200/	1/2	120	60.00	102	57.00
300	3/4	220	60.50	202	57.80
\$300,	1/2	136	84.00	163	79.00
500	3/4	236	84.80	263	79.80

Type EVBX—Bracket Type

Four hubs tapped for rigid conduit are provided, three of which are equipped with threaded pipe plugs.



Watts	Size In.	EBVX-		EBVX-	
		Cat. No.	List Each	Cat. No.	List Each
100, A-19	1/2	140	\$47.80	104	\$45.80
	3/4	240	48.80	204	46.80
150,	1/2	110	47.80	101	45.80
200*	3/4	210	48.80	201	46.80
200,	1/2	115	47.80	105	45.80
300†	3/4	215	48.80	205	46.80
‡200/	1/2	120	64.00	102	61.00
\$300,	1/2	136	84.00	163	79.00
500	3/4	220	65.00	202	62.00

*150-Watt A-21, 200-Watt A-23.

†200-Watt A-25, PS-25, 300-Watt PS-25.

‡PS-30 lamp only; type EVBX takes deep bowl & 30° angle reflectors only.

\$300-Watt PS-35, 500-Watt PS-40 (500-Watt with reflector Group D only, without reflector Group C).

CROUSE-HINDS LIGHTING FIXTURES

EV SERIES

REFLECTOR†

Style Diam. Cat. List
 In. No. Each
 Max. Lamp Size: 100W A-19,
 150W A-21, 200W A-23, 200W
 A-25 and PS-25, 300W PS-25



Dome

Dome	13 3/4	EV581	\$5.40
Deep	10 1/4	EV583‡	5.50
Shallow	13 3/4	EV585	5.40
Slotted			
30° Angle	12 1/8	EV5871	6.00



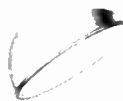
Deep Bowl

Max. Lamp Size: 200/300W PS-30			
Dome	16 1/8	EV281	7.00
Deep	12 1/8	EV283	7.50
Shallow	16 1/8	EV285	7.00
30° Angle	13 3/4	EV287	8.00
High Bay	14 1/2	EV2912	16.00



Shallow Bowl

Max. Lamp Size: 300W PS-35, 500W PS-40			
Dome	20 7/8	EV381	11.00
Deep	16 1/8	EV383	11.00
Shallow	20 1/2	EV385	11.00
30° Angle	16 1/8	EV387	9.00
High Bay	16 3/4	EV3912	22.00



30° Angle

†High bay reflectors are etched Alzak aluminum. Others are all-white, porcelain enameled steel.
 ‡Deep bowl reflectors cannot be used with 300W, PS-25 lamp in Class I, Group C hazardous locations.

TYPE EVA INDUSTRIAL LIGHTING FIXTURES

Explosion-Proof and Weather Resistant—Raintight Factory Sealed

Class I, Groups A, B, C, and D

Provide complete protection when installed in hazardous areas containing acetylene (Group A) and hydrogen (Group B) as well as the gases and vapors of Groups C and D locations.

Lamp and wiring compartments are separate and individually explosion-proof. Flame-tight joints.



Watts	Without Reflector		List Each	
	Size Hub	Cat. No.		
150 or 200	With Guard	3/4	EVA295	\$69.00
	Without Guard	3/4	EVA292	88.00
200 or 300	With Guard	3/4	EVA285	67.00
	Without Guard	3/4	EVA282	85.00



Watts	With Dome Reflector		List Each
	With Guard	Without Guard	
150 or 200	3/4	EVA2951	74.40
	3/4	EVA2921	95.00
150 to 200	3/4	EVA2851	72.40
	3/4	EVA2821	92.00



Watts	With Deep Bowl Reflector		List Each
	With Guard	Without Guard	
150*	3/4	EVA2953	74.50
	3/4	EVA2923	95.50
200 or 300	3/4	EVA2853	72.50
	3/4	EVA2823	92.50



Watts	With Shallow Bowl Reflector		List Each
	With Guard	Without Guard	
150 or 200	3/4	EVA2955	74.40
	3/4	EVA2925	95.00
150 or 200	3/4	EVA2855	72.40
	3/4	EVA2825	92.00



Watts	With 30° Angle Reflector		List Each
	With Guard	Without Guard	
150*	3/4	EVA2957	75.00
	3/4	EVA2927	96.00
150*	3/4	EVA2857	73.00
	3/4	EVA2827	93.00

*For Group C locations only. Fixtures limited to 150-watt lamps.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS LIGHTING FIXTURES

TYPE EVA MERCURY VAPOR FIXTURES

**Explosion-Proof and Weather Resistant
Factory Sealed**

250-Watt—Class 1, Groups B, C and D
400-Watt—Class 1, Groups B and D

EVA mercury vapor fixtures for hazardous locations take 250 watt, Type BT-28 and 400-watt, Type BT-37 mercury vapor lamps. Mercury vapor lamps are particularly suited for high bay applications. High initial lamp costs are repaid time and again by increased lamp life reducing relamping costs, and by greater lumens per watt. Fixture construction is similar to that of standard type EV fixtures for incandescent lamps.



W/o Reflector



W/Dome Reflector



W/Deep Bowl Reflector



W/Shallow Bowl Reflector



W/30° Angle Reflector



W/High Bay Reflector

Watts	Size	With Guard		Without Guard	
		Cat. No.	List Each	Cat. No.	List Each
Without Reflector					
		EVA-		EVA-	
250, BT-28	3/4	22500	\$80.00	2250	\$75.00
	1	32500	80.50	3250	75.50
	1 1/4	42500	81.00	4250	76.00
400, BT-37	3/4	24000	92.00	2400	85.00
	1	34000	90.50	3400	85.50
	1 1/4	44000	91.00	4400	86.00
With Dome Reflector					
250, BT-28	3/4	22511	91.00	22501	86.00
	1	32511	91.50	32501	86.50
	1 1/4	42511	92.00	42501	87.00
400, BT-37	3/4	24011	101.00	24001	96.00
	1	34011	101.50	34001	96.50
	1 1/4	44011	102.00	44001	97.00
With Deep Bowl Reflector					
250, BT-28	3/4	22513	91.00	22503	86.00
	1	32513	91.50	32503	86.50
	1 1/4	42513	92.00	42503	87.00
400, BT-37	3/4	24013	101.00	24003	96.00
	1	34013	101.50	34003	96.50
	1 1/4	44013	102.00	44003	97.00
With Shallow Bowl Reflector					
250, BT-28	3/4	22515	91.00	22505	86.00
	1	32515	91.50	32505	86.50
	1 1/4	42515	92.00	42505	87.00
400, BT-37	3/4	24015	101.00	24005	96.00
	1	34015	101.50	34005	96.50
	1 1/4	44015	102.00	44005	97.00

CROUSE-HINDS LIGHTING FIXTURES

TYPE EVA MERCURY VAPOR FIXTURES

With 30° Angle Reflector

250, BT-28	3/4	22517	89.00	22507	84.00
	1	32517	89.50	32507	84.50
	1 1/4	42517	90.00	42507	85.00
400, BT-37	3/4	24017	99.00	24007	94.00
	1	34017	99.50	34007	94.50
	1 1/4	44017	100.00	44007	95.00

With High Bay Reflector

250, BT-28	3/4	225112	101.00	225012	96.00
	1	325112	101.50	325012	96.50
	1 1/4	425112	100.00	425012	97.00
440, BT-37	3/4	240112	110.00	240012	106.00
	1	340112	113.50	340012	106.50
	1 1/4	440112	112.00	440012	107.00

"RELAMP CHAMP" VAPORGARD*

VMCK Series Quick Conversion Fixture takes less than 5 minutes to convert from incandescent fixture to new mercury fixture. VMV Series normal power factor and VMVH Series high power factor (90% plus) are for new installations.



VMCK Series



VMV Series



VMVH Series

Lamp Watts	Volts	Cat. No.	List Each
VMCK SERIES FOR CONVERSION			
Normal Power Factor (50%). Fits Form 100 V-Series Fixtures*.			
Without Globe and Guard			
175	120	VMCK175	\$35.00
With Globe†			
175	120	VMCK175GHR	39.70
With Globe and Guard†			
175	120	VMCK175-GPHR	44.20

VMV SERIES FOR NEW INSTALLATIONS

Normal Power Factor (50%). Also available for 208, 240 and 277 volt.

Lamp Watts	Volts	Cat. No.	List Each
Without Globe and Guard			
75	120	VMV275	32.00
100	120	VMV2100	32.00
175	120	VMV2175	36.00
With Globe†			
75	120	VMV275G	34.50
100	120	VMV2100G	34.50
175	120	VMV2175GHR	40.70
With Globe and Guard†			
75	120	VMV275GP	39.00
100	120	VMV2100GP	39.00
175	120	VMV2175-GPHR	45.20

VMVH SERIES FOR NEW INSTALLATIONS††

High Power Factor (90% plus). Also available for 208, 240 and 277 volt; and for constant wattage, price on request.

Lamp Watts	Volts	Cat. No.	List Each
Without Globe and Guard			
100	120	VMVH2100	50.40
175	120	VMVH2175	53.40
With Globe†			
100	120	VMVH2100G	52.90
175	120	VMVH2175-GHR	58.10
With Globe and Guard†			
100	120	VMVH2100GP	57.40
175	120	VMVH2175-GPHR	62.60

*FM-2 Adapter Ring—adapts VMCK Series fixtures to Form 200 V-Series fixtures and certain competitive fixtures, \$1.00 list each.

†FA-2 Adapter Ring—adapts VMCK Series fixtures to certain other competitive fixtures, \$1.00 list each.

†G24 Heat-Resisting Globe must be used with 175-watt fixtures. G23 is used with 75 and 100-watt fixtures.

†P20 Guard supplied with all fixtures ordered with guard.

*Trade mark. ††Available fused, add \$3.50 list.

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

CROUSE-HINDS FIXTURE HANGERS

FHM AND FHF QUICK DISCONNECT HANGERS

Cushion Type

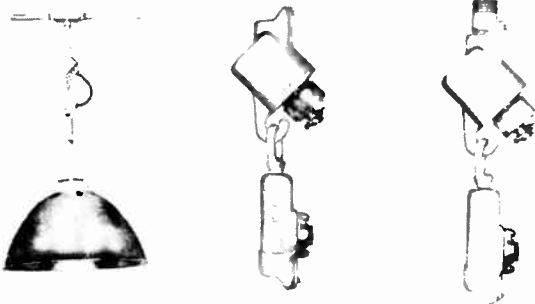
FHM-FHF hangers insure that fixture will be disconnected from power supply before it is lifted from hook. Hanger consists of hook and loop to support fixture.

Type FHM Hangers For Mercury Vapor Fixtures

600 Volt — 10 Ampere, 2-Wire, 3-Pole

Type FHF Hangers For Incandescent Fluorescent Fixtures

277 Volt — 15 Ampere, 2-Wire, 3-Pole



Fixture Wt., Lbs.	Cat. No.	List Each	Cat. No.	List Each
6 to 12	FHM28	25.00	FHF28	18.00
12 to 24	FHM218	25.00	FHF218	18.00
24 to 48	FHM236	25.00	FHF236	18.00

Fixture Stem, Hub and Male Nipple size: 1/2" & 3/4".
Two 3/4"-1/2" reduces and one each 1/2" and 3/4" short nipple included.

With Fixture Loop

Fixture Type	Cat. No.	List Each
Mercury Vapor	FHM20	\$14.00
Incandescent & Fluorescent	FHF 20	14.00

Fixture Stem, Hub and Male Nipple size: 1/2" & 3/4".

TYPES UNJ AND UNJC

They will allow the fixture to swing through an angle of 20° in any direction from the perpendicular.

Type UNJ Ball Hangers

Fixture Stem	Size, In.		Cat. No.	List Each
	Male Nipple	Female Nipple		
1/2	1/2	3/4	UNJ1	\$2.60
1/2	3/4	1	UNJ21	2.60
3/4	3/4	1	UNJ2	2.60

Type UNJC Cushion Hangers

Provided with spring which carries the weight of the fixture and absorbs shocks due to vibration or other causes.

Fixture Pounds	Wt.	Size, In.		Cat. No.	List Each
		Fixture Stem	Male Nipple		
6-12	6-12	1/2	1/2	UNJC18	4.60
6-12	6-12	3/4	3/4	UNJC28	4.80
12-24	12-24	1/2	1/2	UNJC116	4.60
12-24	12-24	3/4	3/4	UNJC216	4.80
24-48	24-48	1/2	1/2	UNJC132	4.60
24-48	24-48	3/4	3/4	UNJC232	4.80

Type UNJ Ball Hanger

When attached directly to a fluorescent fixture, and used with one of the above hangers at the suspension points, it allows "free-swinging" in all directions.

Fixture Stem	Size	Hub	Cat. No.	List Each
1/2	1/2	1/2	UNJ115	\$2.40

CONNECTION BLOCK

For AL Series Fixture Hangers
20 Amperes, 125 Volts

Description	Material	Cat. No.	List Each
2-Wire	Porcelain	CB308	\$.70

CROUSE-HINDS FIXTURE HANGERS

TYPE EFHC

For EVA, EVF, and DLA Pendant Fixtures

Explosion-Proof, Dust-Tight, and Weather Resistant—Raintight

Class I, Groups C and D; Class II, Groups E, F, and G; and Class III

Size Hub	Size Fixture Stem	Cat. No.	List Each
3/4	1/2	EFHC2701	\$4.90
	3/4	EFHC2702	4.90
	1	EFHC3701	5.00
	1 1/2	EFHC3702	5.00
1	1/2	EFHC2601	\$7.50
	3/4	EFHC2602	7.50
	1	EFHC3601	7.80
	1 1/2	EFHC3602	7.80



Type EFHC with Threaded Hub

TYPE AHG VAPORTIGHT FLEXIBLE CUSHION HANGERS

Wt. Fixture Lbs.	Size, In. Fixture Stem	Male Nipple	Cat. No.	List Each	
					Size, In. Conduit
4 to 8	1/2	1/2	AHG11103	\$4.40	
			3/4	AHG21103	4.50
			3/4	AHG22103	5.20
8 to 16	1/2	1/2	AHG11104	4.40	
			3/4	AHG21104	4.50
			3/4	AHG22104	5.20
16 to 30	1/2	1/2	AHG11111	4.40	
			3/4	AHG21111	4.50
			3/4	AHG22111	5.20



AL SERIES FLEXIBLE FIXTURE HANGERS

This universal joint permits the fixture to swing through an angle of about 20 degrees in any direction from the perpendicular.

Wt. Fix. Lbs.	Size, In. Fixture Stem	Conduit	Cat. No.	List Each	
					For Rigid Conduit (Thick Wall)
Type ALA Ball	1/2	1/2	ALA1	\$2.80	
			3/4	ALA21	2.80
			3/4	ALA22	2.80
Type ALA Cushion	1/2	1/2	ALA14	5.50	
			3/4	ALA214	5.50
			3/4	ALA224	5.50
Type ALC Ball	1/2	1/2	ALC1	3.00	
			3/4	ALC21	3.00
			1	ALC31	3.30
Type ALC Cushion	1/2	1/2	ALC18	5.50	
			3/4	ALC218	5.50
			3/4	ALC228	5.50
Type ALC Ball	1/2	1/2	ALC116	5.50	
			3/4	ALC2116	5.50
			3/4	ALC2216	5.50
Type ALC Cushion	1/2	1/2	ALC14	5.50	
			3/4	ALC214	5.50
			1	ALC314	5.80
Type ALC Ball	1/2	1/2	ALC18	5.50	
			3/4	ALC218	5.50
			3/4	ALC318	5.80
Type ALC Cushion	1/2	1/2	ALC116	5.50	
			3/4	ALC2116	5.50
			3/4	ALC3116	5.80



Type ALA Ball



Type ALA Cushion



Type ALC Ball



Type ALC Cushion

DISCOUNTS: UNDER \$100, 0—\$100-299.99, 10%—\$300 and OVER, 26%

APPLETON UNILETS

FORM 35 THREADED MALLEABLE IRON UNILETS

For Use with Threaded Rigid Conduit
Cadmium Plated



Type A

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Round Back				
A50-M	1/2	100	52	\$.70
A75-M	3/4	50	85	.80
A100-M	1	20	136	1.10
A125-M	1 1/4	20	255	1.80
A150-M	1 1/2	10	283	2.50
A200-M	2	5	540	4.50
A250-M	2 1/2	1	545	9.00
A300-M	3	1	1050	11.00
A350-M	3 1/2	1	1650	16.00
A400-M	4	1	1575	20.00



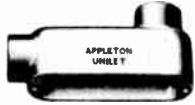
Type C

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Flat Back				
C50-M	1/2	100	68	\$.80
C75-M	3/4	50	104	.95
C100-M	1	20	161	1.45
Round Back				
C125-M	1 1/4	20	310	2.30
C150-M	1 1/2	10	385	3.00
C200-M	2	5	685	5.00
C250-M	2 1/2	1	1000	10.50
C300-M	3	1	1275	14.00
C350-M	3 1/2	1	2100	23.00
C400-M	4	1	2125	26.00



Type E

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
E50-M	1/2	50	62	\$.70
E75-M	3/4	50	93	.80
E100-M	1	20	144	1.10
E125-M	1 1/4	20	287	1.70
E150-M	1 1/2	10	315	2.40
E200-M	2	5	595	4.40
E250-M	2 1/2	1	850	9.00
E300-M	3	1	1025	11.00
E350-M	3 1/2	1	1850	19.00
E400-M	4	1	1925	23.00



Type LB

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
LB50-M	1/2	50	72	\$.80
LB75-M	3/4	50	104	.95
LB100-M	1	20	180	1.45
LB125-M	1 1/4	20	284	2.30
LB150-M	1 1/2	10	407	3.00
LB200-M	2	5	730	5.00
LB250-M	2 1/2	1	1025	10.50
LB300-M	3	1	1200	14.00
LB350-M	3 1/2	1	2100	23.00
LB400-M	4	1	2100	26.00
LB500-M	5	1	4250	38.35
LB600-M	6	1	6050	60.00



Type LF

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Round Back				
LF50-M	1/2	50	72	\$.90
LF75-M	3/4	50	104	1.10
LF100-M	1	20	180	1.50
LF125-M	1 1/4	20	284	3.20
LF150-M	1 1/2	10	407	4.40
LF200-M	2	5	730	6.30



Type LL

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
LL50-M	1/2	50	73	\$.80
LL75-M	3/4	50	102	.95
LL100-M	1	20	170	1.45
LL125-M	1 1/4	20	306	2.30
LL150-M	1 1/2	10	365	3.00
LL200-M	2	5	690	5.00
LL250-M	2 1/2	1	925	10.50
LL300-M	3	1	1175	14.00
LL350-M	3 1/2	1	2150	23.00
LL400-M	4	1	2225	26.00



Type LR

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
LR50-M	1/2	50	73	\$.80
LR75-M	3/4	50	99	.95
LR100-M	1	20	167	1.45
LR125-M	1 1/4	20	306	2.30
LR150-M	1 1/2	10	360	3.00
LR200-M	2	5	685	5.00
LR250-M	2 1/2	1	1000	10.50
LR300-M	3	1	1225	14.00
LR350-M	3 1/2	1	1500	23.00
LR400-M	4	1	2075	26.00



Type LRL

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
LRL50-M	1/2	100	82	\$.90
LRL75-M	3/4	50	110	1.10
LRL100-M	1	20	171	1.50
LRL125-M	1 1/4	20	310	3.20
LRL150-M	1 1/2	10	365	4.40
LRL200-M	2	5	675	6.30
LRL250-M	2 1/2	5	1100	12.00
LRL300-M	3	5	1300	15.00
LRL350-M	3 1/2	5	2150	25.00
LRL400-M	4	5	2175	28.00

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON UNILETS

FORM 35 THREADED MALLEABLE IRON UNILETS

For Use with Threaded Rigid Conduit
Cadmium Plated



Type T

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Flat Back				
T50-M	1/2	50	84	\$1.00
T75-M	3/4	50	117	1.20
T100-M	1	20	198	1.80
Round Back				
T125-M	1 1/4	10	343	2.70
T150-M	1 1/2	10	405	3.60
T200-M	2	5	780	5.60
T250-M	2 1/2	1	1100	11.00
T300-M	3	1	1425	16.00
T350-M	3 1/2	1	2400	25.00
T400-M	4	1	2375	28.00



Type TA

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Round Back				
TA50-M	1/2	50	96	\$1.40
TA75-M	3/4	50	132	1.80
TA100-M	1	20	240	2.40



Type TB

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Round Back				
TB50-M	1/2	50	35	\$1.10
TB75-M	3/4	50	116	1.30
TB100-M	1	20	195	1.90
TB125-M	1 1/4	10	350	2.90
TB150-M	1 1/2	10	360	3.80
TB200-M	2	5	760	6.00



Type X

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Flat Back				
X50-M	1/2	50	90	\$1.30
X75-M	3/4	50	130	1.60
X100-M	1	20	215	2.20
Round Back				
X125-M	1 1/4	5	380	3.10
X150-M	1 1/2	5	460	4.00
X200-M	2	5	830	7.00
X250-M	2 1/2	1	1200	13.00
X300-M	3	1	1550	20.00
X350-M	3 1/2	1	2600	29.00
X400-M	4	1	2500	35.00

FORM 35 NO-THREAD MALLEABLE IRON UNILETS

"N-M" for Use
with Threadless
Rigid Conduit



Type C

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit				
Flat Back				
C50N-M	1/2	50	76	\$2.00
C75N-M	3/4	50	112	2.50
C100N-M	1	20	180	3.30
Round Back				
C125N-M	1 1/4	20	355	6.00
C150N-M	1 1/2	10	437	8.00
C200N-M	2	5	760	12.00

"T-M" for Use
with Electrical
Metallic Tubing

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For EMT				
Flat Back				
C50T-M	1/2	50	79	\$1.50
C75T-M	3/4	50	118	2.20
C100T-M	1	20	178	2.60
Round Back				
C125T-M	1 1/4	20	350	4.20
C150T-M	1 1/2	10	425	6.00
C200T-M	2	5	755	8.00



Type E

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit				
Flat Back				
E50N-M	1/2	50	66	\$1.50
E75N-M	3/4	50	96	1.80
E100N-M	1	20	155	2.50
Round Back				
E125N-M	1 1/4	20	325	4.15
E150N-M	1 1/2	10	350	5.90
E200N-M	2	5	630	8.90

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For EMT				
Flat Back				
E50T-M	1/2	50	69	\$1.00
E75T-M	3/4	50	97	1.50
E100T-M	1	20	155	2.10
Round Back				
E125T-M	1 1/4	20	325	2.90
E150T-M	1 1/2	10	350	4.40
E200T-M	2	5	600	5.90

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON FORM 35 NO-THREAD UNILETS

MALLEABLE IRON

"N-M" for Use with Threadless Rigid Conduit



"T-M" for Use with Electrical Metallic Tubing

Type "LB"

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit Flat Back					For EMT Flat Back				
LB50N-M	1/2	50	78	\$2.00	LB50T-M	1/2	50	81	\$1.50
LB75N-M	3/4	50	114	2.50	LB75T-M	3/4	50	124	2.20
LB100N-M	1	20	188	3.30	LB100T-M	1	20	195	2.60
Round Back					Round Back				
LB125N-M	1 1/4	20	330	6.00	LB125T-M	1 1/4	20	338	4.20
LB150N-M	1 1/2	10	430	8.00	LB150T-M	1 1/2	10	452	6.00
LB200N-M	2	5	810	12.00	LB200T-M	2	5	795	8.00

Type "LRL"



Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit Flat Back					For EMT Flat Back				
LRL50N-M	1/2	50	88	\$2.10	LRL50T-M	1/2	50	90	\$1.60
LRL75N-M	3/4	50	122	2.70	LRL75T-M	3/4	50	126	2.40
LRL100N-M	1	20	176	3.40	LRL100T-M	1	20	183	2.70
LRL125N-M	1 1/4	20	350	6.50	LRL125T-M	1 1/4	20	355	4.70
LRL150N-M	1 1/2	10	405	8.50	LRL150T-M	1 1/2	10	420	6.50
LRL200N-M	2	5	800	12.85	LRL200T-M	2	5	800	8.85



Type "T"

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit Flat Back					For EMT Flat Back				
T50N-M	1/2	50	92	\$2.50	T50T-M	1/2	50	98	\$2.00
T75N-M	3/4	50	131	3.20	T75T-M	3/4	50	138	2.60
T100N-M	1	20	215	4.10	T100T-M	1	20	233	3.70
Round Back					Round Back				
T125N-M	1 1/4	10	400	7.85	T125T-M	1 1/4	20	403	6.10
T150N-M	1 1/2	10	473	10.10	T150T-M	1 1/2	10	520	7.20
T200N-M	2	5	890	15.10	T200T-M	2	5	930	12.20



Type "X" (Flat Back)

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit Flat Back					For EMT Flat Back				
X50N-M	1/2	50	100	\$3.00	X50T-M	1/2	50	103	\$2.50
X75N-M	3/4	50	140	3.90	X75T-M	3/4	50	150	3.00
X100N-M	1	20	225	4.90	X100T-M	1	20	225	4.40

NO-THREAD REDUCERS



Type "RBN"



Type "RBT"

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Rigid Conduit					For EMT				
RBN75-50	3/4-1/2	50	17	\$.58	RBT75-50	3/4-1/2	50	12	\$.58
RBN100-75	1-3/4	50	25	.86	RBT100-75	1-3/4	50	22	.86

EXTENSIONS



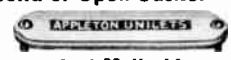
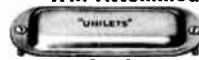
1 Inch Deep

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
EXT50	1/2	100	40	\$1.00
EXT75	3/4	50	55	1.20
EXT100	1	20	75	1.40

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON FORM 35 UNILET COVERS

Furnished with Stainless Steel Fastening Screws Will Accommodate Solid or Open Gasket



Steel					Cast Malleable				
Cat. No. STEEL	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No. MALLEABLE	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
K50	1/2	200	10	\$.20	K50-CM	1/2	200	19	\$.35
K75	3/4	200	14	.25	K75-CM	3/4	200	27	.45
K100	1	100	18	.40	K100-CM	1	100	33	.70
K125	1 1/4	100	34	.50	K125-CM	1 1/4	20	90	1.00
K150	1 1/2	100	34	.50	K150-CM	1 1/2	20	90	1.00
K200	2	50	58	.85	K200-CM	2	5	164	1.40
K250	2 1/2	5	135	1.30	K250-CM	2 1/2	5	310	1.70
K300	3	5	135	1.30	K300-CM	3	5	310	1.70
K350	3 1/2	5	195	1.60	K350-CM	3 1/2	5	500	2.50
K400	4	5	195	1.60	K400-CM	4	5	500	2.50
K500	5	1	660	3.00					
K600	6	1	1000	5.00					

COMPOSITION BLANK COVERS



Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KB50	1/2	200	13	\$.30	KB200	2	5	170	1.20
KB75	3/4	100	28	.40	KB250	2 1/2	5	350	3.20
KB100	1	50	38	.60	KB300	3	5	350	3.20
KB125	1 1/4	20	82	1.00	KB350	3 1/2	5	600	5.00
KB150	1 1/2	20	82	1.00	KB400	4	5	600	5.00

COMPOSITION WIRE COVERS



1-WIRE		2-WIRE		3-WIRE	
Cat. No.	Wt. Lbs. Per 100	Cat. No.	Wt. Lbs. Per 100	Cat. No.	Wt. Lbs. Per 100
K1W50	13 1/16	K2W50	3 5/8	K3W50	5 1/16
K1W75	1 1/16	K2W75	3 5/8	K3W75	5 1/16
K1W100	1 1/2	K2W100	1 3/8	K3W100	1 3/8
K1W125	1 1/2	K2W125	1 3/8	K3W125	1 3/8
K1W150	1 1/2	K2W150	1 3/8	K3W150	1 3/8
K1W200	1 3/8	K2W200	1 1/2	K3W200	1 1/2
K1W250	2 1/16	K2W250	1 7/16	K3W250	1 7/16
K1W300	2 1/16	K2W300	1 7/16	K3W300	1 7/16
K1W350	3 1/4	K2W350	1 15/16	K3W350	1 15/16
K1W400	3 1/4	K2W400	1 15/16	K3W400	1 15/16



4-WIRE		5-WIRE	
Cat. No.	Wt. Lbs. Per 100	Cat. No.	Wt. Lbs. Per 100
K4W50	5 1/16	K5W75	3 1/8
K4W75	5 1/16	K5W100	3 1/8
K4W100	1 3/8	K5W125	1 3/8
K4W125	1 3/8	K5W150	1 3/8
K4W150	1 3/8	K5W200	1 3/8
K4W200	1 3/8	K5W250	1 3/8
K4W250	1 7/16	K5W300	1 7/16
K4W300	1 7/16	K5W350	1 7/16
K4W350	1 15/16	K5W400	1 7/16
K4W400	1 15/16		



6-WIRE		6-WIRE	
Cat. No.	Wt. Lbs. Per 100	Cat. No.	Wt. Lbs. Per 100
K6W75	5 1/8	K6W250	7 1/8
K6W100	5 1/8	K6W300	7 1/8
K6W125	1 1/2	K6W350	7 1/8
K6W150	1 1/2	K6W400	7 1/8
K6W200	5 1/8		

Wiring Device Cover With Mounting Strap Switch Cover With Steel Mounting Bracket



Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Wiring Device Cover*					Vaportight Switch Cover*				
KWD50-A	1/2	50	8	\$.80	KVS75-A	3/4	50	35	3.00
					KVS100-A	1	25	45	3.20

*Both types take P&S-Despard, Bryant "IL", Hubbell, Arrow "T" and General Electric interchangeable wiring devices.

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

**APPLETON FORM 35
WIRING DEVICES & GASKETS**

PORCELAIN LAMP RECEPTACLE — 1½" Diam. Shade Holder Groove

Cat. No.	Rating	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KLR50	660W	½	10	38	\$1.00
KLR75	600V	¾	10	45	1.10
KLR100		1	10	45	1.60

COMPOSITION DUPLEX "U" GROUND RECEPTACLE COVERS
Extra Pole Grounded

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
15A-250V				
KDRG50-T23	½	100	35	\$2.65
KDRG75-T23	¾	100	32	2.85
15A-277V				
KDRG50-C23	½	100	35	3.30
KDRG75-C23	¾	100	32	3.50

15A-125V or 10A-250V COMPOSITION PLUG RECEPTACLES
Single, With Double T Slots Duplex, With Double T Slots

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KRDG50-23	½	100	20	\$2.65
KRDG75-23	¾	100	30	2.85

With Stainless Screws 2-Pole Attachment

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KR50-22	½	100	20	\$1.20
KR75-22	¾	100	28	1.40
KR100-22	1	50	35	1.80

Crow Foot Take Hubbell #7055, 9750 Plug.

3-Pole Grounded

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KRG75-23	¾	100	35	\$1.85
KRG100-23	1	50	47	2.00

3-WIRE TWIST-LOCK RECEPTACLES—POLARIZED

Take Hubbell #7567, 7568, 7554, 7558, 7572 plug.
Bakelite top, composition base.

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KRT50-23	½	100	35	\$3.30
KRT50-33	½	100	38	\$3.50

COMPOSITION PLUG RECEPTACLES WITH CORD ROSETTES
660-Watt, 250-Volt

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
KCR50	½	100	30	\$1.90
KCR75	¾	100	35	2.10
KCR100	1	50	40	2.50

NOTE: Attachment plug and Stainless Steel screws furnished.

FORM 35 UNILET GASKETS

For Use with Blank Malleable & Steel Covers					For Use with Composition & Receptacle Covers				
Cat. No.	Wt. 100	Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	Size In.	Std. Pkg.	List Price
GK50-SV	1	GK50-SN	1	\$.20	GK50-OV	1	½	200	\$.20
GK75-SV	1	GK75-SN	2	.20	GK75-OV	1	¾	100	.20
GK100-SV	2	GK100-SN	2	.30	GK100-OV	1	1	50	.30
GK125-SV	3	GK125-SN	6	.40	GK125-OV	2	1¼	25	.40
GK150-SV	3	GK150-SN	6	.40	GK150-OV	2	1½	25	.40
GK200-SV	4	GK200-SN	10	.50	GK200-OV	2	2	25	.50
GK250-SV	9	GK250-SN	16	.80	GK250-OV	3	2½	25	.80
GK300-SV	9	GK300-SN	16	.80	GK300-OV	3	3	25	.80
GK350-SV	13	GK350-SN	20	1.00	GK350-OV	4	3½	25	1.00
GK400-SV	13	GK400-SN	20	1.00	GK400-OV	4	4	25	1.00
GK500-SV	22	GK500-SN	27	2.02			5	1	2.02
GK600-SV	25	GK600-SN	30	2.02			6	1	2.02

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON RECTANGULAR THREADED UNILETS

For Use with TI-read Rigid Conduit

Type C				Type LB				Type E				Type LL			
Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.
9001	55	\$.70	10	9005-L	57	\$.80	10	9008	60	\$.80	10	9022	90	.95	10
9021	67	.80	10	9025-L	84	.95	10	9028	94	.95	10	9042	126	1.45	10
9041	115	1.10	10	9045-L	125	1.45	10	9048	130	1.45	10				

Type LR				Type T				Type X							
Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.
9005-R	54	\$.80	10	9003	62	\$1.00	10	9004	66	\$1.30	10	9025-R	84	.95	10
9025-R	84	.95	10	9023	80	1.20	10	9024	96	1.60	10	9045-R	125	1.45	10
9045-R	125	1.45	10	9043	140	1.80	10	9044	155	2.20	10				

Blank Covers for Rectangular Unilets



Steel					Composition				
Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
6000	½	200	10	\$.20	600	½	200	20	\$.45
6020	¾	100	13	.25	620	¾	100	25	.55
6100	1	50	19	.40	640	1	50	40	.75

3-WIRE COMPOSITION COVERS FOR RECTANGULAR UNILETS

Cat. No.	Dia. Holes	Unilet Size, In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
603	5/16	½	200	18	\$.45
623	3/8	¾	100	25	.55
643	1 1/8	1	50	35	.75

LAMP RECEPTACLES With 1½" Diam. Shade Holder Groove

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
7660	½	100	30	\$1.00
7661	¾	100	38	1.10

660-watt, 600-volt. Two-piece: porcelain top, composition base.

15A-125V or 10A-250V COMPOSITION DUPLEX RECEPTACLES

Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
7685	½	100	18	\$1.80
7686	¾	50	18	2.00

SOLID GASKETS FOR RECTANGULAR UNILETS

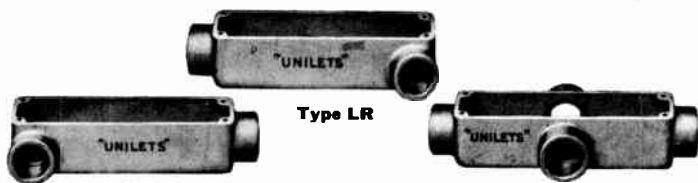
Cat. No.	Wt. 100	Cat. No.	Wt. 100	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
2560-N	1	2561-N	1	½	200	1	\$.20
2561-N	1	2562-N	1	¾	100	1	.20
2562-N	1			1	50	2	.30

THREADED MOGUL UNILETS

Type C				Type E				Type LB							
Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.	Cat. No.	Wt. 100	List Price	Std. Pkg.
MC100-M	25	\$3.80	10	ME100-M	307	\$3.40	10	MLB100-M	307	\$3.80	10	MC125-M	10	4.30	10
MC125-M	10	4.30	10	ME125-M	365	3.80	10	MLB125-M	345	4.30	10	MC150-M	10	8.30	10
MC150-M	10	8.30	10	ME150-M	710	7.40	10	MLB150-M	745	8.30	10	MC200-M	5	10.00	5
MC200-M	5	10.00	5	ME200-M	780	9.00	5	MLB200-M	800	10.00	5	MC250-M	5	15.20	5
MC250-M	5	15.20	5	ME250-M	910	13.60	5	MLB250-M	1000	15.20	5	MC300-M	5	20.40	5
MC300-M	5	20.40	5	ME300-M	1250	17.40	5	MLB300-M	1300	20.40	5	MC350-M	5	32.70	5
MC350-M	5	32.70	5	ME350-M	1200	28.00	5	MLB350-M	2575	32.70	5	MC400-M	5	40.00	5
MC400-M	5	40.00	5	ME400-M	2800	34.00	5	MLB400-M	2800	40.00	5				

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON MOGUL THREADED UNILETS



Type LL		Type LR		Type T		Size	Std. Pkg.
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	In.	
MLL100-M	\$3.80	MLR100-M	\$3.80	MT100-M	\$4.50	1	25
MLL125-M	4.30	MLR125-M	4.30	MT125-M	5.00	1 1/4	10
MLL150-M	8.30	MLR150-M	8.30	MT150-M	9.30	1 1/2	10
MLL200-M	10.00	MLR200-M	10.00	MT200-M	11.20	2	5
MLL250-M	15.20	MLR250-M	15.20	MT250-M	15.60	2 1/2	5
MLL300-M	20.40	MLR300-M	20.40	MT300-M	22.40	3	5
MLL350-M	32.70	MLR350-M	32.70	MT350-M	33.70	3 1/2	5
MLL400-M	40.00	MLR400-M	40.00	MT400-M	42.00	4	5



Cat. No.	Size In.	Std. Pkg.	List Price	Cat. No.	Size In.	Std. Pkg.	List Price
MX100-M	1	25	5.00	MX250-M	2 1/2	5	19.00
MX125-M	1 1/4	10	5.50	MX300-M	3	5	25.00
MX150-M	1 1/2	10	10.30	MX350-M	3 1/2	5	42.00
MX200-M	2	5	12.50	MX400-M	4	5	52.00

CAST MALLEABLE COVERS AND VELLUTEX GASKETS



Cat. No.	Size In.	Std. Pkg.	List Price	Cat. No.	Size In.	Std. Pkg.	List Price
MK180-CM	1	10	2.20	MGK100-V	1	25	.50
MK125-CM	1 1/4	10	2.20	MGK125-V	1 1/4	25	.50
MK150-CM	1 1/2	5	3.50	MGK150-V	1 1/2	25	.70
MK200-CM	2	5	3.50	MGK200-V	2	25	.70
MK250-CM	2 1/2	5	7.50	MGK250-V	2 1/2	25	1.50
MK300-CM	3	5	7.50	MGK300-V	3	25	1.50
MK350-CM	3 1/2	5	13.50	MGK350-V	3 1/2	10	2.00
MK400-CM	4	5	13.50	MGK400-V	4	10	2.00

LBD THREADED UNILETS AND REPLACEMENT VELLUTEX GASKETS



Cat. No.	Size In.	Std. Pkg.	List Price	Cat. No.	Size In.	Std. Pkg.	List Price
LBD50-M	1/2	50	1.80	LBD-GK50-V	1/2	100	.20
LBD75-M	3/4	25	2.40	LBD-GK75-V	3/4	100	.20
LBD100-M	1	25	2.70	LBD-GK100-V	1	50	.20
LBD125-M	1 1/4	10	5.50	LBD-GK125-V	1 1/4	50	.40
LBD150-M	1 1/2	5	10.50	LBD-GK150-V	1 1/2	25	1.00
LBD200-M	2	1	11.00	LBD-GK200-V	2	25	1.00
LBD250-M	2 1/2	1	32.50	LBD-GK250-V	2 1/2	25	1.20
LBD300-M	3	1	32.50	LBD-GK300-V	3	25	1.20
LBD350-M	3 1/2	1	60.00	LBD-GK350-V	3 1/2	10	1.80
LBD400-M	4	1	60.00	LBD-GK400-V	4	10	1.80

FS UNILETS WITH MOUNTING LUGS AND DOUBLE OPENING TYPE

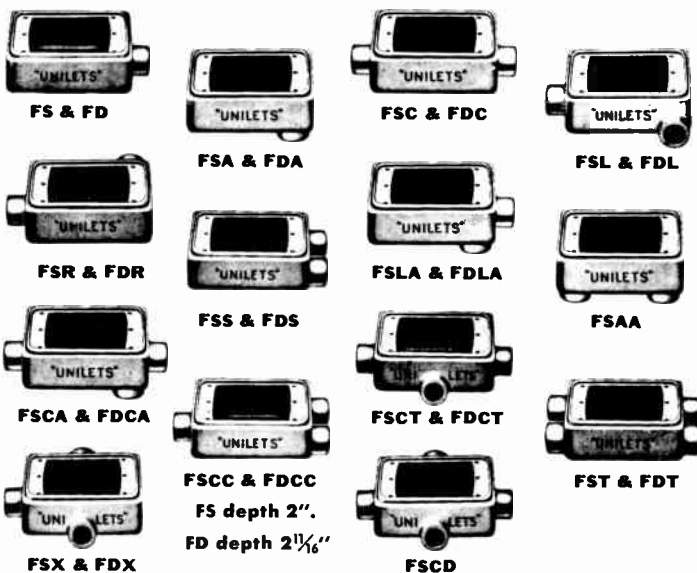


Cat. No.	Size In.	Depth In.	Description	Std. Pkg.	Wt.-Lbs. Per 100	Price
FS-1-50L	1/2	2	W/mounting lugs	25	238	\$1.60
FS-1-75L	3/4	2	W/mounting lugs	25	208	1.80
FSC-1D-50	1/2	3 3/8	W/double opening	25	234	2.50
FSC-1D-75	3/4	3 3/8	W/double opening	25	243	2.90

5% discount for \$100.00 to \$299.99 list.
21% discount for \$300.00 list or over.

APPLETON FS AND FD SINGLE-GANG THREADED UNILETS

Malleable FS (2" deep) and FD (2 1/16" deep) Unilets have ridge top. Use FD Unilets for wiring devices exceeding 1 5/8" in depth under the fastening ears.



Cat. No.	Wt. 100 Lbs.	List Price	Cat. No.	Wt. 100 Lbs.	List Price	Cat. No.	Wt. 100 Lbs.	List Price	Size In.	Std. Pkg.
FS-1-50	212	1.45	FD-1-50	217	1.75	FSA-1-50	161	1.45	1/2	25
FS-1-75	196	1.55	FD-1-75	244	1.85	FSA-1-75	166	1.55	3/4	25
FS-1-100	206	1.70	FD-1-100	281	2.00	FSA-1-100	179	1.70	1	15
FDA-1-50	236	1.75	FSC-1-50	182	1.55	FDC-1-50	228	1.95	1/2	25
FDA-1-75	240	1.85	FSC-1-75	210	1.80	FDC-1-75	240	2.10	3/4	25
FDA-1-100	250	2.00	FSC-1-100	229	2.20	FDC-1-100	303	2.50	1	15
FSL-1-50	186	1.65	FDL-1-50	225	1.95	FSR-1-50	195	1.65	1/2	25
FSL-1-75	184	1.80	FDL-1-75	260	2.10	FSR-1-75	184	1.80	3/4	25
FSL-1-100	210	2.20	FDL-1-100	260	2.50	FSR-1-100	210	2.20	1	15
FDR-1-50	225	1.95	FSS-1-50	198	1.65	FDS-1-50	250	1.95	1/2	25
FDR-1-75	250	2.10	FSS-1-75	201	1.80	FDS-1-75	310	2.10	3/4	25
FDR-1-100	294	2.50	.....	.....	.....	FDS-1-100	297	2.50	1	15
FSLA-1-50	168	1.70	FDLA-1-50	230	2.00	FSA-1-50	200	1.70	1/2	25
FSLA-1-75	177	1.90	FDLA-1-75	250	2.20	FSA-1-75	204	1.90	3/4	25
FSLA-1-100	175	2.30	FDLA-1-100	260	2.60	FSA-1-100	203	2.30	1	15
FSCA-1-50	175	2.00	FDCA-1-50	225	2.30	FSCC-1-50	206	2.00	1/2	25
FSCA-1-75	200	2.50	FDCA-1-75	250	2.80	FSCC-1-75	210	2.65	3/4	25
FSCA-1-100	210	2.90	FDCA-1-100	318	3.20	FSCC-1-100	200	2.90	1	15
FSCC-1-50-75*	211	2.50	.....	.....	.....	.....	.....	.....	1/2-3/4*	25
FDCC-1-50	230	2.30	FSCT-1-50	175	2.00	FDCT-1-50	236	2.30	1/2	25
FDCC-1-75	275	2.95	FSCT-1-75	175	2.50	FDCT-1-75	260	2.80	3/4	25
FDCC-1-100	315	3.20	FSCT-1-100	214	2.90	FDCT-1-100	310	3.20	1	15
FDCC-1-50-75*	260	2.80	.....	.....	.....	.....	.....	.....	1/2-3/4	25
FST-1-50	176	2.00	FDT-1-50	235	2.30	FSX-1-50	187	2.40	1/2	25
FST-1-75	191	2.50	FDT-1-75	273	2.80	FSX-1-75	225	3.00	3/4	25
FST-1-100	198	2.90	FDT-1-100	314	3.20	FSX-1-100	233	3.40	1	15
FDX-1-50	250	2.70	FSCD-1-50	190	2.40	.....	.....	.....	1/2	25
FDX-1-75	275	3.30	FSCD-1-75	190	3.00	.....	.....	.....	3/4	25
FDX-1-100	335	3.70	.....	.....	.....	.....	.....	.....	1	15

*Largest hub at left in illustration.

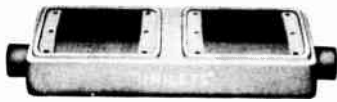
FS SINGLE GANG NO-THREAD UNILETS



Cat. No.	Size In.	Depth In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSS-1-50N	1/2	2	25	200	\$2.05
FSS-1-75N	3/4	2	25	200	2.50

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FS TWO-GANG TANDEM UNILETS



FSC-2T-50

Cat. No.	Size In.	Depth In.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Tandem Unilets						
FSC-2T-50	1/2	2	2-gang	25	375	\$3.50
FSC-2T-75	3/4	2	2-gang	25	350	3.70
FSC-2T-100	1	2	2-gang	10	368	3.90

FS AND FD SINGLE GANG UNILET STEEL COVERS

FSK covers for use with single gang, threaded and no-thread FS and FD Unilets, 2-gang tandem, and multiple-gang Unilets with individual cover openings. Special covers listed for use with two, three and four-gang malleable Unilets. Furnished with screws.

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-1PB	For double push button switches, momentary contact & maintain switches.	50	21	.49
FSK-1TS	For square handle tumbler or toggle switches.	50	22	.32
FSK-1TSG	For square handle tumbler or toggle switches (with protecting guard).	50	22	.43
FSK-1WD-1	For 1 despard type interchangeable devico (with single-opening strap).	50	28	.55
FSK-1WD-3	For 2 or 3 despard type interchangeable devicos (with 3-opening strap).	50	26	.55
FSK-1R-Q	For round flush plug receptacle (without lift cover). Hole diam. 1 1/32"	50	18	.32
FSK-1R-Y	For round receptacles, hole diam. 1 3/8"-2 3/8" C to C screw holes.	50	20	.32



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-1R-T	For round flush plug receptacles (with lift cover). Hole diam. 1 1/32"	50	22	1.29
FSK-1R-W	For round receptacles, hole diam. 1 1/32"	50	20	.32
FSK-1R-X	For round receptacles, hole diam. 1 5/8"-1 9/32" C to C screw holes.	50	20	.32
FSK-1DR	Single gang. For standard 2 or 3 wire duplex receptacles.	50	18	.32
FSK-1J	For pilot lamp (with ruby jewel).	50	25	2.10
FSK-1B	Blank.	50	22	.21

*Other color jewels can be furnished if specified on orders: amber, green and opal.

"U-LOK" DUPLEX LOCKING COVER AND PLUG FOR U-GROUND RECEPTACLES



Stops plug fall-out. Fits standard duplex receptacles. Silver satin finish.

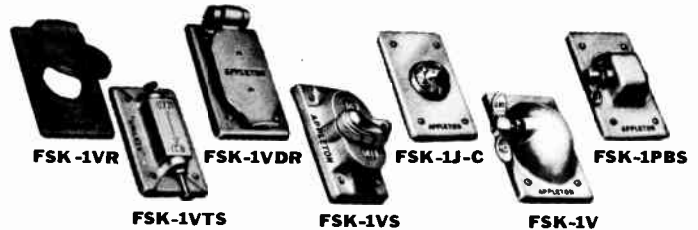
Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
DLK-1	2 3/4" wide x 4 1/2" long x 5/8" deep.	5	13	\$2.95
"U-Lok" Attachment Plug				
DLP-1523	15A-125V, AC or DC.	10	6	.95
DLP-2023	20A-125V, AC or DC.	10	6	.95
DLP-1523T	15A-250V, AC or DC.	10	6	1.05
DLP-1523C	15A-277V, AC.	10	6	1.25

*T.M. Patent applied for.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON SINGLE-GANG UNILET COVERS VAPORTIGHT--CAST MALLEABLE

For use with threaded and no-thread FS and FD Unilets, 2-gang tandem and multiple-gang Unilets with individual cover openings. Cadmium finish. Furnished with gasket and stainless steel screws.



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-1VR	Receptacle cover with spring cover, hole diam. 1 1/16"	50	72	\$2.54
FSK-1VDR	For duplex flush receptacle with spring cover	50	77	3.00
FSK-1J-C	For pilot lamp flush receptacles (with ruby jewel*)	50	55	2.60
FSK-1PBS	For double push button switches.	25	77	3.60
FSK-1VTS	For external operation of tumbler switches with square handle.	25	97	3.54
FSK-1VS	Operating type for square handle tumbler or toggle switches.	25	120	3.54
FSK-1V	Rocker type for square handle tumbler or toggle switches.	25	112	3.54
FSK-1B-C	Blank.	25	51	.53

*Other color jewels can be furnished if specified on orders: amber, green and opal.

Single-Gang Unilet Covers--Cast Malleable--Without Gasket



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-1R-Z	For round flush receptacles, hole diam. 1 1/16"	50	50	.70
FSK-1TSG-C	For square handle toggle switches (with protecting guard).	50	24	.74

Covers with Receptacle, Spring Cover, Gasket and Stainless Steel Screws--Hole Diameter--1 7/16"

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
15A-125V				
FSK-1VR-22	2W, 2P	25	90	\$5.20
15A-125V or 10A-250V				
FSK-1VRG-23	2W, 3P Third pole	25	100	7.19
FSK-1VR-23	2W, 3P pole	25	94	7.20
FSK-1VR-33	3W, 3P grounded	25	96	7.24

FS AND FD SINGLE-GANG UNILET RECEPTACLE COVERS WITH THREADED CAP--WEATHERPROOF--MALLEABLE

For use with threaded and no-thread FS and FD Unilets, 2-gang tandem and multiple-gang Unilets with individual cover openings. Cadmium finish. Furnished with receptacle, vellutex gasket and stainless steel screws. Grounding provisions meet with N.E.C. standards.

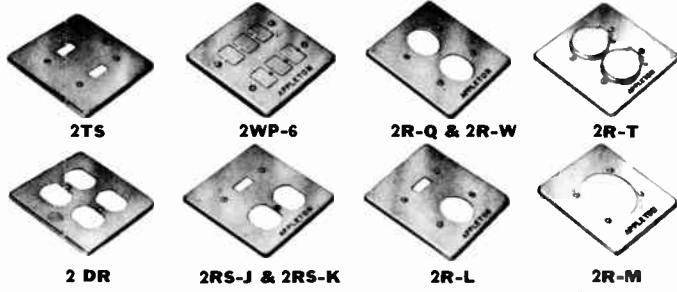


Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
15A-125V--Will Take 2-Pole Parallel or 2-Pole Tandem Blade Plugs				
FSK-WRC-22	2W, 2P Double T	10	95	\$4.39
15A-125V or 10A-250V				
FSK-WRC-23	2W, 3P Third pole grounded	10	95	6.39
FSK-WRC-33	3W, 3P Crow Foot	10	95	6.49
FSK-WRTC-22	2W, 2P Twist Lock	10	150	6.00
FSK-WRTC-23	2W, 3P Third pole grounded	10	98	6.75
FSK-WRTC-33	3W, 3P Twist Lock	10	98	7.50
Will Take Standard 2-Wire, 2-Pole Parallel Blade Plug				
FSK-WRCG-P23	2W, 3P Parallel blades	10	95	6.29
15A-250V				
FSK-WRCG-T23	2W, 3P Tandem blades	10	95	7.49

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON TWO-GANG UNILET COVERS

Steel Covers For FS, FD Unilets — Threaded, No-Thread



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-2TS	For square handle tumbler or toggle flush switches	25	36	\$.60
FSK-2WD-6	For up to 6 Despard type interchangeable devices (with two 3-opening Straps)	25	45	1.00
FSK-2R-Q	For round flush receptacles 1 ¹³ / ₃₂ " Dia.	25	32	.60
FSK-2R-W	For Hubbell 2-wire No. 7210 or 3-wire No. 7310 Twist-Lock flush receptacles 1 ¹³ / ₃₂ " Dia.	25	32	.60
FSK-2R-T	For round flush receptacles 1 ¹³ / ₃₂ " Dia.	25	48	2.50
FSK-2DR	For "Standard" duplex flush receptacles	25	32	.60
FSK-2RS-J	For toggle flush switches and round flush receptacles	25	35	1.00
FSK-2RS-K	For toggle flush switches and "Standard" duplex flush receptacles	25	33	1.00
FSK-2R-L	For round flush receptacles and "Standard" duplex flush receptacles	25	30	1.00
FSK-2R-M	For Hubbell 3-wire, 30-Amp. No. 7112 and 4-wire, 60-Amp. No. 7301 polarized flush receptacles 2 ¹⁵ / ₃₂ " Dia.	25	40	1.00
FSK-2B	Blank	25	40	.40

TWO-GANG VAPORTIGHT COVERS FOR FS & FD UNILETS

Furnished with Gaskets and Screws



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-2VTS	For external operation of tumbler switches with square handles	15	277	\$6.00
FSK-2VS	For square handle tumbler or toggle switches	15	250	6.00
FSK-2B-CM	Blank cast	15	78	1.00

EXTENSIONS AND GASKETS



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-2EXT	Extension, 1" deep	25	70	\$2.10
FS-GKR-2N	Neoprene gasket	50	2	.50
FS-GKR-2V	Vellutex gasket	50	1	.50

THREE-GANG NO-THREAD UNILETS



Cat. No.	Wt.-Lbs. Per 100	Price	Cat. No.	Wt.-Lbs. Per 100	Price	Size In.	Std. Pkg.
FS-3-50N	355	\$4.10	FSC-3-50N	350	\$4.45	1/2	10
FS-3-75N	350	4.35	FSC-3-75N	395	4.95	3/4	10

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FS AND FD THREE GANG UNILETS

For Use with Threaded Rigid Conduit

Malleable FS and FD Unilets have ridge top. Use FD Unilets for wiring devices exceeding 1³/₈" in depth under the fastening ears. FS depth 2". FD depth 2¹¹/₁₆".

Three-Gang Threaded Unilets



Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.
FS-3-50 OR FSC-3-50	325	\$3.90	FS and FD				
	357	4.00	FD-3-50	375	\$4.50	1/2	10
	365	4.15	FD-3-75	400	4.60	3/4	10
			FD-3-100	415	4.75	1	5
FSS-3-50	325	4.05	FSC and FDC				
	355	4.25	FDC-3-50	407	4.70	1/2	10
	400	4.40	FDC-3-75	420	4.85	3/4	10
			FDC-3-100	435	5.00	1	5
FSS-3-50	345	4.20	FSS and FDS				
	362	4.50	FDS-3-50	425	4.90	1/2	10
	460	4.95	FDS-3-75	400	5.10	3/4	10
			FDS-3-100	450	5.30	1	5
FSD-3-50	350	4.50	FSD and FDD				
	360	4.60	FDD-3-50	425	5.10	1/2	10
	400	4.75	FDD-3-75*	400	5.20	1/2-3/4	10
			FDD-3-100*	420	5.20	3/4-1	5

THREE-GANG VAPORTIGHT CAST COVERS
Furnished with Gasket and Stainless Steel Screws



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-3VTS	For external operation of tumbler or toggle switches with square handles	10	250	\$8.50
FSK-3B-CM	Blank cast	10	115	1.50

THREE-GANG STEEL COVERS



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-3TS	For Square Handle Tumbler or Toggle Flush Switches	10	50	\$.90
FSK-3R-Q	For flush plug receptacles without lift cover	10	45	\$.92
FSK-3B	Blank	10	53	.80

FS THREE-GANG GASKETS



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-GKR-3N	Neoprene	25	2	\$.60
FS-GKR-3V	Vellutex	25	2	.60

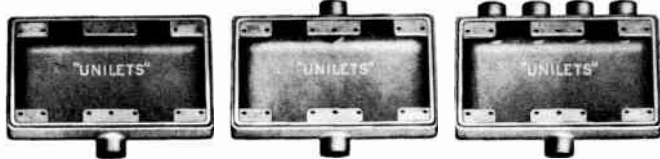
FS AND FD RIDGE TOP UNILETS WITHOUT HUBS



Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Descrip.
1-Gang SHALLOW			2-Gang			
FS-2G	1	255	FD-2G	1	400	2-gang
FS-3G	1	565	FD-3G	1	615	3-gang
FS-4G	1	1005	FD-4G	1	1125	4-gang

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FS AND FD FOUR GANG THREADED UNILETS



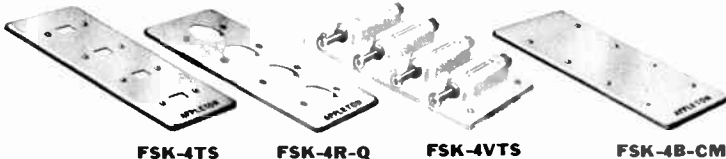
FS-4-50 FSC-4-50 FSD-4-50

Malleable FS and FD Unilets have ridge top. Use FD Unilets for wiring devices exceeding 1 5/8" deep under the fastening ears. FS depth 2". FD depth 2 1/16".

Cat. No. Shallow	Wt.-Lbs. Per 100	List Price	Cat. No. Deep	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg
FS and FD							
FS-4-50	548	\$4.70	FD-4-50	475	\$5.50	1/2	10
FS-4-75	540	4.80	FD-4-75	500	5.60	3/4	10
FS-4-100	600	4.95	FD-4-100	535	5.75	1	5
FSC and FDC							
FSC-4-50	510	4.85	FDC-4-50	510	5.65	1/2	10
FSC-4-75	600	5.00	FDC-4-75	525	5.80	3/4	10
FSC-4-100	575	5.20	FDC-4-100	575	6.00	1	5
FSD and FDD							
FSD-4-50	550	6.00	FDD-4-50	525	6.80	1/2	10
FSD-4-75*	550	6.10	FDD-4-75*	530	6.90	1/2-3/4	10
FSD-4-100*	590	6.25	FDD-4-100*	575	7.05	3/4-1	5

*Largest hub at bottom of illustration.

FS AND FD FOUR-GANG UNILET COVERS



FSK-4TS FSK-4R-Q FSK-4VTS FSK-4B-CM

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Steel Covers				
FSK-4TS	For square handle tumbler or toggle flush switches.	10	65	\$1.20
FSK-4R-Q	For round flush plug receptacles, hole diam. 1 13/32"	10	50	1.25
Vaportight Cast Covers*				
FSK-4VTS	For external operation of tumbler switches with square handles.	10	325	\$10.00
FSK-4B-CM	Blank cast.	10	150	2.00

*Furnished with gasket and screws.

FS FOUR-GANG GASKETS



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-GKR-4N	Neoprene	25	2	\$.80
FS-GKR-4V	Vellutex	25	2	.80

FS-GKR-4N

FD RIDGE TOP UNILETS WITHOUT HUBS



FD-1L FD-2L FD-3L

Cadmium finish. Depth 2 1/32". Maximum hub size threaded 1 1/2"; 1 1/4" no-thread or union.

Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FD-1L	Single-gang	1	215	\$1.70	FD-3L	3-gang	1	640	\$6.60
FD-2L	2-gang	1	425	4.15	FD-4L	4-gang	1	1150	9.00

GS VAPORTIGHT LAMP RECEPTACLE COVERS

Furnished with Screw Shell, Gasket and Screws



GSK-LR5 GSK-LR20

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GSK-LR5	Form 5-10	25	83	\$3.60
GSK-LR20	Form 20	25	140	3.65

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON JBX AND JBDX UNIVERSAL THREADED ROUND BASE UNILETS



JBX-50 JBDX-50 JBX-50L JBDX-50L

Cadmium finish. With or without mounting lugs.—Furnished with 4 tapped holes and 2 close-up plugs.

Cat. No. SHALLOW	Wt.-Lbs. Per 100	List Price	Cat. No. DEEP	Wt.-Lbs. Per 100	List Price	Size	Std. Pkg.
Less Mounting Lugs							
JBX-50	220	\$2.15	JBDX-50	285	\$2.70	1/2	10
JBX-75	220	2.15	JBDX-75	278	2.70	3/4	10
JBX-100	210	2.20	JBDX-100	283	2.90	1	10
With Mounting Lugs							
JBX-50L	245	2.40	JBDX-50L	313	2.95	1/2	10
JBX-75L	237	2.40	JBDX-75L	310	2.95	3/4	10
JBX-100L	232	2.45	JBDX-100L	310	3.15	1	10

JB MALLEABLE COVERS, GASKET AND ADAPTER

Furnished with Screws



Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
JBK-50	1/2" Hub	25	....	\$1.30	JBK-B	Blank	50	82	\$.65
JBK-75	3/4" Hub	25	....	1.55	....	....	....	....	....

JB GASKET

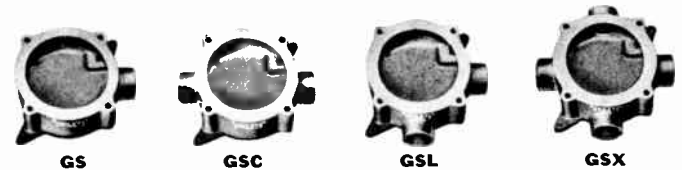
Cat. No.	Description	Std. Pkg.	List Price
JB-GK-V	Vellutex	50	\$.20

JB VAPORTIGHT ADAPTER

To adapt Form 5-10 covers, receptacle—covers and lighting fixtures for GS-Unilets to JBX and JBDX-Unilets.

JBK-AD	10	130	\$1.50
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GS MALLEABLE ROUND BASE THREADED JUNCTION UNILETS



With mounting lugs. Cadmium finish. Forms 5-10 and 20 indicate sizes of unilets which take covers correspondingly classified.

Type	Wt.-Lbs. Per 100	List Price	Type	Wt.-Lbs. Per 100	List Price	Description	Std. Pkg.	Description and Std. Pkg. also applies to GSL, GST & GSX listings below.
GS-50-5	275	\$2.20	GSC-50-5	172	\$2.40	1/2 Form 5-10	25	
GS-75-5	183	2.50	GSC-75-5	177	2.70		25	
GS-50-20	262	3.60	GSC-50-20	269	3.80	1/2 Form 20	25	
GS-75-20	253	3.90	GSC-75-20	262	4.10		25	
GS-100-20	273	4.30	GSC-100-20	276	4.60		10	
Type	Wt.-Lbs. Per 100	List Price	Type	Wt.-Lbs. Per 100	List Price	Type	Wt.-Lbs. Per 100	List Price
GSL-50-5	160	\$2.40	GST-50-5	185	\$2.80	GSX-50-5	188	\$3.20
GSL-75-5	160	2.70	GST-75-5	188	3.20	GSX-75-5	197	3.60
GSL-50-20	300	3.80	GST-50-20	288	4.30	GSX-50-20	290	4.70
GSL-75-20	275	4.10	GST-75-20	280	4.40	GSX-75-20	295	5.20
GSL-100-20	300	4.50	GST-100-20	300	5.00	GSX-100-20	315	6.20

GS VAPORTIGHT COVERS


Furnished with Gasket and Screws

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GSK-50-5	Form 5-10	25	59	\$1.45
GSK-50-20	Form 20	25	132	2.40
GSK-BC-5	Form 5-10	25	48	\$1.20
GSK-BC-20	Form 20	25	140	2.20

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON GS GASKETS AND VAPORTIGHT ADAPTERS

Furnished with Gasket and Screws

Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
 GSK-AD-5 Form 5-10. Permits use of Form 20 Accessories on Form 5-10 GS Unilets.	25	92	\$1.50
GSK-AD-20 Form 20. Permits use of Form 5-10 Covers and Accessories.	25	92	1.50

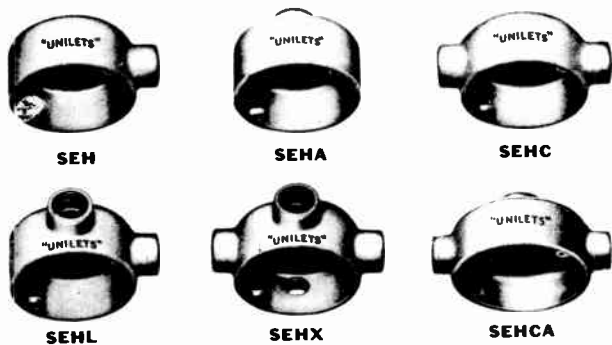
GS GASKETS

Rubber gaskets for use between cover and unilet. Vellutex gaskets for use between Unilet and Form 5-10 and Form 20 Adapter.

Cat. No.	Description	Std. Pkg.	List Price
GS-GK5-R	VELLUTEX Form 5-10	25	\$.20
GS-GK20-R	VELLUTEX Form 20	25	.30




SEH MALLEABLE ROUND BASE JUNCTION UNILETS
For Use with Rigid Conduit

Cadmium finish. Take wiring devices designed for 4" octagonal outlet boxes.



Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.
SEH-50	135	\$1.60	SEHA-50	125	\$1.60	SEHC-50	146	\$1.90	1/2	25
SEH-75	136	1.80	SEHA-75	135	1.80	SEHC-75	145	2.10	3/4	25
SEH-100	172	2.20	SEHA-100	170	2.20	SEHC-100	183	2.50	1	10
SEHL-50	152	1.90	SEHT-50	159	2.10	SEHX-50	169	2.30	1/2	25
SEHL-75	148	2.10	SEHT-75	161	2.30	SEHX-75	170	2.50	3/4	25
SEHL-100	192	2.50	SEHT-100	208	2.70	SEHX-100	225	2.90	1	10
SEHCA-50	200	2.10						1/2	25	
SEHCA-75	163	2.30						3/4	25	
SEHCA-200	208	2.70						1	10	

SEH COVERS—Furnished with Screws

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
 SEHK-38	Hub Covers—Malleable 3/8"	25	70	\$1.30
SEHK-50	1/2"	25	76	1.30
 SEHK-B	Blank Covers Steel	25	25	.30
SEHK-BC	Malleable	25	66	.60
 SEH-GK	SEH GASKETS Vellutex	10	1	.40

RS MALLEABLE JUNCTION UNILETS
For Use with Rigid Conduit



Furnished with top covers, gaskets and cap screws.

Cat. No.	Inside Dimensions	Std. Pkg.	Wt.-Lbs. Per 100	List Price
RS-1	8 1/2" x 8 1/2" x 4"	10	1825	\$20.00
RSM-1	8 1/2" x 4 1/2" x 4"	10	1300	18.00
RSS-1	4 1/2" x 4 1/2" x 4"	10	850	15.00



10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON CONDUIT HUB PLATES
FOR 8 1/2" x 4" SIDES
OF RS AND RSM UNILETS



One Hub					Two Hubs				
Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	Price	Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
RSK1-50	1/2	40	170	\$2.00	RSK2-50	1 1/2-1 1/2	40	170	\$2.60
RSK1-75	3/4	40	165	2.10	RSK2-75	3/4-3/4	40	180	2.90
RSK1-100	1	40	175	2.20	RSK2-100	1-1	40	190	3.10
RSK1-125	1 1/4	40	180	2.30	RSK2-125	1 1/4-1 1/4	40	200	3.40
RSK1-150	1 1/2	40	195	2.40	RSK2-150	1 1/2-1 1/2	40	220	3.70
RSK1-200	2	40	205	2.50	RSK2-200	2-2	40	250	4.20
RSK1-250	2 1/2	40	320	3.40					
Three Hubs									
RSK3-50	1/2-1/2-1/2	40	170	2.90	RSK3-100	1-1-1	40	195	3.60
RSK3-75	3/4-3/4-3/4	40	185	3.20	RSK3-125	1 1/4-1 1/4-1 1/4	40	210	4.00
RSK-B	Blank	40	205	1.90					

CONDUIT HUB PLATES FOR 4 1/2" x 2" ENDS OF RSM AND RSS UNILETS

 RSSK-125	1/2	40	80	\$1.00	RSSK-50	1 1/4	40	90	\$1.30
RSSK-150	3/4	40	80	1.10	RSSK-75	1 1/2	40	95	1.40
RSSK-50	1	40	83	1.20	RSSK-100	2	40	115	1.50
 RSSK-B	Blank						40	88	.90

RSSK-B Note: Approximate outside dimensions 3 1/2" x 3 1/2".

RS VELLUTEX GASKETS

For use between Unilets and conduit hub plates.

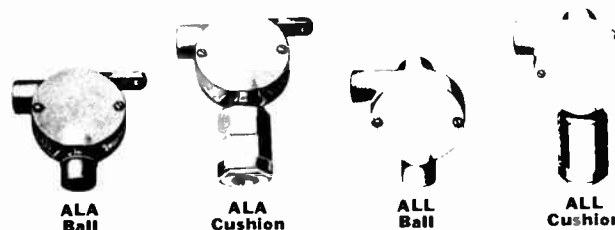


Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
RS-GK	For hub plates of 8 1/2" x 4" RS or RSM Unilets.	25	5	\$.70
RSS-GK	For hub plates of 4 1/2" x 4" RSM or RSS Unilets.	25	3	.40

AL FLEXIBLE FIXTURE HANGER UNILETS

For Use with Threaded Rigid Conduit

Cadmium finish. Furnished complete with cover and ball or cushion hanger. Universal joint provides 20° swivel at any angle.



Cat. No.	Wt.-Lbs. Per 100	Cat. No.	Wt.-Lbs. Per 100	Conduit Size-In.	Fixture Stem-In.	Std. Pkg.	List Price
ALA50-B	142	ALL50-B	147	1/2	1/2	25	\$2.80
ALA7550-B	153	ALL7550-B	146	3/4	1/2	25	3.00
ALA75-B	149	ALL75-5	143	3/4	3/4	25	3.00
Cushion Hangers							
ALA50-6	203	ALL50-6	208	1/2	1/2	25	5.50
ALA7550-6	214	ALL7550-6	207	3/4	1/2	25	5.50
ALA75-6	296	ALL75-6	289	3/4	3/4	25	5.50
ALA50-12	203	ALL50-12	208	1/2	1/2	25	5.50
ALA7550-12	214	ALL7550-12	207	3/4	1/2	25	5.50
ALA75-12	301	ALL75-12	294	3/4	3/4	25	5.50
ALA50-24	200	ALL50-24	205	1/2	1/2	25	5.50
ALA7550-24	211	ALL7550-24	204	3/4	1/2	25	5.50
ALA75-24	296	ALL75-24	289	3/4	3/4	25	5.50
ALA50-48	300	ALL50-48	305	1/2	1/2	25	5.50
ALA7550-48	311	ALL7550-48	304	3/4	1/2	25	5.50
ALA75-48	301	ALL75-48	294	3/4	3/4	25	5.50

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON WEATHERPROOF UNILET PLUGS



For Use with FS and FD
Single-Gang Receptacle Covers
FSWP-GP23

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
With Fastening Ring—15A-125V				
FSWP-SP22	2W, 2P Parallel blades	10	50	\$3.00
FSWP-ST22	2W, 2P Tandem blades	10	50	3.00
With Fastening Ring—15A-125V or 10A-125V				
FSWP-SC33	2W, 3P Third pole grounded or 3W, 3P or Crow Foot	10	33	3.50
FSWP-TL22	2W, 2P Twist Lock	10	33	3.30
FSWP-TL33	2W, 3P Third pole grounded or 3W, 3P or Twist Lock	10	35	4.00
With New "U" Shaped Grounding Parallel Blade—15A-125V				
FSWP-GP23	2W, 3P Parallel blades	10	33	3.50
FSWP-GT23	2W, 3P Tandem blades	10	33	3.80

SINGLE-GANG UNILET EXTENSIONS
For Use with FS and FD Single-Gang Unilets



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-1EXT	1" deep	50	68	\$1.00

SINGLE-GANG UNILET GASKETS
For Use with FS and FD Single-Gang Unilets



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-GKR-1N	Neoprene	50	2	\$.40
FS-GKR-1V	Vellutex	50	1	.40

BRD RECEPTACLE COVERS AND BP PLUGS

For use with FS and FD single-gang and tandem Unilets and multiple gang Unilets with individual cover openings. Type BRD plug receptacle covers, 20A-125V DC, or 30A-250V, AC, can be used on 25A-125V, DC, or on 30A-250V, DC, if circuit is broken before plug is withdrawn. Receptacles are provided with a separate ground terminal thoroughly grounded to receptacle cover. Plugs and receptacles are polarized and the contacts are self-aligning. Branch wires are soldered directly to pole terminals in both plug and receptacle. Grounding method complies with N.E.C. standards. Cadmium finish.

Vaportight BRD Receptacle Covers with Spring Cover



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-BVR-22	2-pole	10	125	\$10.50
FSK-BVR-33	3-pole	10	125	12.50
FSK-BVR-44	4-pole	10	125	13.90

BP Plugs for Use with Vaportight Covers Less Clamping Nut



Furnished with gland nut, rubber bushing and cable grip.
BPV-22

Cat. No.	Description	For Cable Diameter	Std. Pkg.	Wt.-Lbs. Per 100	List Price
BPV-22	2-pole	.500 to .750	25	125	\$ 6.60
BPV-33	3-pole	.500 to .750	25	125	8.60
BPV-44	4-pole	.500 to .750	25	125	10.00

BRD Receptacle Covers With Threaded Cap and Gaskets



Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSK-BWR-22	2-pole	10	120	\$ 9.50
FSK-BWR-33	3-pole	10	120	12.00
FSK-BWR-44	4-pole	10	120	13.40

BP Plugs for Use with Weatherproof Covers with Clamping Nut



Furnished with gland nut rubber bushing and cable grip. Clamping nut makes assembly weatherproof.
DPW-22

Cat. No.	Description	For Cable Diameter	Std. Pkg.	Wt.-Lbs. Per 100	List Price
BPW-22	2-pole	.500 to .750	25	150	\$ 7.70
BPW-33	3-pole	.500 to .750	25	150	10.40
BPW-44	4-pole	.500 to .750	25	160	11.50

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON REA OUTDOOR RECEPTACLE FITTINGS



REA-WRC-22



REAC-VR-22



REA-1PS

Receptacle fittings take "standard" attachment plug caps. Switch fittings furnished complete with "T" rated switches. All with 1/2" hub.

WITH 1/2" HUB

Receptacle Fittings 15A-125V — 10A-250V				Switch Fittings 10A-125V — 5A-250V					
Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Descrip.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
REA-WRC-22	2W, 2P	10	280	\$5.00	REA-1PS	1-pole	25	114	\$5.05
REA-VR-22	2W, 2P	10	270	5.35	REA-3PS	3-way	25	118	5.80
REAC-VR-22	2W, 2P	10	270	5.50	REAC-1PS	1-pole	25	124	5.20

APPLETON FS AND FD TWO-GANG UNILETS

Threaded type for use with rigid conduit and No-Thread type for use with rigid conduit or electrical metallic tubing. Cadmium finish. Malleable FS and FD Unilets have ridge top. Use FD Unilets for wiring devices exceeding 1 3/8" in depth under the fastening ears. FS depth 2". FD depth 2 1/16".



THREADED FS & FD NO-THREAD N-SUFFIX E.M.T. T-SUFFIX



THREADED FS & FD NO-THREAD N-SUFFIX E.M.T. T-SUFFIX



FS & FDD

FSA & FDA			E.M.T.			FSS & FDS		
Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.	
FS-2-50	242	\$2.65	FD-2-50	310	\$3.05	1/2	25	
FS-2-75	223	2.75	FD-2-75	300	3.15	3/4	15	
FS-2-100	260	2.90	FD-2-100	325	3.30	1	5	
FSA-2-50	262	2.65	FSA and FDA FDA-2-50	320	3.05	1/2	25	
FSC-2-50	255	2.85	FSC and FDC FDC-2-50	325	3.25	1/2	25	
FSC-2-75	238	3.00	FDC-2-75	315	3.40	3/4	15	
FSC-2-100	275	3.40	FDC-2-100	330	3.80	1	5	
FSS-2-50	250	2.85	FSS and FDS FDS-2-50	325	3.25	1/2	25	
FSS-2-75	230	3.00	FDS-2-75	318	3.40	3/4	15	
FSS-2-100	275	3.40	FDS-2-100	330	3.80	1	5	
FSD-2-50	243	3.10	FSD and FDD FDD-2-50	328	3.50	1/2	25	
FSD-2-75*	241	3.30	FDD-2-75*	340	3.70	1/2-3/4	5	
FSD-2-100*	240	3.50	FDD-2-100*	350	3.90	3/4-1	5	

*Largest hub at bottom in illustration.

FOR USE WITH NO-THREAD RIGID CONDUIT

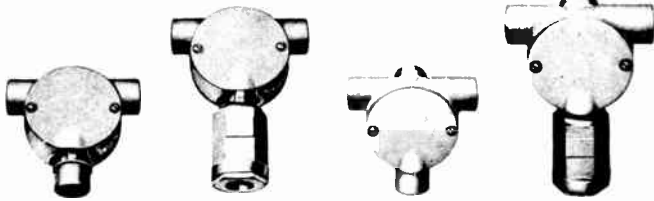
FS and FD		FSC and FDC	
Cat. No.	List Price	Cat. No.	List Price
FS-2-50N	\$2.85	FD-2-50N	\$3.25
FS-2-75N	3.10	FD-2-75N	3.50
FSC-2-50N	3.25	FDC-2-50N	3.65
FSC-2-75N	3.70	FDC-2-75N	4.10
FSC-2-100N	4.30	FDC-2-100N	4.70

FOR USE WITH E.M.T.

FS and FD		FSC and FDC	
Cat. No.	List Price	Cat. No.	List Price
FS-2-50T	\$2.85	FD-2-50T	\$3.25
FS-2-75T	3.05	FD-2-75T	3.50
FSC-2-50T	3.25	FDC-2-50T	3.65
FSC-2-75T	3.60	FDC-2-75T	4.10
FSC-2-100T	4.20	FDC-2-100T	4.60

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FIXTURE HANGERS
AL FLEXIBLE FIXTURE HANGER UNILETS



ALC Ball		ALC Cushion		ALT Ball		ALT Cushion		
Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Conduit Size-In.	Fixture Stem-In.	Std. Pkg.
Ball Hangers								
ALC50-B	148	\$3.00	ALT50-B	158*	\$3.10	1/2	1/2	25
ALC7550-B	152	3.00	ALT7550-B	162	3.10	3/4	1/2	25
ALC1050-B	181	3.30	ALT1050-B	213	3.40	1	1/2	10
ALC75-B	147	3.00	ALT75-B	158	3.10	3/4	3/4	25
ALC175-B	177	3.30	ALT1075-B	208	3.40	1	3/4	10
Cushion Hangers								
ALC50-C	219	5.50	ALT50-C	219	5.60	1/2	1/2	25
ALC7550-C	212	5.50	ALT7550-C	223	5.60	3/4	1/2	25
ALC1050-C	242	5.80	ALT1050-C	274	5.90	1	1/2	10
ALC75-C	294	5.50	ALT75-C	305	5.60	3/4	3/4	25
ALC1075-C	325	5.80	ALT1075-C	355	5.90	1	3/4	10
ALC50-12	219	5.50	ALT50-12	219	5.60	1/2	1/2	25
ALC7550-12	212	5.50	ALT7550-12	223	5.60	3/4	1/2	25
ALC1050-12	242	5.80	ALT1050-12	274	5.90	1	1/2	10
ALC75-12	309	5.50	ALT75-12	310	5.60	3/4	3/4	25
ALC1075-12	330	5.80	ALT1075-12	360	5.90	1	3/4	10
ALC50-24	206	5.50	ALT50-24	215	5.60	1/2	1/2	25
ALC7550-24	219	5.50	ALT7550-24	220	5.60	3/4	1/2	25
ALC1050-24	240	5.80	ALT1050-24	270	5.90	1	1/2	10
ALC75-24	294	5.50	ALT75-24	305	5.60	3/4	3/4	25
ALC1075-24	325	5.80	ALT1075-24	355	5.90	1	3/4	10
ALC50-48	306	5.50	ALT50-48	315	5.60	1/2	1/2	25
ALC7550-48	309	5.50	ALT7550-48	320	5.60	3/4	1/2	25
ALC1050-48	340	5.80	ALT1050-48	370	5.90	1	1/2	10
ALC75-48	299	5.50	ALT75-48	310	5.60	3/4	3/4	25
ALC1075-48	330	5.80	ALT1075-48	360	5.90	1	3/4	10

VAPORTIGHT CUSHION FIXTURE HANGERS FOR 1/2" STEM
Enclosed and Gasketed

Cat. No.	Description	Fixture Wt.-Lbs.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
AHG-5050	1/2" male nipple	2-30	25	170	\$5.00
AHG-5050 AHG-7550	3/4" male nipple	2-30	25	170	5.20

FLEXIBLE FIXTURE HANGERS FOR 1/2" STEM
For Form 5-10 GS Unilets
Furnished with Gasket and Screws

Ball	Cat. No.	Description	Fixture Wt.-Lbs.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
	GSK-50-5B	Ball type	...	25	113	\$2.20
	GSK-50-5C*	Cushion type	2-30	25	152	4.20

*Vaporproof.

ECONOMY SWIVEL FIXTURE HANGERS

Cat. No.	Size In.	Fixture Wt.-Lbs.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Ball Hanger					
UNJ-50	1/2	...	50	80	\$2.00
UNJ-75	3/4	...	50	88	2.00
Cushion Hanger					
UNJ-50C	1/2	6-24	50	85	4.00
UNJ-75C	3/4	6-24	50	90	4.20

COMBINATION HICKEY AND SWIVEL FIXTURE JOINT

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
UNJ-3850	3/8" hub for conduit; 1/2" joint for fixture stem.	50	24	\$1.80

MALLEABLE IRON FIXTURE HOOKS AND LOOPS

Cat. No.	Wt. Hooks	List Price	Cat. No.	Wt. Loops	List Price	Size In.	Std. Pkg.
Male Hub							
FHHM-50	55	\$.80	FHLM-50	60	\$1.00	1/2	50
FHHM-75	56	1.00	FHLM-75	60	1.00	3/4	25
Female Hub							
FHHF-50	50	1.00	FHLF-50	54	1.00	1/2	50
FHHF-75	46	1.00	FHLF-75	50	1.00	3/4	25

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FIXTURE HANGERS AND UNILETS
MALLEABLE IRON FIXTURE HANGERS WITH SAFETY STRAP



For Rigid Conduit

For E.M.T.

Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.
FHSN-50	20	\$1.10	FHST-50	27	\$.70	1/2	40
FHSN-75	25	1.10	FHST-75	28	.85	3/4	35
FHSN-100	28	1.10	FHST-100	28	1.00	1	30

RIGID SUPPORT FOR DUMMY SIDE OF FLUORESCENT LIGHTING FIXTURES
Malleable Iron



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FHS-5075	1/2" and 3/4" conduit hub. Will pass over max. 1 1/4" conduit.	50	98	\$1.10

SUPPORT HOOKS FOR DUMMY SIDE OF LIGHTING FIXTURES
Malleable Iron



Female Cat. No.	Wt.-Lbs. Per 100	List Price	Male Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.
EFHF-50	15	\$.70	EFHM-50	21	\$.70	1/2	100
EFHF-75	18	.80	EFHM-75	28	.80	3/4	50

BRG 20 AMPERE RECEPTACLE COVERS
For Use with FS, FD and GS Unilets 20A-125V, DC-30A-250V, AC
Malleable iron. Cadmium finish. With gaskets. Grounded through shell.

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
With Spring Cover—Style I—Vaportight				
GSK-BVR22-5	Form 5-10 2-pole	25	125	\$10.50
GSK-BVR22-20	Form 20 2-pole	25	160	11.70
GSK-BVR33-5	Form 5-10 3-pole	25	125	12.50
GSK-BVR33-20	Form 20 3-pole	25	160	13.50
GSK-BVR44-5	Form 5-10 4-pole	25	135	13.90
GSK-BVR44-20	Form 20 4-pole	25	160	14.90

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
With Threaded Cap—Style I—Weatherproof				
GSK-BWR22-5	Form 5-10 2-pole	25	100	9.50
GSK-BWR22-20	Form 20 2-pole	25	140	10.70
GSK-BWR33-5	Form 5-10 3-pole	25	100	12.00
GSK-BWR33-20	Form 20 3-pole	25	150	13.00
GSK-BWR44-5	Form 5-10 4-pole	25	100	13.40
GSK-BWR44-20	Form 20 4-pole	25	155	14.40

BP PLUGS

For Use with BRD and BRG Receptacle Covers



Furnished with gland nut, rubber bushing, and cable grip. BPV plugs for use with spring cover receptacles. BPW plugs for use with threaded cap receptacles.

Cat. No.	List Price	Description	Cable Diameter	Std. Pkg.	Cat. No.	List Price
BPV-22	\$ 6.60	2-pole	.500 to .750	25	BPW-22	\$ 7.70
BPV-33	8.60	3-pole	.500 to .750	25	BPW-33	10.40
BPV-44	10.00	4-pole	.500 to .750	25	BPW-44	11.50

BRC 20 AMPERE EXTENSION CABLE CONNECTORS AND REPLACEMENT PARTS
20A-125V, DC-30A-250V, AC

For use where added extension cables are required. Steel body with aluminum cap.

Cat. No.	Description	Cable Diameter	Std. Pkg.	Wt.-Lbs. Per 100	List Price
BRC-2022A	2-pole	.500 to .750	10	330	\$17.60
BRC-2033A	3-pole	.500 to .750	10	350	20.90
BRC-2044A	4-pole	.500 to .750	10	370	23.30
BRC-2022B	2-pole	.750 to .875	10	330	19.50
BRC-2033B	3-pole	.750 to .875	10	350	21.90
BRC-2044B	4-pole	.750 to .875	10	370	23.60

BR SERIES RECEPTACLE REPLACEMENT PARTS

Cat. No.	Wt.-Lbs. Per 100	List Price	Description	Cat. No.	Wt.-Lbs. Per 100	List Price
(Female Contacts)						
BRI-2022	20	\$3.80	2-pole	BRPI-2022	28	\$4.85
BRI-2033	24	5.00	3-pole	BRPI-2033	32	6.10
BRI-2044	28	5.95	4-pole	BRPI-2044	36	7.15
(Male Contacts)						

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON PLUG AND RECEPTACLES

AE 30 AMPERE SPRING COVER RECEPTACLES 30A-250V, DC-600V, AC
Complete with Mounting AE Unilet

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1 Grounded Through Shell				
AE321	2-wire, 2-pole	1	160	\$13.00
AE331	3-wire, 3-pole	1	160	14.00
AE341	4-wire, 4-pole	1	160	16.00



Style 2 Grounded Through Extra Pole				
AE332	2-wire, 3-pole	1	160	16.00
AE342	3-wire, 4-pole	1	160	18.00



Cat. No.	Hub Size	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1 Grounded Through Shell					
AEE3211	1/2"	2W, 2P	1	410	\$15.00
AEE3212	3/4"	2W, 2P	1	410	15.20
AEE3312	3/4"	3W, 3P	1	410	16.20
AEE3313	1"	3W, 3P	1	410	16.40
AEE3412	3/4"	4W, 4P	1	410	18.20
AEE3413	1"	4W, 4P	1	410	18.40

Style 2 Grounded Through Extra Pole					
AEE3322	3/4"	2W, 3P	1	410	18.20
AEE3323	1"	2W, 3P	1	410	18.40
AEE3422	3/4"	3W, 4P	1	410	20.20
AEE3423	1"	3W, 4P	1	410	20.40

AEP PLUGS For use with AE Receptacles

Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt. Per 100	List Price
For Use with Style 1 Receptacles					
AEP3211	2-wire, 2-pole	.500 to .750	1	110	\$15.00
AEP3311	3-wire, 3-pole	.500 to .750	1	110	16.00
AEP3411	4-wire, 4-pole	.500 to .750	1	110	18.00
For Use with Style 2 Receptacles					
AEP3321	2-wire, 3-pole	.500 to .750	1	110	18.00
AEP3421	3-wire, 4-pole	.500 to .750	1	110	20.00



APC 30 AMPERE EXTENSION CABLE CONNECTORS 30A-250V, DC-600 V, AC-Raintight



For use where added extension cables are required.

Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell					
APC3251	2-wire, 2-pole	.500 to .750	1	300	\$32.00
APC3351	3-wire, 3-pole	.500 to .750	1	300	34.00
APC3451	4-wire, 4-pole	.500 to .750	1	300	38.00
Style 2—Grounded Through Extra Pole					
APC3361	2-wire, 3-pole	.500 to .750	1	300	38.00
APC3461	3-wire, 4-pole	.500 to .750	1	300	42.00

AE 30 AMPERE THREADED CAP RECEPTACLES With AE Mounting Unilets

Cat. No.	Hub Size	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell					
AEE3271	1/2"	2-wire, 2-pole	1	500	\$16.00
AEE3272	3/4"	2-wire, 2-pole	1	500	16.20
AEE3372	3/4"	3-wire, 3-pole	1	500	17.20
AEE3373	1"	3-wire, 3-pole	1	500	17.40
AEE3472	3/4"	4-wire, 4-pole	1	500	19.20
AEE3473	1"	4-wire, 4-pole	1	500	19.40
Style 2—Grounded Through Extra Pole					
AEE3382	3/4"	2-wire, 3-pole	1	500	19.20
AEE3383	1"	2-wire, 3-pole	1	500	19.40
AEE3482	3/4"	3-wire, 4-pole	1	500	21.20
AEE3483	1"	3-wire, 4-pole	1	500	21.40



AE MOUNTING UNILETS FOR 30 AMPERE RECEPTACLES

Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Description	Std. Pkg.
AEE13	250	\$2.00	AERA13	325	\$2.00	1/2" hub	1
AEE23	250	2.20	AERA23	325	2.20	3/4" hub	1
AEE33	240	2.40	AERA33	300	2.40	1" hub	1



10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON PLUG AND RECEPTACLES

MOUNTED UNILETS FOR 30 AMP. RECEPTACLES



Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Description	Std. Pkg.
AERC13	350	\$2.20	AERH13	325	\$2.00	1/2" hub	1
AERC23	345	2.40	AERH23	325	2.20	3/4" hub	1
AERC33	325	2.60	AERH33	300	2.40	1" hub	1

AE 30 AMPERE THREADED CAP RECEPTACLES 30A-250V, DC-600V, AC-Raintight



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1 Grounded Through Shell				
AE327	2-wire, 2-pole	1	250	\$14.00
AE337	3-wire, 3-pole	1	250	15.00
AE347	4-wire, 4-pole	1	250	17.00
Style 2 Grounded Through Extra Pole				
AE338	2-wire, 3-pole	1	250	17.00
AE348	3-wire, 4-pole	1	250	19.00

AEP PLUGS

For Use with Threaded Cap Receptacles



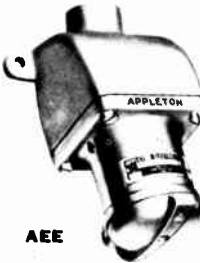
Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
For Style 1 Receptacles					
AEP3251	2W, 2P	.500-.750	1	150	\$16.00
AEP3351	3W, 3P	.500-.750	1	150	17.00
AEP3451	4W, 4P	.500-.750	1	150	19.00
For Style 2 Receptacles					
AEP3361	2W, 3P	.500-.750	1	150	19.00
AEP3461	3W, 4P	.500-.750	1	150	21.00

AE 60 AMPERE SPRING COVER RECEPTACLES 250V, DC, 600V, AC

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1 Grounded Through Shell				
AE621	2-wire, 2-pole	1	290	\$20.00
AE631	3-wire, 3-pole	1	290	23.00
AE641	4-wire, 4-pole	1	290	27.00
Style 2 Grounded Through Extra Pole				
AE632	2-wire, 3-pole	1	290	25.00
AE642	3-wire, 4-pole	1	290	29.00



Cat. No.	Hub Size	Ground	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1 Grounded Through Shell					
AEE6213	1"	2W, 2P	1	790	23.30
AEE6214	1 1/4"	2W, 2P	1	790	23.50
AEE6313	1"	3W, 3P	1	790	26.30
AEE6314	1 1/4"	3W, 3P	1	790	26.50
AEE6414	1 1/4"	4W, 4P	1	790	30.50
AEE6415	1 1/2"	4W, 4P	1	790	30.70
Style 2 Grounded Through Extra Pole					
AEE6323	1"	2W, 3P	1	790	28.30
AEE6324	1 1/4"	2W, 3P	1	790	28.50
AEE6424	1 1/4"	3W, 4P	1	790	33.50
AEE6425	1 1/2"	3W, 4P	1	790	33.70



AEP PLUGS FOR USE WITH AE 60 AMPERE RECEPTACLES



Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell					
AEP6212	2-wire, 2-pole	.750 to 1.375	1	240	\$20.00
AEP6312	3-wire, 3-pole	.750 to 1.375	1	240	22.00
AEP6412	4-wire, 4-pole	.750 to 1.375	1	240	24.00
Style 2—Grounded Through Extra Pole					
AEP6322	2-wire, 3-pole	.750 to 1.375	1	240	25.00
AEP6422	3-wire, 4-pole	.750 to 1.375	1	240	27.00

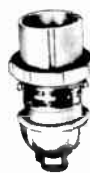
10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON PLUGS AND RECEPTACLES

AEP 60 AMPERE PLUGS

Style 1—Grounded Through Shell

Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
AEP6252	2-wire, 2-pole	.750 to 1.375	1	200	\$22.00
AEP6352	3-wire, 3-pole	.750 to 1.375	1	200	24.00
AEP6452	4-wire, 4-pole	.750 to 1.375	1	200	26.00

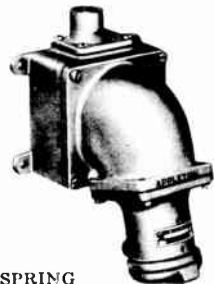


Style 2—Grounded Through Extra Shell

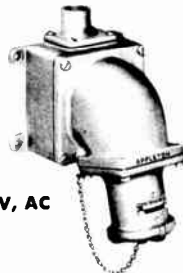
AEP6362	2-wire, 3-pole	.750 to 1.375	1	200	27.00
AEP6462	3-wire, 4-pole	.750 to 1.375	1	200	29.00

AE 60 AMPERE RECEPTACLES

Complete with AJ Mounting Unilets



60A-250V, DC—600V, AC



THREADED CAP

SPRING COVER

STD. PKGS. 1

Style 1—Grounded Through Shell

Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Hub Size In.	Description	Std. Pkg.
AEAA6213	1150	\$36.00	AEAA6273	1100	\$37.00	1	2W, 2P	1
AEAA6214	1150	36.20	AEAA6274	1100	37.20	1 1/4	2W, 2P	1
AEAA6313	1150	39.00	AEAA6373	1100	40.00	1	3W, 3P	1
AEAA6314	1150	39.20	AEAA6374	1100	40.20	1 1/4	3W, 3P	1
AEAA6414	1150	43.20	AEAA6474	1100	44.20	1 1/4	4W, 4P	1
AEAA6415	1150	43.40	AEAA6475	1100	44.40	1 1/2	4W, 4P	1

Style 2—Grounded Through Extra Pole

AEAA6323	1150	\$41.00	AEAA6383	1100	\$42.00	1	2W, 3P	1
AEAA6324	1150	41.20	AEAA6384	1100	42.20	1 1/4	2W, 3P	1
AEAA6424	1150	46.20	AEAA6484	1100	47.20	1 1/4	3W, 4P	1
AEAA6425	1150	46.40	AEAA6485	1100	47.40	1 1/2	3W, 4P	1

AE 60 AMPERE THREADED CAP RECEPTACLES

Raintight—250V, DC, 600V, AC

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
AE627	2-wire, 2-pole	1	250	\$21.00
AE637	3-wire, 3-pole	1	250	24.00
AE647	4-wire, 4-pole	1	250	28.00



AE

Style 2 AE—Grounded Through Extra Pole

AE638	2-wire, 3-pole	1	250	26.00
AE648	3-wire, 4-pole	1	250	30.00

Style 1 AEE—Grounded Through Shell

Complete with AE Mounting Unilet

AEAA6273	1" hub 2-wire, 2-pole	1	750	24.30
AEAA6274	1 1/4" hub 2-wire, 2-pole	1	750	24.50
AEAA6373	1" hub 3-wire, 3-pole	1	750	27.30
AEAA6374	1 1/4" hub 3-wire, 3-pole	1	750	27.50
AEAA6474	1 1/4" hub 4-wire, 4-pole	1	750	31.50
AEAA6475	1 1/2" hub 4-wire, 4-pole	1	750	31.70



AEE

Style 2 AEE—Grounded Through Extra Pole

Complete with AE Mounting Unilet

AEAA6383	1" hub 2-wire, 3-pole	1	750	29.30
AEAA6384	1 1/4" hub 2-wire, 3-pole	1	750	29.50
AEAA6484	1 1/4" hub 3-wire, 4-pole	1	750	34.50
AEAA6485	1 1/2" hub 3-wire, 4-pole	1	750	34.70

APC 60 AMPERE EXTENSION CABLE CONNECTORS

Raintight—250V, DC, 600V, AC



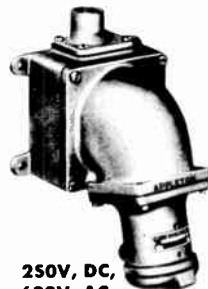
Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell					
APC6252	2-wire, 2-pole	.750 to 1.750	1	600	\$49.00
APC6352	3-wire, 3-pole	.750 to 1.750	1	600	54.00
APC6452	4-wire, 4-pole	.750 to 1.750	1	600	60.00
Style 2—Grounded Through Extra Pole					
APC6362	2-wire, 3-pole	.750 to 1.750	1	600	59.00
APC6462	3-wire, 4-pole	.750 to 1.750	1	600	66.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON PLUGS AND RECEPTACLES

AE 100 AMPERE SPRING COVER RECEPTACLES

Complete with AJ Mounting Unilet



250V, DC, 600V, AC

Std. Pks. 1
Wt. 13 Lbs. Ea.

Style 1—Grounded Through Shell

Cat. No.	Description	List Price
AEAA10214	1 1/4" hub 2-wire, 2-pole	\$43.20
AEAA10215	1 1/2" hub 2-wire, 2-pole	43.40
AEAA10314	1 1/4" hub 3-wire, 3-pole	45.20
AEAA10315	1 1/2" hub 3-wire, 3-pole	45.40
AEAA10415	1 1/2" hub 4-wire, 4-pole	50.40
AEAA10416	2" hub 4-wire, 4-pole	50.60

Style 2—Grounded Through Extra Pole

AEAA10324	1 1/4" hub 2-wire, 3-pole	49.20
AEAA10325	1 1/2" hub 2-wire, 3-pole	49.40
AEAA10425	1 1/2" hub 3-wire, 4-pole	53.40
AEAA10426	2" hub 3-wire, 4-pole	53.60

AE 100 AMPERE SPRING COVER RECEPTACLES

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell				
AE1021	2-wire, 2-pole	1	75	\$27.00
AE1031	3-wire, 3-pole	1	100	29.00
AE1041	4-wire, 4-pole	1	125	34.00
Style 2—Grounded Through Extra Pole				
AE1032	2-wire, 3-pole	1	100	33.00
AE1042	3-wire, 4-pole	1	100	37.00



AEP PLUGS FOR USE WITH AE 100 AMPERE RECEPTACLES

Cat. No.	Description	Cable Diam.	List Price
Style 1—Grounded Through Shell			
AEP10213	2-wire, 2 pole	1.375 to 1.750	\$31.50
AEP10313	3-wire, 3-pole	1.375 to 1.750	34.00
AEP10413	4-wire, 4-pole	1.375 to 1.750	38.00
Style 2—Grounded Through Extra Pole			
AEP10323	2-wire, 3-pole	1.375 to 1.750	37.00
AEP10423	3-wire, 4-pole	1.375 to 1.750	41.00



AE 100 AMPERE THREADED CAP RECEPTACLES

Raintight—250V, DC, 600V, AC

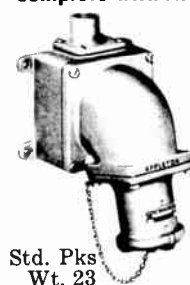
Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell				
AE1027	2-wire, 2-pole	1	340	\$29.00
AE1037	3-wire, 3-pole	1	340	31.00
AE1047	4-wire, 4-pole	1	340	36.00
Style 2—Grounded Through Extra Pole				
AE1038	2-wire, 3-pole	1	340	35.00
AE1048	3-wire, 4-pole	1	340	39.00



AE 100 AMPERE THREADED CAP RECEPTACLES

Complete with AJ Mounting Unilet—Raintight—250V, DC, 600V, AC

Cat. No.	Description	List Price
Style 1—Grounded Through Shell		
AEAA10274	1" hub 2-wire, 2-pole	\$45.20
AEAA10275	1 1/2" hub 2-wire, 2-pole	45.40
AEAA10374	1 1/4" hub 3-wire, 3-pole	47.20
AEAA10375	1 1/2" hub 3-wire, 3-pole	47.40
AEAA10475	1 1/2" hub 4-wire, 4-pole	52.40
AEAA10476	2" hub 4-wire, 4-pole	52.60
Style 2—Grounded Through Extra Pole		
AEAA10384	1 1/4" hub 2-wire, 3-pole	51.20
AEAA10385	1 1/2" hub 2-wire, 3-pole	51.40
AEAA10485	1 1/2" hub 3-wire, 4-pole	55.40
AEAA10486	2" hub 3-wire, 4-pole	55.60



Std. Pks
Wt. 23
Lbs. Ea.

AEP PLUGS FOR USE WITH AE 100 AMPERE RECEPTACLES

Cat. No.	Description	Cable Diam.	List Price
Style 1—Grounded Through Shell			
AEP10253	2-wire, 2-pole	1.375 to 1.750	\$34.50
AEP10353	3-wire, 3-pole	1.375 to 1.750	37.00
AEP10453	4-wire, 4-pole	1.375 to 1.750	41.00
Style 2—Grounded Through Extra Pole			
AEP10363	2-wire, 3-pole	1.375 to 1.750	40.00
AEP10463	3-wire, 4-pole	1.375 to 1.750	44.00



Std. Pks. 1 Wt. 4 Lbs. Each.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON UNILETS



APC 100 AMPERE EXTENSION CABLE CONNECTORS
Raintight—250V, DC, 600V, AC

Complete with AJ Mounting Unilet

Cat. No.	Description	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
APC CONNECTORS Grounded Through Shell—Style 1					
APC10253	2-wire, 2-pole	1.375 to 1.750 Dia. Cable	1	850	\$74.50
APC10353	3-wire, 3-pole		1	800	79.00
APC10453	4-wire, 4-pole		1	900	88.00
APC CONNECTORS Grounded Through Extra Pole Style 2					
APC10363	2-wire, 3-pole	1.375 to 1.750 Dia. Cable	1	800	\$86.00
APC10463	3-wire, 4-pole		1	800	94.00

APPLETON ALUMINUM UNILETS U. L. Listed

FORM 85 PRESSURE CAST ALUMINUM UNILETS
For Use with Threaded Rigid Conduit



Type C					Type E				
Cat. No.	Size In.	Std. Pkg.	Wt. # 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt. # 100	List Price
C50-A	1/2	100	28	\$.70	E50-A	1/2	100	25	\$.65
C75-A	3/4	50	41	.85	E75-A	3/4	50	36	.70
C100-A	1	20	75	1.30	E100-A	1	20	55	1.00
C125-A*	1 1/4	20	120	2.05					
C150-A*	1 1/2	10	160	2.70					
C200-A*	2	5	200	4.50					



Type LB			Type LL			Type LR		
Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
LB50-A	28	\$.70	LL50-A	30	\$.70	LR50-A	28	\$.70
LB75-A	42	.85	LL75-A	44	.85	LR75-A	44	.85
LB100-A	64	1.30	LL100-A	63	1.30	LR100-A	63	1.30
LB125-A*	114	2.05	LL125-A*	123	2.05	LR125-A*	123	2.05
LB150-A*	155	2.70	LL150-A*	140	2.70	LR150-A*	138	2.70
LB200-A*	280	4.50	LL200-A*	270	4.50	LR200-A*	260	4.50
LB250-A*	400	9.40						
LB300-A*	450	12.50						
LB350-A*	750	20.60						
LB400-A*	800	23.30						



Type T					Type X				
Cat. No.	Size In.	Std. Pkg.	Wt. # 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt. # 100	List Price
T50-A	1/2	50	30	\$.90	X50-A	1/2	50	35	\$1.15
T75-A	3/4	50	46	1.10	X75-A	3/4	50	51	1.45
T100-A	1	20	72	1.60	X100-A	1	20	84	2.00
T125-A*	1 1/4	10	135	2.55					
T150-A*	1 1/2	10	155	3.40					
T200-A*	2	5	300	5.30					
T250-A*	2 1/2	1	400	11.00					
T300-A*	3	1	500	16.00					

*Sand cast aluminum—Form 35.

"COPPER FREE" ALUMINUM COVERS

For Use with Form 85 and Form 35 Threaded Aluminum Unilets



Stamped Aluminum					Cast Aluminum				
Cat. No.	Size In.	Std. Pkg.	Wt. 100	List Price	Cat. No.	Size In.	Std. Pkg.	Wt. 100	List Price
K50-A	1/2	200	4	\$.15	K50-CA	1/2	200	7	\$.35
K75-A	3/4	200	6	.20	K75-CA	3/4	200	10	.45
K100-A	1	100	7	.30	K100-CA	1	100	13	.70
K125-A	1 1/4	100	14	.45	K125-CA	1 1/4	20	34	1.00
K150-A	1 1/2	100	14	.45	K150-CA	1 1/2	20	34	1.00
K200-A	2	50	22	.80	K200-CA	2	25	64	1.40
K250-A	2 1/2	5	75	1.25	K250-CA	2 1/2	5	115	1.70
K300-A	3	5	75	1.25	K300-CA	3	5	115	1.70
K350-A	3 1/2	5	130	1.60	K350-CA	3 1/2	5	185	2.50
K400-A	4	5	130	1.60	K400-CA	4	5	185	2.50

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON ALUMINUM UNILETS

FORM 35 PRESSURE CAST "COPPER FREE" ALUMINUM UNILETS
For Use with Threaded Rigid Conduit Complete with gasket



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
LBD200-A	2"	1	400	\$11.00
LBD250-A	2 1/2"	1	675	32.50
LBD300-A	3"	1	750	32.50

FS SINGLE GANG "COPPER FREE" ALUMINUM UNILETS
For Use with Threaded Rigid Conduit



Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	List Price	Size In.	Std. Pkg.
FS-1-50-A	81	\$1.45	FSC-1-50-A	72	\$1.65	1/2	25
FS-1-75-A	74	1.55	FSC-1-75-A	80	1.80	3/4	25
FS-1-100-A	73	1.70	FSC-1-100-A	65	2.20	1	15

FS SINGLE GANG "COPPER FREE" UNILETS



Cat. No.	Size In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FSS-1-50-A	1/2	25	74	\$1.65
FSS-1-75-A	3/4	25	78	1.80
FSCT-1-50-A	1/2	25	70	2.00
FSCT-1-75-A	3/4	25	74	2.50
FSCC-1-50-75-A	1/2-3/4*	25	80	2.50

*Largest hub at left in illustration

FS SINGLE GANG "COPPER FREE" ALUMINUM COVERS

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Stamped Covers				
FSK-1TS-A	Operating type for square handle tumbler or toggle flush switches	50	11	\$.32
FSK-1DR-A	For standard 2 or 3 wire duplex receptacle	50	9	.32
FSK-1B-A	Blank	100	11	.21
Vaportight Covers				
FSK-1VS-A	Operating type for square handle tumbler or toggle flush switches	25	62	3.54
FSK-1PB-A	Start (Green) Stop (Red) push buttons. Takes Arrow 1615-MA	25	60	3.60
FSK-1B-CA	Blank	25	10	.53
Vaportight Receptacle Covers				
FSK-1VR-A	Spring cover, 1 1/16" dia. hole	50	53	2.54
FSK-1VDR-A	For duplex flush receptacle	50	52	3.00

FS SINGLE GANG ALUMINUM UNILET GASKETS

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
FS-GK-1N	Neoprene	50	2	\$.40
FS-GK-1V	Vellutex	50	2	.40

JB ALUMINUM JUNCTION UNILETS

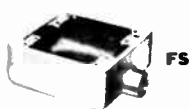


Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
JBX50L-A	4 Tapped Holes and 2 Close-Up Plugs	10	95	\$2.20
JBX75L-A		10	98	2.20

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON ALUMINUM UNILETS

FS TWO GANG "COPPER FREE" ALUMINUM UNILETS
For Use with Threaded Rigid Conduit



Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Std. Pkg.
FS-2-50-A	102	\$2.65	FSC-2-50-A	100	\$2.85	1/2	25
FS-2-75-A	95	2.75	FSC-2-75-A	100	3.00	3/4	15

FS TWO GANG "COPPER FREE" ALUMINUM COVERS

Cat. No. Description Std. Pkg. Wt.-Lbs. Per 100 List Price

Stamped Covers



FSK-2DR-A For standard duplex flush receptacles..... 25 16 **\$.60**



FSK-2TS-A For square handle tumbler or toggle flush switches..... 25 20 **.60**



FSK-2VS-A For square handle tumbler or toggle flush switches..... 15 134 **6.00**



FSK-2B-CA Blank..... 15 40 **1.00**

FS TWO GANG ALUMINUM UNILET GASKETS

FS-GK-2N	Neoprene.....	50	1	.50
FS-GK-2V	Vellutex.....	50	1	.50

APPLETON EXPLOSION-PROOF UNILETS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant—Raintight Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III

UNY, UNF AND UNL UNIONS

UNY Male UNF Female and UNL 90° Elbow unions have cadmium finish. 1/2", 3/4", and 1" unions are also listed for Class I, Groups A and B. U. S. Pat. No. 2,900, 436; Can. Pat. No. 621,364.



MALE

FEMALE

*Size of right end is given first.

Size	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
Short							
MALE UNIONS							
1/2	50	UNY50R	50	\$1.09	FEMALE UNIONS		
3/4-1/2*	50	UNY75-50R	66	1.54	1/2	46	\$.99
3/4	50	UNY75R	63	1.54	3/4	56	1.35
1	25	UNY100R	110	2.64	1	51	1.35
Long							
1 1/4	25	UNY125R	166	4.14	1 1/4	133	3.79
1 1/2	25	UNY150R	216	5.34	1 1/2	188	4.89
2	10	UNY200R	395	6.89	2	338	6.30
Short							
2 1/2	10	UNY250R	835	10.70	2 1/2	800	8.70
3	5	UNY300R	935	14.50	3	815	12.50
3 1/2	5	UNY350R	1065	23.60	3 1/2	910	19.70
4	5	UNY400R	1250	26.90	4	1060	23.10

UNL 90° ELBOW UNIONS

Size In.	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2-3/4*	25	UNL50-75	74	\$2.80
1/2-1/2	25	UNL50	82	2.80
3/4-1/2*	25	UNL75-50	62	2.80
3/4-3/4	25	UNL75	60	2.80

*Male end given first.



UNL50

APPLETON EXPLOSION-PROOF UNILETS

UNF AND UNFL FEMALE EXPANSION UNIONS

All have cadmium finish. UNA Elbows are also listed for Class I, Group C and D; Class II, Groups E, F and G, Class III.



STANDARD—MALE

LONG—FEMALE

Size In.	Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Standard		
					Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100
MALE—Standard							
1/2	UNY50	50	40	\$1.35	MALE—Long		
3/4	UNY75	50	54	1.95	UNYL50	25	49
1	UNY100	25	84	3.40	UNYL75	25	70
FEMALE							
1/2	UNFL50	25	52	\$2.10	UNFL100	10	110
3/4	UNFL75	25	72	3.00	UNF50	40	42
1	UNFL100	10	113	5.10	UNF75	50	56
					UNF100	25	88

45° FEMALE CONDUIT ELBOWS

Cat. No.	Size-In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
ELF45-50	1/2	200	25	\$.90
ELF45-75	3/4	100	45	1.00
ELF45-100	1	50	80	1.30
ELF45-125	1 1/4	25	115	1.80



90° FEMALE HUB CONDUIT ELBOW—SHORT

ELFH90-50	1/2	100	28	\$.75
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90° CONDUIT ELBOWS—SHORT

Size In.	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	200	ELM90-50	25	\$1.30	ELF90-50	40	\$.90
3/4	100	ELM90-75	40	1.50	ELF90-75	58	1.00
1	50	ELM90-100	60	1.80	ELF90-100	87	1.30
1 1/4	25	ELM90-125	94	2.10	ELF90-125	160	2.10

Class I, Groups A (Acetylene and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

90° MALE AND FEMALE CONDUIT ELBOWS

Size In.	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	200	ELMF90-50	40	\$1.30	ELMFL90-50	35	\$1.35
3/4	100	ELMF90-75	51	1.50	ELMFL90-75	46	1.50
1	50	ELMF90-100	85	1.80	ELMFL90-100	85	1.85
1 1/4	25	ELMF90-125	150	2.10	ELMFL90-125	125	3.15

UNA FLEXIBLE ELBOWS

For Use only Adjacent to Unilet

For Connecting Conduit to Conduit



UNAF50

Size In.	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	50	UNAM50	90	\$5.00	UNAF50	92	\$3.90
3/4	50	UNAM75	110	5.50	UNAF75	104	4.80
1	50	UNAM100	150	6.00	UNAF100	140	4.40

For Connecting Conduit to o Unilet



UNAM50

ECDB COMBINATION DRAIN-BREATHER



Elbow

Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Groups C and D; Class II, Groups E, F and G; Class III.



Straight

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
EDCB50	1/2" straight drain-breather	25	18	\$3.50
EDCB9050	1/2" 90° elbow drain-breather	10	45	4.70

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FLEXIBLE COUPLINGS

Explosion-Proof, Dust-Ignition-Proof and Rain-Resistant—Watertight. Class I, Group D; Class II, Groups E, F and G; Class III. 1/2", 3/4" and 1" couplings are also listed for Class I, Group C.

Special lengths of EX couplings are available.



EXJ
Two Female Nipples



EXH
Two Male Nipples



EXG
One Male Nipple
One Female Nipple

Cat. No.	O.A. Lgth.-In.	Cat. No.	O.A. Lgth.-In.	Code No.	O.A. Lgth.-In.	Flexible Lgth.-In.	Size In.	Price
EXJ14	7	EXH14	7 1/8	EXG14	7 1/16	4	1/2	\$10.00
EXJ24	7 1/16	EXH24	7 1/16	EXG24	7 1/16	4	3/4	12.00
EXJ16	9	EXH16	9 1/8	EXG16	9 1/16	6	1/2	11.10
EXJ26	9 1/16	EXH26	9 1/16	EXG26	9 1/16	6	3/4	13.50
EXJ36	9 5/8	EXH36	10	EXG36	9 13/16	6	1	24.20
EXJ18	11	EXH18	11 1/8	EXG18	11 1/16	8	1/2	12.10
EXJ28	11 1/16	EXH28	11 1/16	EXG28	11 1/16	8	3/4	15.00
EXJ38	11 5/8	EXH38	12	EXG38	11 13/16	8	1	26.30
EXJ110	13	EXH110	13 1/8	EXG110	13 1/16	10	1/2	13.20
EXJ210	13 1/16	EXH210	13 1/16	EXG210	13 1/16	10	3/4	16.40
EXJ310	13 5/8	EXH310	14	EXG310	13 13/16	10	1	28.40
EXJ112	15	EXH112	15 1/8	EXG112	15 1/16	12	1/2	14.20
EXJ212	15 1/16	EXH212	15 1/16	EXG212	15 1/16	12	3/4	17.90
EXJ312	15 5/8	EXH312	16	EXG312	15 13/16	12	1	30.50
EXJ412	16 5/8	EXH412	16 5/8	EXG412	16 5/8	12	1 1/4	45.20
EXJ512	16 5/8	EXH512	16 5/8	EXG512	16 5/8	12	1 1/2	62.00
EXJ612	17 1/8	EXH612	17 1/4	EXG612	17 1/16	12	2	80.00
EXJ115	18	EXH115	18 1/8	EXG115	18 1/16	15	1/2	15.80
EXJ215	18 1/16	EXH215	18 1/16	EXG215	18 1/16	15	3/4	20.10
EXJ315	18 5/8	EXH315	19	EXG315	18 13/16	15	1	33.60
EXJ415	19 5/8	EXH415	19 5/8	EXG415	19 5/8	15	1 1/4	49.30
EXJ515	19 5/8	EXH515	19 5/8	EXG515	19 5/8	15	1 1/2	67.00
EXJ615	20 1/8	EXH615	20 1/4	EXG615	20 1/16	15	2	86.50
EXJ118	21	EXH118	21 1/8	EXG118	21 1/16	18	1/2	17.40
EXJ218	21 1/16	EXH218	21 1/16	EXG218	21 1/16	18	3/4	22.30
EXJ318	21 5/8	EXH318	22	EXG318	21 13/16	18	1	36.80
EXJ418	22 5/8	EXH418	22 5/8	EXG418	22 5/8	18	1 1/4	53.50
EXJ518	22 5/8	EXH518	22 5/8	EXG518	22 5/8	18	1 1/2	72.50
EXJ618	23 1/8	EXH618	23 1/4	EXG618	23 1/16	18	2	92.50
EXJ121	24	EXH121	24 1/8	EXG121	24 1/16	21	1/2	18.90
EXJ221	24 1/16	EXH221	24 1/16	EXG221	24 1/16	21	3/4	24.50
EXJ321	24 5/8	EXH321	25	EXG321	24 13/16	21	1	39.90
EXJ421	25 5/8	EXH421	25 5/8	EXG421	25 5/8	21	1 1/4	57.50
EXJ521	25 5/8	EXH521	25 5/8	EXG521	25 5/8	21	1 1/2	77.50
EXJ621	26 1/8	EXH621	26 1/4	EXG621	26 1/16	21	2	99.00
EXJ124	27	EXH124	27 1/8	EXG124	27 1/16	24	1/2	20.50
EXJ224	27 1/16	EXH224	27 1/16	EXG224	27 1/16	24	3/4	26.70
EXJ324	27 5/8	EXH324	28	EXG324	27 13/16	24	1	43.10
EXJ424	28 5/8	EXH424	28 5/8	EXG424	28 5/8	24	1 1/4	62.00
EXJ524	28 5/8	EXH524	28 5/8	EXG524	28 5/8	24	1 1/2	82.50
EXJ624	29 1/8	EXH624	29 1/4	EXG624	29 1/16	24	2	105.00
EXJ127	30	EXH127	30 1/8	EXG127	30 1/16	27	1/2	22.10
EXJ227	30 1/16	EXH227	30 1/16	EXG227	30 1/16	27	3/4	28.90
EXJ327	30 5/8	EXH327	31	EXG327	30 13/16	27	1	46.20
EXJ427	31 5/8	EXH427	31 5/8	EXG427	31 5/8	27	1 1/4	66.00
EXJ527	31 5/8	EXH527	31 5/8	EXG527	31 5/8	27	1 1/2	87.50
EXJ627	32 1/8	EXH627	32 1/4	EXG627	32 1/16	27	2	112.00
EXJ130	33	EXH130	33 1/8	EXG130	33 1/16	30	1/2	23.70
EXJ230	33 1/16	EXH230	33 1/16	EXG230	33 1/16	30	3/4	31.10
EXJ330	33 5/8	EXH330	34	EXG330	33 13/16	30	1	49.40
EXJ430	34 5/8	EXH430	34 5/8	EXG430	34 5/8	30	1 1/4	70.00
EXJ530	34 5/8	EXH530	34 5/8	EXG530	34 5/8	30	1 1/2	92.50
EXJ630	35 1/8	EXH630	35 1/4	EXG630	35 1/16	30	2	118.00
EXJ133	36	EXH133	36 1/8	EXG133	36 1/16	33	1/2	25.20
EXJ233	36 1/16	EXH233	36 1/16	EXG233	36 1/16	33	3/4	33.30
EXJ333	36 5/8	EXH333	37	EXG333	36 13/16	33	1	52.50
EXJ433	37 5/8	EXH433	37 5/8	EXG433	37 5/8	33	1 1/4	74.00
EXJ533	37 5/8	EXH533	37 5/8	EXG533	37 5/8	33	1 1/2	97.50
EXJ633	38 1/8	EXH633	38 1/4	EXG633	38 1/16	33	2	124.00
EXJ136	39	EXH136	39 1/8	EXG136	39 1/16	36	1/2	26.80
EXJ236	39 1/16	EXH236	39 1/16	EXG236	39 1/16	36	3/4	35.50
EXJ336	39 5/8	EXH336	40	EXG336	39 13/16	36	1	56.00
EXJ436	40 5/8	EXH436	40 5/8	EXG436	40 5/8	36	1 1/4	78.00
EXJ536	40 5/8	EXH536	40 5/8	EXG536	40 5/8	36	1 1/2	103.00
EXJ636	41 1/8	EXH636	41 1/4	EXG636	41 1/16	36	2	131.00

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON FLEXIBLE COUPLINGS

Explosion-Proof, Dust-Ignition-Proof and Rain-Resistant—Watertight. Class I, Group D; Class II, Groups E, F and G; Class III. 1/2", 3/4" and 1" couplings are also listed for Class I, Group C.

Special lengths of EX couplings are available.



EXL
One Female Nipple
One Female Union



EXK
One Male Nipple
One Female Union

Cat. No.	O.A. Lgth.-In.	Cat. No.	O.A. Lgth.-In.	Flexible Lgth.-In.	Size In.	Price
EXL14	7 5/16	4	1/2	\$10.90		
EXL24	7 5/16	4	3/4	12.90		
EXL16	9 5/16	6	1/2	11.90		
EXL26	9 5/16	6	3/4	14.30		
EXL36	11 5/16	6	1	26.30		
EXL18	11 5/16	8	1/2	13.00		
EXL28	11 5/16	8	3/4	15.80		
EXL38	13 5/16	8	1	28.40		
EXL110	13 5/16	10	1/2	14.00		
EXL210	13 5/16	10	3/4	17.30		
EXL310	15 5/16	10	1	30.50		
EXL112	15 5/16	12	1/2	15.10		
EXL212	15 5/16	12	3/4	18.70		
EXL312	17 5/16	12	1	32.60		
EXL412	18 5/16	12	1 1/4	48.30		
EXL512	18 5/16	12	1 1/2	66.00		
EXL612	18 5/16	12	2	87.50		
EXL115	18 5/16	15	1/2	16.60		
EXL215	18 5/16	15	3/4	20.90		
EXL315	20 5/16	15	1	35.70		
EXL415	21 5/16	15	1 1/4	52.50		
EXL515	21 5/16	15	1 1/2	71.00		
EXL615	21 5/16	15	2	93.50		
EXL118	21 5/16	18	1/2	18.20		
EXL218	21 5/16	18	3/4	23.10		
EXL318	23 5/16	18	1	38.90		
EXL418	24 5/16	18	1 1/4	56.50		
EXL518	24 5/16	18	1 1/2	76.00		
EXL618	24 5/16	18	2	100.00		
EXL121	24 5/16	21	1/2	19.80		
EXL221	24 5/16	21	3/4	25.40		
EXL321	26 5/16	21	1	42.00		
EXL421	27 5/16	21	1 1/4	61.00		
EXL521	27 5/16	21	1 1/2	81.00		
EXL621	27 5/16	21	2	107.00		
EXL124	27 5/16	24	1/2	21.40		
EXL224	27 5/16	24	3/4	27.60		
EXL324	29 5/16	24	1	45.20		
EXL424	30 5/16	24	1 1/4	65.00		
EXL524	30 5/16	24	1 1/2	86.00		
EXL624	30 5/16	24	2	113.00		
EXL127	30 5/16	27	1/2	22.90		
EXL227	30 5/16	27	3/4	29.80		
EXL327	32 5/16	27	1	48.30		
EXL427	33 5/16	27	1 1/4	69.00		
EXL527	33 5/16	27	1 1/2	91.00		
EXL627	33 5/16	27	2	119.00		
EXL130	33 5/16	30	1/2	24.50		
EXL230	33 5/16	30	3/4	32.00		
EXL330	35 5/16	30	1	51.50		
EXL430	36 5/16	30	1 1/4	73.00		
EXL530	36 5/16	30	1 1/2	96.00		
EXL630	36 5/16	30	2	125.00		
EXL133	36 5/16	33	1/2	26.10		
EXL233	36 5/16	33	3/4	34.20		
EXL333	38 5/16	33	1	55.00		
EXL433	39 5/16	33	1 1/4	77.00		
EXL533	39 5/16	33	1 1/2	101.00		
EXL633	39 5/16	33	2	132.00		
EXL136	39 5/16	36	1/2	27.70		
EXL236	39 5/16	36	3/4	36.40		
EXL336	41 5/16	36	1	58.00		
EXL436	42 5/16	36	1 1/4	81.50		
EXL536	42 5/16	36	1 1/2	106.00		
EXL636	42 5/16	36	2	138.00		

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

EYS SEALING UNILETS
For Sealing Vertical Runs of Conduit

Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Groups C and D; Class II, Groups E, F, and G; Class III. Cadmium finish.



EYS SEALING UNILETS				ESU SEALING UNILETS			
Size In.	Cat. No.	Length In.	List Price	Cat. No.	Length In.	List Price	List Price
1/2	EYSF50	3 1/4	75 \$1.50	EYSM50	3 1/8	80 \$1.60	
3/4	EYSF75	3 3/8	121 1.80	EYSM75	4 1/16	127 1.90	
1	EYSF100	4 1/4	162 2.30	EYSM100	5 1/8	182 2.40	
1 1/4	EYSF125	5 1/16	288 2.80	EYSM125	5 15/16	280 2.90	
1 1/2	EYSF150	5 1/2	398 4.20	EYSM150	6 1/2	425 4.40	
2	EYSF200	6 1/4	580 5.50	EYSM200	7 1/2	650 5.80	
2 1/2	EYSF250	7 1/16	800 8.50	EYSM250	8 13/16	900 9.50	
3	EYSF300	8 1/2	1325 10.50	EYSM300	9 15/16	1450 10.50	
4	EYSF400	8 5/8	1750 44.00	EYSM400	10 1/8	1600 44.00	

ESU SEALING UNILETS
For Sealing Vertical and Horizontal Runs of Conduit

Size In.	Cat. No.	Length In.	List Price	Cat. No.	Length In.	List Price
1/2	ESUM50	3 11/16	138 \$2.60	ESUF50	3	130 \$2.50
3/4	ESUM75	3 15/16	128 3.30	ESUF75	3 1/8	140 3.20
1	ESUM100	4 1/4	177 4.10	ESUF100	3 3/8	161 4.00
1 1/4	ESUM125	4 7/8	267 5.10	ESUF125	4	243 5.00
1 1/2	ESUM150	5 1/2	493 8.00	ESUF150	4 1/4	455 7.50
2	ESUM200	6 1/4	590 10.00	ESUF200	5 1/4	550 10.00
2 1/2	ESUM250	7 15/16	1075 17.00	ESUF250	7 15/16	1000 16.00
3	ESUM300	8 5/8	1350 25.00	ESUF300	8 5/8	1250 24.00

SF DRAIN SEAL UNILETS
For Sealing Vertical Runs of Conduit

Size In.	Cat. No.	Length In.	List Price	Cat. No.	Length In.	List Price
1/2	SF50	3 5/8	130 \$5.30	SFM50	4 1/4	135 \$5.40
3/4	SF75	3 5/8	119 5.60	SFM75	4 1/4	128 6.00
1	SF100	4 1/16	140 6.50	SFM100	4 7/8	156 7.00
1 1/4	SF125	5 1/16	273 7.00	SFM125	5 7/8	302 7.50
1 1/2	SF150	5 1/2	375 9.00	SFM150	6 7/16	415 9.50
2	SF200	6 1/2	625 10.00	SFM200	7 9/16	670 10.50
3	SF300	5 9/16	1000 20.00	SFM300	6 3/4	1275 24.00
4	SF400	6 13/16	1825 48.00	SFM400	8 1/16	1800 55.00

U.S. Pat. No. 2,835,722; Can. Pat. No. 609,406.

*The close nipple furnished may be used interchangeably in either top or bottom hub.

APELCO SEALING CEMENT
For Explosion-Proof Sealing Unilets

Cat. No.	Volume Cu. In.	Quantity	Std. Pkg.	Wt.-Lbs. Per 100	List Price
C04	5.25	4 oz.	24	55	\$.60
C08	11.5	8 oz.	24	107	.80
C1	23	1 lb.	12	177	1.30
C2	46	2 lb.	10	325	2.20
C5	115	5 lb.	5	650	3.60
C10	230	10 lb.	1	1275	7.20

A specially prepared compound that is U.L. approved for making seals in conduit systems installed in hazardous locations.

*Volume of cubic inches this amount will fill when set.

ASBESTOS FIBER FILLER

Recommended for use as a filler to make dams where required to prevent sealing compound from leaking while being poured in its fluid state. U.L. approved.

Cat. No.	Quantity	Std. Pkg.	Wt.-Lbs. Per 100	List Price	Cat. No.	Quantity	Std. Pkg.	Wt.-Lbs. Per 100	List Price
F03E	3/8 oz.	10	7	\$.50	F04	4 oz.	5	38	\$3.40
F07E	3/4 oz.	10	14	.80	F08	8 oz.	5	50	5.80
F01	1 oz.	10	20	1.00	F1	1 lb.	1	100	9.60
F02	2 oz.	10	29	1.80					

THREADED REDUCING BUSHINGS—STEEL & MALLEABLE IRON

These Appletton products are listed in the Roughing-In section of this catalog.

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10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

ECC PORTABLE CORD CONNECTORS

Use with #18 to #12 AWG 3-Conductor Cord-Explosion-Proof, Dust-Ignition-Proof sealed Group G; and Class III, Class I Groups C and D; Class II.

20A, 300V, AC or DC AF Wire Leads*		20A, 460V, AC or DC RH Wire Leads*		Std. Pkg.	Wt.-Lbs. Per 100	List Price
Cat. No.	Cat. No.	Cord Diameter	Nipple Size-In.	1		
ECC503AF	ECC503RH	.250 to .375	1/2		83	\$9.50
ECC505AF	ECC505RH	.375 to .500	1/2		83	9.50
ECC506AF	ECC506RH	.500 to .625	1/2		83	9.50
ECC753AF	ECC753RH	.250 to .375	3/4		83	9.50
ECC755AF	ECC755RH	.375 to .500	3/4		83	9.50
ECC756AF	ECC756RH	.500 to .625	3/4		83	9.50

*#12 leads of #12 stranded wire are furnished.

APPLETON EXPLOSION-PROOF UNILETS

THREADED CLOSE-UP PLUGS

Cat. No.	Size-In.	Head	Std. Pkg.	Wt.-Lbs. Per 100	List Price
PLG50*	1/2	Recessed	500	7	\$.18
PLG75*	3/4	Recessed	500	10	.22
Cast Malleable Iron					
PLG100	1	Recessed	100	16	.26
PLG125	1 1/4	Recessed	100	34	.33
PLG150	1 1/2	Recessed	100	47	.45
PLG200	2	Recessed	50	79	.79
PLG250	2 1/2	Recessed	50	120	1.29
PLG300	3	Recessed	25	218	1.89
PLG50-S	1/2	Square	500	9	.18
PLG75-S	3/4	Square	250	12	.22
PLG100-S	1	Square	100	27	.26
PLG125-S	1 1/4	Square	100	38	.33
PLG150-S	1 1/2	Square	100	52	.45
PLG200-S	2	Square	50	70	.79
PLG250-S	2 1/2	Square	50	112	1.29
PLG300-S	3	Square	25	200	1.89
PLG350-S	3 1/2	Square	25	230	2.40
PLG400-S	4	Square	25	360	3.20

GR JUNCTION UNILETS

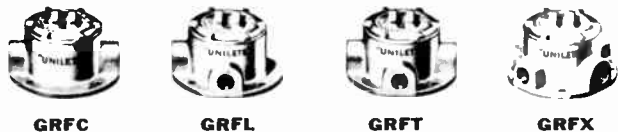
Explosion-Proof, Dust-Ignition Proof and Weather Resistant—Raintight Class I, Groups C and D; Class II, Groups E, F and G; Class III Malleable Iron—Aluminum Covers* Threaded for Rigid Conduit.



Size Hub	Open. Diam. In.	Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	List Price
1/2	3/8	GRE50	240	\$3.80	GRC50	250	\$4.00	GRLB50	255	\$4.00
3/4	3/8	GRE75	210	3.90	GRC75	240	4.20	GRLB75	240	4.20
1	3/8	GRE100	200	4.00	GRC100	280	4.40	GRLB100	290	4.40
1 1/4	3 15/16	GRE125	350	7.00	GRC125	385	7.50	GRLB125	380	7.50
1 1/2	4 7/8	GRE150	750	15.00	GRC150	760	15.00	GRLB150	750	15.00
1/2	3/8	GRL50	240	4.00	GRT50	255	4.20	GRN50	275	4.20
3/4	3/8	GRL75	240	4.20	GRT75	250	4.50	GRN75	240	4.20
1	3/8	GRL100	280	4.40	GRT100	295	4.70	GRN100	270	4.40
1 1/4	3 15/16	GRL125	375	7.50	GRT125	395	8.00	GRN125	440	7.50
1 1/2	4 7/8	GRL150	750	15.00	GRT150	800	16.40	GRN150	910	15.00
1/2	3/8	GRTA50	300	4.40	GRLA50	270	4.20	GRCA50	270	4.20
3/4	3/8	GRTA75	300	4.80	GRLA75	235	4.50	GRCA75	255	4.50

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON
EXPLOSION-PROOF JUNCTION UNILETS
GR JUNCTION UNILETS WITH FLANGE



Size Hub	Cover Open. Diam. In.	Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	List Price
1/2	3 3/8	GRFC50	425	\$4.60	GRFL50	400	\$4.60
3/4	3 3/8	GRFC75	400	4.80	GRFL75	400	4.80
1	3 3/8	GRFC100	365	5.20	GRFL100	350	5.20
1/2	3 3/8	GRFX50	450	5.40	GRFT50	450	5.00
3/4	3 3/8	GRFX75	400	5.60	GRFT75	400	5.20
1	3 3/8	GRFX100	370	6.00	GRFT100	325	5.60

GR AND GRF UNILET COVERS AND CANOPIES

Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Groups C and D; Class II, Groups E, F and G, and Class III



Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GRK-1	Surface cover	5	55	\$1.60
GRK-2	Surface cover	5	75	2.30
GRK-3	Surface cover	5	100	7.10
GRK-1F	Flush cover	5	105	1.60
GRK-2F	Flush cover	5	140	2.30
GRK-1SC	Sealing cover	5	110	2.10
GRK-2SC	Sealing cover	5	176	2.70
GRK-3SC	Sealing cover	5	383	7.90
GRK-1DC	Dome cover—2" deep	5	70	2.30
GRK-75U	Hub cover, 3/4" union hub	5	150	5.80
GRK-50	1/2" hub cover	5	145	3.30
GRK-75	3/4" hub cover	5	140	3.70
GRK-50C	1/2" canopy—4 1/2" long	5	260	7.40
GRK-75C	3/4" canopy—4 1/2" long	5	250	7.40
GRK-100C	1" canopy—4 1/2" long	5	325	7.40

GRH JUNCTION UNILETS

Malleable Iron—Aluminum Covers Threaded for Rigid Conduit Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Groups B, C and D (NEMA 78CD); Class II, Groups E, F and G (Nema 9EFG); and Class III (Nema 3, 3R and 5).

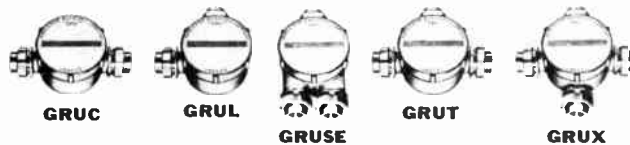


Size In.	Cat. No.	Cat. No.	Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100	List Price	
1/2	GRHLB50	GRHL50	GRHC50	5	250	\$5.20	
3/4	GRHLB75	GRHL75	GRHC75	5	220	5.40	
1	GRHLB100	GRHL100	GRHC100	5	290	5.60	
Size Hub In.	Std. Pkg.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	5	GRHT50	260	\$5.40	GRHX50	275	\$5.80
3/4	5	GRHT75	260	5.70	GRHX75	204	6.30
1	5	GRHT100	260	6.00	GRHX100	324	6.80

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON
EXPLOSION-PROOF JUNCTION UNILETS
GRU JUNCTION UNILETS WITH UNION HUBS
Class I, Groups C and D; Class II, E, F & G and Class III



Size Hub, In.	Cover Open. Diam., In.	Cat. No. GRUC	Cat. No. GRUL	Wt.-Lbs. Per 100	List Price	Cat. No. GRUT	Wt.-Lbs. Per 100	List Price
1/2	3 1/4	GRUC50	GRUL50	400	\$5.60	GRUT50	450	\$6.50
3/4	3 1/4	GRUC75	GRUL75	375	5.60	GRUT75	425	6.50
1	3 1/4	.....	.....	.....	.....	GRUT100	600	7.60
		GRUSE	GRUX					
1/2	3 1/4	GRUSE50	GRUX50	500	7.40			
3/4	3 1/4	GRUSE75	GRUX75	500	7.40			

COVERS FOR GRU JUNCTION UNILETS
Furnished with Internal Threads

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GRUK-S	Surface Cover	1	90	\$2.00
GRUK-SC	Sealing Cover	1	90	3.00

EXPLOSION-PROOF PULLING ELBOW

Size, In.	Cat. No.	Description	Std. Pkg.	Wt./100	List Price
1/2	ELBY-50	90° Female	10	76	\$1.10
3/4	ELBY-75	With Threaded	5	80	1.40
1	ELBY-100	Removable	5	128	2.10
1 1/4	ELBY-125	Cover	1	205	4.50

JUNCTION UNILETS

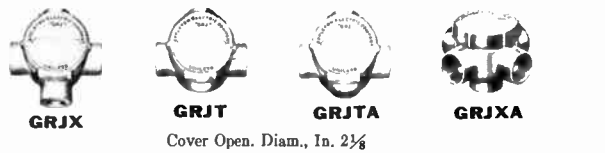
Explosion-Proof, Dust-Ignition Proof and Weather Resistant—Raintight. Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

*With threaded cover, 8 conduit hubs and close-up-plugs for all but three 3/4" hubs.
**With threaded cover but without close-up plugs.



Cat. No.	Ea. Side Inch	Hubs—Size Top Inch	Bottom Inch	Back Inch	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GRUO-1	1-3/4	2-3/4	3-3/4	1-3/4	5	420	\$8.35
GRUO-2	1-3/4	2-3/4	2-3/4	1-3/4	5	425	8.60
GRUJ-1	2-3/4	1-3/4	2-3/4	None	5	460	5.75
GRUJ-2	2-3/4	1-3/4	2-3/4	4-3/4	5	450	6.10
GRUJ-3	2-3/4	1-3/4	2-3/4	4-1	5	415	6.65

GRJ JUNCTION UNILETS



Size Hub, In.	Cat. No. GRJC	Cat. No. GRJEA	Cat. No. GRJL	Cat. No. GRJN	Wt.-Lbs. Per 100	List Price		
1/2	GRJC50	GRJEA50	GRJL50	GRJN50	153-160	\$3.30		
3/4	GRJC75	GRJEA75	GRJL75	GRJN75	144-150	3.50		
Size Hub, In.	Cat. No.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	GRJT50	GRJCA50	173-178	\$3.50	GRJTA50	GRJX50	180-192	\$3.70
3/4	GRJT75	GRJCA75	160-175	3.80	GRJTA75	GRJX75	180-200	4.10
Size Hub, In.	Cat. No.	Wt.-Lbs. Per 100	List Price	Size Hub, In.	Cat. No.	Wt.-Lbs. Per 100	List Price	
1/2	GRJXA75	216	\$3.90	3/4	GRJXA50	188	\$4.40	

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26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF JUNCTION UNILETS



GRJ COVERS		Cat. No.	Description	Std. Pkg.	Wt./100	List Price
GRJK-S	GRJK-S		Surface Cover	5	45	\$1.40
GRJK-SC	GRJK-SC		Sealed Cover	5	70	1.70
GRJK-DC	GRJK-DC		Dome Cover*			

GRJS UNIVERSAL JUNCTION UNILETS



Cat. No.	Size Hub, In.	Cover Open Diam., In.	Std. Pkg.—5.	Wt.-Lbs. Per 100	List Price
GRJS50	1/2	2 9/16	5	255	\$3.80
GRJS75	3/4	2 9/16	5	250	3.80
GRJS100	1	2 9/16	5	234	3.80

COVERS FOR GRJS UNIVERSAL JUNCTION UNILETS*



GRJSK SEALING		Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
GRJSK	GRJSK		Surface Cover	5	30	\$1.40
GRJSK-SC	GRJSK-SC		Sealing	5	38	1.80
GRJSK-SO	GRJSK-SO		1/2" Hub	5	70	2.75

CPS JUNCTION UNILETS With Blank Cover and Mounting Lugs
Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Groups C and D; Class II, Groups E, F and G; Class III; Malleable Iron — Cadmium Finish

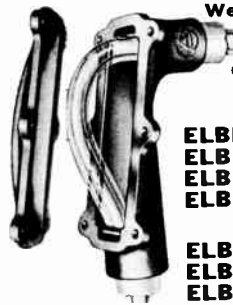


Size Hub In.	Cover Open. Diam. In.	Cat. No. L	Cat. No. C	Std. Pkg.	Wt./100	List Price	
1/2	3	Form 5-10		5	300	\$3.90	
3/4	3	CPSL5-50	CPSC5-50	5	290	4.10	
1	3	CPSL5-75	CPSC5-75	5	300	4.30	
		CPSL5-100	CPSC5-100	5			
		Form 20		5	450	6.20	
1/2	4	CPSL20-50	CPSC20-50	5	450	6.50	
3/4	4	CPSL20-75	CPSC20-75	5	465	6.70	
1	4	CPSL20-100	CPSC20-100	5			
		E Form 5-10 X T Form 5-10					
1/2	3	CPSE5-50	275 \$3.70	CPSX5-50	325 \$4.30	CPST5-50	310 \$4.10
3/4	3	CPSE5-75	250 3.80	CPSX5-75	310 4.70	CPST5-75	298 4.40
1	3	CPSE5-100	275 3.90	CPSX5-100	342 5.20	CPST5-100	325 4.70
		Form 20					
1/2	4	CPSE20-50	440 6.00	CPSX20-50	475 6.70	CPST20-50	490 6.50
3/4	4	CPSE20-75	440 6.10	CPSX20-75	475 7.10	CPST20-75	475 6.80
1	4	CPSE20-100	467 6.20	CPSX20-100	515 7.50	CPST20-100	475 7.10

CPS HUB COVER

Cat. No.	Description	Std. Pkg.	Wt. 100	List Price
CPSK5-50	1/2" Hub Form 5	5	115	\$1.80
CPSK5-75	3/4" Hub 5-10	5	120	1.90
CPSK20-50	1/2" Hub Form 5	5	190	2.60
CPSK20-75	3/4" Hub 20	5	200	2.70

ELBD 90° PULLING UNILETS With Wire-Pulling Rollers
Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant—Raintight Class I, Group D; Class II, Groups E, F and G; Class III



Cat. No.	Size Hub In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Less Roller				
ELBD-100	1	5	700	\$17.00
ELBD-125	1 1/4	5	700	17.60
ELBD-150	1 1/2	5	1300	26.00
ELBD-200	2	5	1300	27.00
With Roller				
ELBD-250	2 1/2	1	3350	\$56.00
ELBD-300	3	1	3375	57.00
ELBD-350	3 1/2	1	9900	93.00
ELBD-400	4	1	9900	98.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

DER AND GUB JUNCTION UNILETS WITH SURFACE COVER
Explosion-Proof, Dust-Ignition-Proof, and Weather Resistant—Raintight Class I, Group D; Class II, Groups E, F and G, and Class III



Cat. No.	Size	Cover Opening	Form No.
DER-1	4 7/8" x 4 7/8" x 4"	3 7/8"	1
GUB-1	6 1/2" x 7" x 6 1/4"	5 3/8"	1
GUB-2	8" x 10" x 7 3/4"	7 3/16"	2
GUB-3	12" x 12" x 7 7/8"	9 13/16"	3
GUB-4	17 1/2" x 17 1/2" x 11 1/8"	16 1/4"	4

Prices on Application

Max. Size and No. of Hubs Supplied on Any 1 Side

Cat. No.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/4"	3"	3 1/4"	4"
Threaded Hubs										
DER-1	4	3	3	2	2	1	..	..	..	..
GUB-1	4	4	3	3	2	2	1	..	..	..
GUB-2	4	4	3	3	3	2	2	2	1	..
GUB-3	4	4	4	4	3	3	2	2	2	2
GUB-4	7	7	7	6	5	4	3	3	2	2
Union Hubs										
DER-1	2	2	2	1	1	..	..	..	..	..
GUB-1	3	3	3	2	2	1	1	..	..	..
GUB-2	4	4	3	3	2	2	2	1	1	..
GUB-3	4	4	4	4	3	3	2	2	2	1
GUB-4	7	7	7	6	5	4	3	3	2	2

GUBD UNILETS With Dome Cover and Mounting Plate

Class I, Group D; Class II, Groups E, F and G; Class III



Cat. No.	Cover Dpth. In.	Mtg. Lugs	Wdth. Mtg. Plate, In.	List Price
GUBD-1-10	10	2	3 13/16	\$49.00
GUBD-2-6	6	2	5 1/8	67.00
GUBD-2-12	12	2	5 1/8	76.00
GUBD-3-6	6	4	6 1/2	124.00
GUBD-3-12	12	4	6 1/2	136.00
GUBD-3-17	17	4	6 1/2	146.00
GUBD-4-13	13	4	12 5/8	285.00

DER AND GUB—JUNCTION UNILET COVERS



Cat. No.	Type Unilet	Dpth. In.	I.D. In.	Wt.-Lbs. Per 100	List Price
Surface Covers					
GRK-2	DER-1	..	3 3/16	75	\$2.30
GUBK-1	GUB-1	..	4 5/8	150	6.80
GUBK-2	GUB-2	..	6 1/4	325	13.70
GUBK-3	GUB-3	..	8 7/8	625	19.60
GUBK-4	GUB-4	..	14	800	45.00
Flush Covers					
GRK-2F	DER-1	..	3 1/2	140	2.30
Sealing Covers					
GRK-2SC	DER-1	..	3 9/16	176	2.70
GUBK-1SC	GUB-1	..	4 3/8	..	7.50
Dome Covers					
GUBK-1-10	GUB-1	10"	4	600	19.20
GUBK-2-6	GUB-2	6"	6	650	24.00
GUBK-2-12	GUB-2	12"	5 3/8	950	33.40
GUBK-3-6	GUB-3	6"	8 1/4	1200	27.20
GUBK-3-12	GUB-3	12"	8	1800	38.30
GUBK-3-17	GUB-3	17"	7 3/4	2325	47.20
GUBK-4-13	GUB-4	13"	10 3/8	1200	90.00

GUBM INSTRUMENT UNILETS

Class I, Group D; Class II, Groups E, F and G; Class III



Cat. No.	Type Unilet	Size Hub, In.	Cover Open. Diam., In.	Mtg. Lugs	List Price
GUBM-2	GUB-2	3/4	7 3/16	2	\$ 68.00
GUBM-3	GUB-3	3/4	9 13/16	4	144.00
GUBM-1	GUB-1	3/4	5 3/8	2	38.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

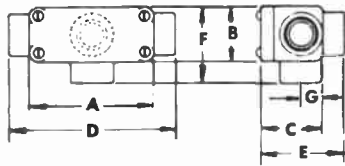
APPLETON EXPLOSION-PROOF UNILETS

ER AND EM JUNCTION UNILETS WITH BLANK COVER
Class I, Group D; Class II, Groups E, F, G, and Class III

Furnished with Cover
Std. Pkg. 5



EM UNILETS



EM-MOGUL UNILETS

HUB SIZE	A	B	C	D	E	F	G
1/2 and 3/4	5 1/2	2 5/8	2	6 3/4	2 5/8	3 7/8	2 5/32



ER UNILETS

ER-UNILETS

Hub Size	A	B	C	D	E	F	G
1/2	3 11/16	1 1/2	1 13/16	5	2 7/16	2 1/8	9/16
3/4	4	1 3/4	2	5 1/16	2 11/16	2 7/16	1 1/16



C



LB



LL



LR



T



TB

Size	Mogul Cat. No.	Mogul Cat. No.	Wt./100	List Price	Mogul Cat. No.	Mogul Cat. No.	Wt./100	List Price
1/2	EMC50	EMLB50	425	\$4.20	EMX50	EMTB50	430	\$4.45
3/4	EMC75	EMLB75	405	4.55	EMX75	EMTB75	420	4.70
1/2	EMLL50	410	4.30	EMLR50	EMT50	430	4.45	
3/4	EMLL75	408	4.55	EMLR75	EMT75	420	4.70	

Cat. No. ERC	Cat. No. ERLB	Cat. No. ERLB50	Cat. No. ERLB75	Cat. No. ERL50	Cat. No. ERL75	Size Hub, In.	Wt.-Lbs. Per 100	List Price
ERC50	ERLB50	ERLL50	ERLR50	ERLB50	ERLR50	1/2	158	\$3.20
ERC75	ERLB75	ERLL75	ERLR75	ERLB75	ERLR75	3/4	200	3.70
ERT50	ERTB50	1/2"	Std. 5	ERT50	ERTB50	1/2	175	3.40
ERT75	ERTB75	3/4"	Pkg.	ERT75	ERTB75	3/4	210	4.00



CESD

APPLETON PLUGS AND RECEPTACLES
CESD-CES SLIDE-LOK PLUGS AND RECEPTACLES
Class I, Groups C and D 30 and 60 Amperes

Explosion-Proof—Delayed Action

Aluminum plugs and receptacle housings. Malleable iron, cadmium finish mounting unilets. CES receptacles have 1 vertical and 2 horizontal feed-thru hubs. CESD receptacles have vertical feed-thru hubs. Volts at 60 cycle AC, 480 or 125 to 250.



CES

Cat. No.	Cat. No.	Hub Size-In.	Circuit	Phase	Max. Amps.	Wt.-Lbs. Per 100	List Price
CES-3023	CESD-3023	3/4	2W-3P	1	7-30	625	\$52.00
CES-3034	CESD-3034	3/4	3W-4P	3	7-30	625	56.00
CES-6023	CESD-6023	1 1/4	2W-3P	1	30-60	2025	65.00
CES-6034	CESD-6034	1 1/4	3W-4P	3	30-60	2025	73.00

CPH Plugs

Cat. No.	Cable Diam.	Circuit	Phase	Max. Amps.	Wt. 100	List Price
CPH-3023A	.437-.750	2W-3P	1	7-30	125	\$28.00
CPH-3023B	.750-1.000	2W-3P	1	7-30	125	28.00
CPH-3034A	.437-.750	3W-4P	3	7-30	125	29.00
CPH-3034B	.750-1.000	3W-4P	3	7-30	125	29.00
CPH-6023A	.500-.750	2W-3P	1	30-60	300	32.00
CPH-6023B	.750-1.000	2W-3P	1	30-60	300	32.00
CPH-6023C	1.000-1.375	2W-3P	1	30-60	300	32.00
CPH-6034A	.500-.750	3W-4P	3	30-60	500	35.00
CPH-6034B	.750-1.000	3W-4P	3	30-60	500	35.00
CPH-6034C	1.000-1.375	3W-4P	3	30-60	500	35.00

U. S. Pat. No. 3,125,394. Std. Pkg. 1

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

"U-LINE" PLUGS AND RECEPTACLES

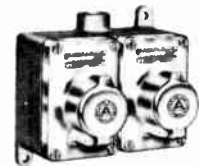
20-Ampere—Explosion-Proof. Dead Front Class I, Groups B, C and D (Nema 7BCD) Grounded Through Extra Pole
"U-Line" Receptacles with 3-Wire, 3-Pole EFS Mounting Unilet
20A, 125V, AC, 1 HP 125V, AC, 10A, 125V, AC "L"



EFSB Single Gang



EFSC Single Gang



EFS Two Gang

Cat. No.	Description	Groups	Hub Size, In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
Single Gang						
EFSB150-2023	Dead end	B,C,D	1/2	1	425	\$32.60
EFSB175-2023	Dead end	B,C,D	3/4	1	425	32.70
EFSCB150-2023	Feed thru	B,C,D	1/2	1	450	32.80
EFSCB175-2023	Feed thru	B,C,D	3/4	1	450	33.00
EFS150-2023	Dead end	C,D	1/2	1	325	26.40
EFS175-2023	Dead end	C,D	3/4	1	325	26.50
EFS110-2023	Dead end	C,D	1	1	325	26.70
EFSC150-2023	Feed thru	C,D	1/2	1	350	26.60
EFSC175-2023	Feed thru	C,D	3/4	1	350	26.80
EFSC110-2023	Feed thru	C,D	1	1	350	27.20
Two Gang						
EFS250-2023	Dead end	C,D	1/2	1	700	52.80
EFS275-2023	Dead end	C,D	3/4	1	700	52.90
EFS210-2023	Dead end	C,D	1	1	700	53.10
EFSC250-2023	Feed thru	C,D	1/2	1	725	53.00
EFSC275-2023	Feed thru	C,D	3/4	1	725	53.20
EFSC210-2023	Feed thru	C,D	1	1	725	53.60



15 Amp.

"U-LINE" WATERTIGHT PLUGS

Class I, Groups B, C and D—2-Wire, 3 Pole
Also for Use with Std. U Ground Receptacles
In Non-Hazardous Areas



20 Amp.

Cat. No.	Amperes	Cable Diam.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
ECP-1523	15	.312 to .625	5	25	\$9.90
ECP-2023	20	.312 to .625	5	25	9.90

Shaded area indicates items listed for Class 1, Group B (Hydrogen) in addition to Class 1, Groups C and D.
†Patent applied for.

"U-LINE" ACCESSORIES

20-Ampere—Explosion-Proof, Dead Front
Class I, Groups B, C and D (NEMA 7BCD)
Grounded Through Extra Pole



Cat. No.	Description	Wt.-Lbs. Per 100	List Price
EFSR-IKF	Aluminum dress-up cover plate for recessed installation. Silver satin finish. Fasteners furnished. 4 1/4" wide, 5 3/8" high, 3/8" deep.	29	\$3.20



Cat. No.	Description	Wt.-Lbs. Per 100	List Price
ECP-WC	Rubber protective cap for "U-Line" EPC Plug. Pat. applied for. 1 1/2" I.D., 1" long.	12	.95



FSQX3023-75

FSQX PLUGS AND RECEPTACLES

30 Amperes—with Interlocked Switch
Explosion-Proof, Dust-Ignition-Proof and
Weather-Resistant—Raintight
Class I, Group D; Class II, Group G; Class III
Grounded Through Extra Pole and Shell



FP-3023

Circuit	Cat. No.	Hub Size	Wt.-Lbs. Per 100	List Price	Cat. No.	Cable Diam.	Wt.-Lbs. Per 100	List Price
2 wire-3 pole	FSQX3023-75*	3/4"	1050	\$51.00	FP-3023	.500-.875	138	\$15.00
2 wire-3 pole	FSQX3023-100*	1"	1150	51.50	FP-3034	.500-.875	138	17.00
3 wire-4 pole	FSQX3034-75†	3/4"	1075	58.00				
3 wire-4 pole	FSQX3034-100†	1"	1150	58.50				

*30A-250V AC or DC, 20A-600V AC; or 2 HP, 250-575V AC. Std. Pkg. 1
†30A-250V AC or DC; 20A-600V AC; or 2 HP, 115-575V AC.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

CPS PLUGS AND RECEPTACLES†

Explosion-Proof—Dead End Class I, Groups C and D
20A-24V DC; 1 HP, 115-230V, 60 Cycle AC



Receptacle Cat. No.	Hub Size	Circuit	List Price	Plug Cat. No.	Cable Diam.	List Price
CPSA-2350	1/2"	2W-3P	\$28.30	CPP-2023A	.250-.375	\$13.00
CPSA-2375	3/4"	2W-3P	28.60	CPP-2023B	.375-.500	13.00
Std. Pkg. 1 360 lbs. per 100.						

CPS RECEPTACLES—STRAIGHT WALL MOUNT
CLASS I GROUPS C AND D



Cat. No.	Size	Wt.-Lbs. Per 100	List Price
CPSC-2350	1/2"	360	\$28.90
CPSC-2375	3/4"	360	29.10
CPSE-2350	1/2"	340	28.60
CPSE-2375	3/4"	335	28.70
CPSL-2350	1/2"	350	28.90
CPSL-2375	3/4"	350	29.10
CPST-2350	1/2"	310	29.10
CPST-2375	3/4"	360	29.40
CPSX-2350	1/2"	400	29.30
CPSX-2375	3/4"	400	29.70
Std. Pkg. 5			

CPS PLUGS AND RECEPTACLES

Explosion-Proof—Dead End Class I, Groups C and D
CPS Receptacles—2 Wire, 3 Pole
With EFD Mounting Unilet
20A-24V DC; 1 HP;
115-230V, 60 Cycle AC



CPE1-2350 1-GANG			CPE2-2350 2-GANG			Hub Size
Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	
Dead End						
CPE1-2350	500	\$28.60	CPE2-2350	650	\$57.20	1/2"
CPE1-2375	500	28.70	CPE2-2375	650	57.30	3/4"
CPE1-23100	500	28.90	CPE2-23100	650	57.50	1"
Feed Thru						
CPC1-2350	520	28.80	CPC2-2350	650	57.40	1/2"
CPC1-2375	520	29.00	CPC2-2375	650	57.60	3/4"
CPC1-23100	620	29.40	CPC2-23100	650	58.00	1"

**Tumbler Switch Combination CPS Receptacles—2 Wire, 3 Pole
Class I, Groups C & D With EFD Mounting Unilet**

1 POLE SWITCH
20A, 125V or
10A, 250V AC

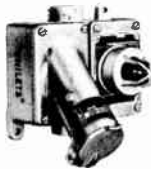
2 POLE SWITCH
20A, 250V or
2 HP, AC



Cat. No.	Wt.-Lbs. Per 100	List Price	Hub Size	Cat. No.	Wt.-Lbs. Per 100	List Price	Hub Size
Dead End							
CPE2-2350F1	900	\$42.90	1/2"	CPE2-2350F2	900	\$43.50	1/2"
CPE2-2375F1	900	43.00	3/4"	CPE2-2375F2	950	43.60	3/4"
CPE2-23100F1	900	43.20	1"	CPE2-23100F2	900	43.80	1"
Feed Thru							
CPC2-2350F1	975	43.10	1/2"	CPC2-2350F2	975	43.70	1/2"
CPC2-2375F1	975	43.30	3/4"	CPC2-2375F2	975	43.90	3/4"
CPC2-23100F1	975	43.70	1"	CPC2-23100F2	975	44.30	1"

CPS PLUGS AND RECEPTACLES

Pilot Light Combination* With EFD Mounting Unilet and Red Jewel
Class I Groups C & D



Cat. No.	Hub Size	Std. Pkg.	Wt.-Lbs. Per 100	List Price
CPC2-2350P	1/2"	1	975	\$47.90
CPC2-2375P	3/4"	1	950	48.10
CPC2-23100P	1"	1	950	48.50

NOTE: For Dead-End Unilets, change "CPC" to "CPE."
U. S. Pat. No. 1,995,195. Available colors.

CPC2-2350P
Feed Thru



CPS PLUGS FOR RECEPTACLES ABOVE

Class I, Groups C and D 20A-24V DC; 1 HP, 115-230V, 60 Cycle AC 2 Wire, 3 Pole	Cat. No.	Cable Diam.	Wt.-Lbs. Per 100	List Price
	CPP-2023A	.250-.375	53	\$13.00
	CPP-2023B	.375-.500	53	13.00
	CPP-2023C	.500-.625	53	13.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

**APPLETON DUST-IGNITION-PROOF
RECEPTACLES**

DTQ RECEPTACLES†

20A-440V AC, 60 Cycle; 1 HP, 115-230V AC,
Class II, Group G; Class III



Cat. No.	Hub Size	Circuit	Std. Wt.-Lbs. Pkg. Per 100	Price
Style 1—Grounded Through Shell				
DTQ2022-50	1/2"	2 wire, 2 pole	1 360	\$23.20
DTQ2022-75	3/4"	2 wire, 2 pole	1 350	23.40
DTQ2033-50	1/2"	3 wire, 3 pole	1 360	24.15
DTQ2033-75	3/4"	3 wire, 3 pole	1 355	24.35
DTQ2033-100	1"	3 wire, 3 pole	1 350	24.55
Style 2—Grounded Through Extra Pole				
DTQ2022-50	1/2"	2 wire, 3 pole	1 365	26.80
DTQ2023-75	3/4"	2 wire, 3 pole	1 360	27.00

†U. S. Pat. No. 1,995,195.

DTP PLUGS FOR USE WITH RECEPTACLES ABOVE

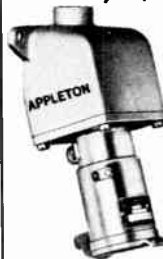
Use with Style 1 Receptacles above.



Cat. No.	Cable Dia.	Circuit	List Price	
DTP2022A	.250 to .375	2 Wire, 2 Pole	\$11.00	
DTP2022B	.375 to .500		11.00	
DTP2022C	.500 to .625		11.00	
DTP2033B	.375 to .500	3 Wire, 3 Pole	11.60	
DTP2033C	.500 to .625		11.60	
DTP2033D	.625 to .750		11.60	
Use with Style 2 Receptacles above.				
Std. Pkg. 1 Wt./100 55 lbs.	DTP2023C	.500 to .625	2 Wire, 3 Pole	\$13.45

DTQ 30 AMPERE SPRING COVER RECEPTACLES†

Dust-Ignition-Proof, Class II, Group G, and Class III—440V AC,
60 Cycle; 3 HP 115-230V AC—Complete with Mounting Unilet



Cat. No.	Hub Size	Circuit	Std. Wt.-Lbs. Pkg. Per 100	List Price
Style 1—Grounded Through Shell				
DTQ3033-100	1"	3 wire, 3 pole	1 775	30.90
DTQ3033-125	1 1/4"	3 wire, 3 pole	1 875	31.10
DTQ3044-100	1"	4 wire, 4 pole	1 825	34.70
DTQ3044-125	1 1/4"	4 wire, 4 pole	1 850	34.90
Style 2—Grounded Through Extra Pole				
DTQ3023-75	3/4"	2 wire, 3 pole	1 875	33.50
DTQ3023-100	1"	2 wire, 3 pole	1 850	33.70
DTQ3034-100	1"	3 wire, 4 pole	1 825	36.00
DTQ3034-125	1 1/4"	3 wire, 4 pole	1 900	36.20

U. S. Pat. No. 1,995,195.

DTP PLUGS FOR USE WITH DTP 30 AMPERE RECEPTACLES



Cat. No.	Cable Diam.	Circuit	Wt.-Lbs. Per 100	List Price
Style 1—Grounded Through Shell				
DTP3033CD	.500 to .750	3-wire, 3-pole	100	\$13.60
DTP3033EF	.750 to 1.000	3-wire, 3-pole	100	13.60
DTP3044CD	.500 to .750	4-wire, 4-pole	100	15.20
DTP3044EF	.750 to 1.000	4-wire, 4-pole	100	15.20
Style 2—Grounded Through Extra Pole				
DTP3023CD	.500 to .750	2-wire, 3-pole	100	15.60
DTP3023EF	.750 to 1.000	2-wire, 3-pole	100	15.60
DTP3034CD	.500 to .750	3-wire, 4-pole	100	17.20
DTP3034EF	.750 to 1.000	3-wire, 4-pole	100	17.20

U. S. Pat. No. 1,995,195. 60 Amp. Dust-Ignition Proof Series also available

TUMBLER SWITCH UNILETS

Class I, Groups C & D (NEMA 7CD); Class II,
Groups E, F & G; Class III NEMA 3, 5, 9EFG

Malleable iron. Cadmium finish. Furnished with tumbler switches, operating handle and mounting lugs.



2 GANG				SINGLE GANG				Hub Size	
Cat. No.	Amps. 250V	Wt. 100	Price	Cat. No.	Amps. 250V	Wt. 100	List Price	Switch 125V	In.
EFSC250-F1	20	875	\$27.20	EFSC150-F1	10	475	\$13.70	1-pole	20T 1/2
EFSC250-F2	20	900	28.20	EFSC150-F2	20	475	14.30	2-pole	20T 1/2
EFSC250-F3W	20	900	28.80	EFSC150-F3W	10	500	14.60	3-way	20T 1/2
EFSC250-F4W	5	875	46.40	EFSC150-F4W	5	475	23.40	4-way	10T 1/2
EFSC275-F1	20	850	27.40	EFSC175-F1	20	450	13.90	1-pole	20T 3/4
EFSC275-F13	30	850	33.40	EFSC175-F13	30	475	16.90	1-pole	30 3/4
EFSC275-F2	20	900	28.60	EFSC175-F2	20	500	14.50	2-pole	20T 3/4
EFSC275-F23	30	850	37.80	EFSC175-F23	30	425	19.10	2-pole	30 3/4
EFSC275-F3W	10	875	29.20	EFSC175-F3W	10	475	14.80	3-way	20T 3/4
EFSC275-F4W	5	875	46.80	EFSC175-F4W	5	475	23.60	4-way	10T 3/4

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF SWITCHES

PUSH BUTTON STATION UNILETS

Class I, Groups C & D (NEMA 7CD); Class II, Groups E, F & G;
Class III (NEMA 5, 9EFG)



Malleable iron. Cadmium finish. Locking device can be added to any of the above unilets. Furnished with momentary contact switch, 5 amps., 600 volts AC maximum. Feed-thru listed—Dead End available. Remove letter "C" from Cat. No.



EFSC Single Gang

Plate Marking	Cat. No.	Hub Size-In.	Wt.-Lbs. Per 100	List Price	EFSC Two Gang	Cat. No.	Wt.-Lbs. Per 100	List Price
1 Circuit: Open								
Start	EFSC150-MO	1/2	525	\$17.70	EFSC250-MO	950	950	\$35.20
Start	EFSC175-MO	3/4	525	17.90	EFSC275-MO	950	950	35.40
1 Circuit: Closed								
Stop	EFSC150-MC	1/2	525	17.70	EFSC250-MC	950	950	35.00
Stop	EFSC175-MC	3/4	525	17.90	EFSC275-MC	950	950	35.40
2 Circuits: 1 Open, 1 Closed								
Start/Stop	EFSC150-MOC	1/2	550	20.70	EFSC250-MOC	950	950	41.20
Start/Stop	EFSC175-MOC	3/4	600	20.90	EFSC275-MOC	950	950	41.40
2 Circuits: Open								
Start/Stop	EFSC150-MOO	1/2	550	20.70	EFSC250-MOO	950	950	41.20
Start/Stop	EFSC175-MOO	3/4	550	20.90	EFSC275-MOO	950	950	41.40
2 Circuits: Closed								
Stop/Stop	EFSC150-MCC	1/2	550	20.70	EFSC250-MCC	950	950	41.20
Stop/Stop	EFSC175-MCC	3/4	550	20.90	EFSC275-MCC	950	950	41.40
1 Circuit: Universal								
Specify	EFSC150-MU	1/2	550	18.70	EFSC250-MU	950	950	37.20
Specify	EFSC175-MU	3/4	550	18.90	EFSC275-MU	950	950	37.40
2 Circuits: Universal								
Specify	EFSC150-MU2	1/2	550	22.70	EFSC250-MU2	950	950	45.20
Specify	EFSC175-MU2	3/4	550	22.90	EFSC275-MU2	950	950	45.40

OAC SWITCH UNILETS

With Momentary Contact Switch, 10 A, 600V Max.: Class I, Groups B, C and D; Class II, Groups E, F, G; and Class III.



Cat. No.	Size In.	Normal Positions	Handle Marking	List Price
OAC100-MU	1	1 Circuit	Must be Specified (See Above)	\$38.00
OAC125-MU	1 1/4	Universal		39.10
OAC100-MU2	1	2 Circuits	Must be Specified (See Above)	41.00
OAC125-MU2	1 1/4	Universal		42.10
OAC100-MOC	1	2 Circuits	START	40.00
OAC125-MOC	1 1/4	1 Open—A 1 Closed—B	STOP	41.10

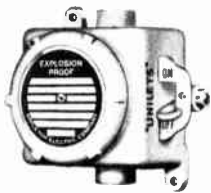
STD. PKG.—1

WT./100-900

ADDITIONAL SERIES AVAILABLE

GUSC TUMBLER SWITCH UNILETS

Explosion-Proof, Dust-Ignition-Proof, Weather-Resistant—Raintight
Class I, Group D (NEMA Type 7CD);
Class II, Groups E, F, G;
Class III (NEMA 3, 5, 9 EFG)



Malleable iron. Cadmium finish. Provided with threaded feed-through conduit hubs and mounting lugs. Ideal for use in hazardous areas where a heavy duty tumbler switch is required.

Cat. No.	Hub Size-In.	Switch	Rating	Wt.-Lbs. Per 100	List Price
GUSC75-1	3/4	1-pole	30A-250V	650	\$20.50
GUSC75-2	3/4	2-pole	30A-250V; 2HP, 115-230V, AC, 1HP, 460V, AC	650	23.00
GUSC75-3	3/4	3-pole	30A-250V; 20A-600V, AC; 2HP, 115-575V AC	650	30.00
GUSC75-4	3/4	4-pole	30A-250V; 20A-600V, AC; 2HP, 230-575V, AC; 1HP, 460V AC	700	47.00
GUSC75-3W	3/4	3-way	30A-250V	700	33.50

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF SWITCHES

TUMBLER SWITCH UNILETS—ROCKER ARM HANDLE

Explosion-Proof and Dust-Ignition-Proof—Dust-Tight
Class I, Groups C & D (NEMA 7CD);
Class II, Groups E, F & G;
Class III (NEMA 3, 5 9EFG)



EFSC Single Gang **EFS Two Gang**

Malleable iron. Cadmium finish. Complete with rocker arm handle, tumbler switch and mounting lugs.

NOTE: For single and 2-gang dead-end types, replace prefix EFSC with EFS.

Cat. No. Single Gang	Wt.-Lbs. Per 100	List Price	Cat. No. Double Gang	Wt.-Lbs. Per 100	List Price	Hub Size	Amps 125V	Amps 250V	Switch
EFSC150-R1	475	\$15.10	EFSC250-R1	975	\$30.00	1/2"	20T	20	1-pole
EFSC150-R2	500	15.40	EFSC250-R2	900	30.60	1/2"	20T	20	2-pole
EFSC150-R3W	500	15.60	EFSC250-R3W	900	31.00	1/2"	20T	20	3-way
EFSC150-R4W	500	25.40	EFSC250-R4W	900	50.60	1/2"	10T	5	4-way
EFSC175-R1	450	15.30	EFSC275-R1	900	30.20	3/4"	20T	20	1-pole
EFSC175-R2	500	15.60	EFSC275-R2	900	30.80	3/4"	20T	20	2-pole
EFSC175-R3W	500	15.80	EFSC275-R3W	900	31.20	3/4"	20T	20	3-way
EFSC175-R4W	500	25.60	EFSC275-R4W	975	50.80	3/4"	10T	5	4-way

EFS SELECTOR SWITCH UNILETS

3 Amperes, 110 Volts, or 2 Amperes, 220 Volts
Explosion-Proof, Dust-Ignition-Proof and Weather-Resistant

Malleable iron. Cadmium finish.



Cat. No.	Hub Size	Plate Marking	Wt. #100	List Price
EFSC150-SA	1/2"	Automatic-Off-Hand	500	\$18.40
EFSC175-SA	3/4"	Automatic-Off-Hand	450	18.60
EFSC150-SH	1/2"	Hoist-Off-Lower	500	18.40
EFSC175-SH	3/4"	Hoist-Off-Lower	500	18.60
EFSC150-SR	1/2"	Reverse-Off-Forward	500	18.40
EFSC175-SR	3/4"	Reverse-Off-Forward	500	18.60
EFSC150-SO	1/2"	Open-Off-Close	500	18.40
EFSC175-SO	3/4"	Open-Off-Close	500	18.60

ART CONTROL STATION UNILETS

Explosion-Proof and Dust-Ignition-Proof—Dust-Tight
Class I, Groups B*, C and D;
Class II, Groups E, F and G; Class III



Malleable iron. Cadmium finish. Furnished with momentary contact switch, 5 Amps, 600V AC maximum. Factory sealed.

Cat. No.	Hub Size-In.	Wt. 100	List Price	Cat. No.	pole way	Amps. 125V	Amps. 250V	Wt. 100	List Price
1 Open, 1 Closed									
ARTE50-MOC	1/2	700	\$26.70	ARTE50-F1	1 p.	20T	10	700	\$20.90
ARTE75-MOC	3/4	700	26.80	ARTE50-F2	2 p.	20T	20	700	21.50
1 Circuit: Universal									
ARTE50-F3W	3 w.	20T	10	700	21.80				
ARTE50-MU	1/2	700	24.70	ARTE50-F4W	4 w.	10T	5	700	29.40
ARTE75-MU	3/4	700	24.80	ARTE75-F1	1 p.	20T	10	700	21.00
2 Circuits: Universal									
ARTE50-MU2	1/2	700	28.70	ARTE75-F2	2 p.	20T	20	700	21.60
ARTE75-MU2	3/4	700	28.80	ARTE75-F3W	3 w.	20T	10	700	21.90
1 Open, 1 Closed									
ARTB50-MOC	1/2	700	26.70	ARTB50-F1	1 p.	20T	10	700	20.90
ARTB75-MOC	3/4	700	26.80	ARTB50-F2	2 p.	20T	20	700	21.50
1 Circuit: Universal									
ARTB50-F3W	3 w.	20T	10	700	21.80				
ARTB50-MU	1/2	700	24.70	ARTB50-F4W	4 w.	10T	5	700	29.40
ARTB75-MU	3/4	700	24.80	ARTB75-F1	1 p.	20T	10	700	21.00
ARTB75-MU2	3/4	700	24.80	ARTB75-F2	2 p.	20T	20	700	21.60
2 Circuits: Universal									
ARTB75-F3W	3 w.	20T	10	700	21.90				
ARTB50-MU2	1/2	700	28.70	ARTB75-F4W	4 w.	10T	5	700	29.50
ARTB75-MU2	3/4	700	28.80	ARTC50-F1	1 p.	20T	10	800	22.10
1 Open, 1 Closed									
ARTC50-MOC	1/2	1050	27.90	ARTC50-F2	2 p.	20T	20	800	22.70
ARTC75-MOC	3/4	800	28.10	ARTC50-F3W	3 w.	20T	10	800	23.00
1 Circuit: Universal									
ARTC50-F4W	4 w.	10T	5	800	30.60				
ARTC50-MU	1/2	800	25.90	ARTC75-F1	1 p.	20T	10	800	22.30
ARTC75-MU	3/4	800	26.10	ARTC75-F2	2 p.	20T	20	800	22.90
2 Circuits: Universal									
ARTC75-F3W	3 w.	20T	10	800	23.20				
ARTC50-MU2	1/2	800	29.90	ARTC75-F4W	4 w.	10T	5	800	30.80
ARTC75-MU2	3/4	800	30.10						

*NOTE: Furnished with momentary contact switch: 10 amps., 600 volts, A.C. maximum.

**NOTE: Furnished with tumbler switch.

Shaded areas indicate items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G, and Class III.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF PILOT LIGHTS

EFD COMBINATION TWO-GANG PILOT LIGHT AND PUSH BUTTON UNILET

Class I, Groups C and D (NEMA 7CD); Class II, Groups E, F and G; Class III



EFD275-PMO

Malleable iron. Cadmium finished. Furnished with momentary contact switch, pilot light with candelabra base lamp receptacle, 6W-115V, Type S-6 clear bulb, red jewel and guard.

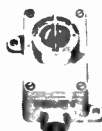


EFOC275-PMO

Hub Size	Cat. No.	Wt.-Lbs. Per 100	List Price	Hub Size	Cat. No.	Wt.-Lbs. Per 100	List Price	
3/8"	EFD275-PMO	900	\$37.50	1 1/2"	EFOC275-PMO	1000	\$37.80	1 Circuit: Open
1"	EFD210-PMO	900	\$37.70	3/4"	EFOC210-PMO	1000	\$38.20	1 Circuit: Closed
3/8"	EFD275-PMC	900	\$7.50	1 1/2"	EFOC275-PMC	1000	\$7.80	2 Circuits: Open-Closed
1"	EFD210-PMC	900	\$7.70	3/4"	EFOC210-PMC	1000	\$8.20	2 Circuits: Open
3/8"	EFO275-PMOC	900	\$9.70	1 1/2"	EFOC275-PMOC	1000	\$10.00	2 Circuits: Closed
1"	EFD210-PMOC	900	\$10.00	3/4"	EFOC210-PMOC	1000	\$10.40	2 Circuits: Universal
3/8"	EFD275-PMOO	900	\$9.70	1 1/2"	EFOC275-PMOO	1000	\$10.00	
1"	EFD210-PMOO	900	\$10.00	3/4"	EFOC210-PMOO	1000	\$10.40	
3/8"	EFD275-PMCC	900	\$9.70	1 1/2"	EFOC275-PMCC	1000	\$10.00	
1"	EFD210-PMCC	900	\$10.00	3/4"	EFOC210-PMCC	1000	\$10.40	
3/8"	EFD275-PMU2	900	\$41.70	1 1/2"	EFOC275-PMU2	1000	\$42.00	
1"	EFD210-PMU2	900	\$42.40	3/4"	EFOC210-PMU2	1000	\$42.40	

EFD PILOT LIGHT UNILETS

Class I, Group D; Class II, Group G; Class I, Groups C and D (NEMA 7CD); Class II, Groups E, F and G; Class III NEMA 3, 5, 9EFG



EFO250-P

Malleable iron. Cadmium finish. Furnished with candelabra base lamp receptacle, 6W-115V, Type S-6 clear bulb, red jewel and guard.

NOTE: Flanged models also available.



EFO150-P

Size	Description	Cat. No. SINGLE GANG	Wt.-Lbs. Per 100	List Price	Cat. No. TWO-GANG	Wt.-Lbs. Per 100	List Price
1/2"	Single Light	EFD150-P	550	\$19.10	EFD250-P	800	\$38.20
3/4"	Single Light	EFD175-P	525	19.20	EFD275-P	900	\$38.30
1/2"	Double Light	EFD150-P2	560	28.20	EFD250-P2	920	56.40
3/4"	Double Light	EFD175-P2	560	28.30	EFD275-P2	920	56.50

EFOC PILOT LIGHT UNILETS

Class I, Groups C and D (NEMA 7CD); Class II, Groups E, F and G; Class III (NEMA 3, 5, 9EFG)



EFOC150-P2

Malleable iron. Cadmium finish. Furnished with candelabra base lamp receptacle, 6W-115V. Type S-6 clear bulb, red jewel and guard.

Size	Description	Cat. No. SINGLE GANG	Wt.-Lbs. Per 100	List Price	Cat. No. TWO-GANG	Wt.-Lbs. Per 100	List Price
1/2"	Single Light	EFOC150-P	525	\$19.30	EFOC250-P	825	\$38.40
3/4"	Single Light	EFOC175-P	525	19.50	EFOC275-P	800	38.60
1/2"	Double Light	EFOC150-P2	535	28.40	EFOC250-P2	945	56.60
3/4"	Double Light	EFOC175-P2	535	28.60	EFOC275-P2	945	56.80

EHP HOSPITAL PILOT LIGHTS

Explosion-Proof Class I, Groups C and D For Flush Mounting in Operating Rooms



PILOT EPH1



PILOT & SWITCH EPH2

EHP HOSPITAL SWITCH AND PILOT LIGHTS



PILOT EPH2

Pilot Cat. No.	Size In.	Wt.-Lbs. Each	List Price	Description	Pilot Cat. No.	Size In.	Wt.-Lbs. Each	List Price
EPH1-50RE	1/2	8	\$32.40	Pilot light and unilet	EPH2-75RE	3/4	14	\$47.70

Pilot & 1-Pole Switch—10A-125V or 5A-250V

EHP5-2150RE	1/2	Pilot light switch & Unilet	12	44.00
EHP5-2175RE	3/4	Pilot light switch & Unilet	12	44.00

Pilot & 2-Pole Switch—10A-250V

EHP5-2250RE	1/2	Pilot light switch & Unilet	12	46.75
EHP5-2275RE	3/4	Pilot light switch & Unilet	12	46.75

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON HOSPITAL EQUIPMENT

EHS FACTORY SEALED HOSPITAL SWITCHES† For Flush Mounting in Hospital Operating Rooms



SINGLE Explosion-Proof Class I, Groups C and D

Polished dress-up cover complete with switch levers and shafts. Stainless steel cover. Unilet body is malleable iron, cadmium plated. Combinations of switches for the two and three gang units and momentary contact switches may be furnished on request.

U. S. Pat. No.: 2,794,891; Can. Pat. No.: 592,593.

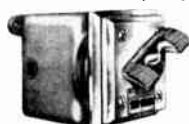
DOUBLE
Also available in Three Gang.



Cat. No.	Wt.-Lbs. Each	List Price	Cat. No.	Wt.-Lbs. Each	List Price	Hub Size	Switch	Amps 125V	Amps 250V
Single Gang			Two Gang						
EHS-1150	10	\$80.00	EHS-2175	12 1/2	\$85.00	1/2	1-pole	20	10
EHS-1175	10	80.00	ESH-21100	12 3/4	85.00	3/4	1-pole	10T	10
EHS-1250	10	80.00	EHS-2275	12 1/2	85.00	1/2	2-pole	20	10
EHS-1275	10	80.00	EHS-22100	12 3/4	85.00	3/4	2-pole	10T	10
EHS-1350	10	81.00	EHS-2375	13 1/4	86.00	1/2	3-way	15	10
EHS-1375	10	81.00	EHS-23100	13 3/4	86.00	3/4	3-way	15	10

EHSF SEALED FOOT-SWITCHES For Flush Mounting in Operating Rooms

20A-125V, AC; 10A-125V, AC "L" Class I, Groups C and D



The EHSF foot-operated switch is similar in construction to the EHS switch except that the handle on the switch can be operated in either "On" or "Off" position by use of the foot.

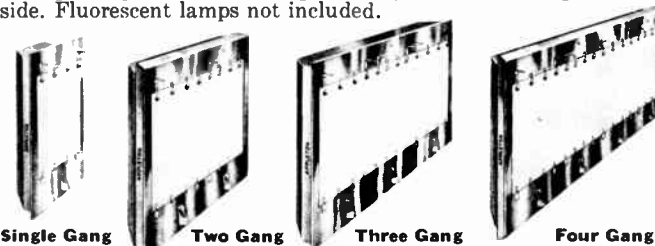
Has four 3/4" hubs and one 1" hub.

Cat. No.	Wt.-Lbs. Each	List Price	Cat. No.	Wt.-Lbs. Each	List Price	Description
EHSF-1175	11	\$80.00	EHSF-1275	11	\$80.00	Switch and unilet

EFUX X-RAY FILM ILLUMINATORS

Explosion-Proof, Class I, Groups C and D

Film illuminator covers are stainless steel with satin finish. Housing has protective coating outside, white reflecting surface inside. Fluorescent lamps not included.



Furnished with three 3/4" hub and opal plastic glass to take two 15 watt T-12 fluorescent lamps.

For Walls 6" or Greater	For 4" Walls
EFUX-1S Surface (Flush) Mounting	EFUX-1F 1 3/4" Flanged Cover
16	21
\$305.00	315.00

Furnished with two 3/4" hubs and opal plastic glass to take four 15 watt T-12 fluorescent lamps.

For Walls 6" or Greater	For 4" Walls
EFUX-2S Surface Mounting	EFUX-2F 1 3/4" Flanged Cover
40	40
625.00	625.00

Furnished with three 3/4" hubs and opal plastic glass. Takes six 15 watt T-12 fluorescent lamps.

For Walls 6" or Greater	For 4" Walls
EFUX-3S Surface (Flush) Mounting	EFUX-3F 1 3/4" Flanged Cover
61	61
915.00	915.00

Furnished with four 3/4" hubs and opal plastic glass. Takes eight 15 watt T-12 fluorescent lamps.

For Walls 6" or Greater	For 4" Walls
EFUX-4S Surface (Flush) Mounting	EFUX-4F 1 3/4" Flanged
74	74
1160.00	1160.00

DRIP TRAY FOR EFUX FILM ILLUMINATORS

Cat. No.	Descrip.	Wt.-Lbs. Each	Price	Cat. No.	Descrip.	Wt.-Lbs. Each	List Price
EFUX-1T	1-gang	1/2	\$ 6.00	EFUX-3T	3-gang	1 1/2	\$25.00
EFUX-2T	2-gang	1	11.50	EFUX-4T	4-gang	2	35.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON HOSPITAL EQUIPMENT

NXFI X-RAY FILM ILLUMINATORS—Non-Explosion-Proof

For use in non-hazardous locations. Furnished with 110-125V 60 cycle ballast and with opal plastic glass. Also available for 50 cycle service. Takes T-12 fluorescent lamps. (Not included).



Cat. No.	No. Pkg.	Description	Wt.-Lbs. Each	List Price
NXFI-1	2	Cover is stainless steel,	19	\$49.50
NXFI-2	4	satin finish. Housing is	38	100.00
NXFI-3	6	white enamel. For flush	57	150.00
NXFI-4	8	or surface mounting.	76	200.00

DRIP TRAY FOR NXFI FILM ILLUMINATORS

NXFI-IT	14" long—stainless steel	2	7.00
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EHRA-56 ADJUSTABLE RECEPTACLE & EHP-56 PLUG

Fact.-Sealed—Explosion-Prf.—For Flush Mounting in Hospital Rooms

**Class I, Groups C and D, 20 Ampere
EHRA-56 Receptacle and Mounting Unilet
20A, 125V, AC, 1 HP 125V, AC, 2-Wire, 3-Pole**



Cat. No.	Description	Wt.-Lbs. Each	List Price
EHRA-56	Receptacle and Unilet	9	\$72.20
EHRA-56K	Receptacle unit only	2	60.20
EHRA-56B	Unilet body only	7	12.20

Grounded through extra pole. Designed to accept all explosion-proof keyed plugs conforming to NFPA Bulletin 56 and National Electric Code (501-12).

WATERTIGHT PLUGS



Cable diam. .432 to .656. Furnished with potting resin and two rubber cable bushings. For Use with EHRA-56.

Cat. No.	Wt.-Lbs. Each	List Price
EHRA-56CK	1	\$68.00

EHRA CONVERSION KIT



For converting Appleton #EHR512023 (old No. 28280) and EHR522023 (old No. 28290) to NEC and NFPA-56 requirements.

Cat. No.	Wt.-Lbs. Each	List Price
EPH-56	1	\$17.00

EHR5 SWITCH RECEPTACLES

20A-125V AC; 3/4 HP-115V AC; 10A-125V AC "L"—2-Wire, 3-Pole



Unilet body has two openings on one side for 3/4", one opening in opposite side for 1", one opening in each of two other sides for 3/4", all rigid conduit. Three of the four 3/4" and the 1" openings have close-up plugs.

1-Pole Switch 2-Pole Switch

Cat. No.	Wt.-Lbs. Each	List Price	Cat. No.	Wt.-Lbs. Each	List Price
EHR5-12023	11	\$74.00	EHR5-22023	11	\$70.00

ECTS CURRENT TAP—WITH SAFETY SWITCH



20A-125V AC; 1/2 HP-115V AC; 10A-125V AC "L"

With this receptacle a single cord brings current supply to right beneath the operating table where 3 different pieces of electrical apparatus may be plugged in at one time. The three branch receptacles take standard Appleton CPL plugs. Furnished with a double pole safety switch and current supply plug.

Cat. No.	Description	Wt.-Lbs. Each	List Price
ECTS-2023	2-Wire, 3-Pole	17	\$173.40

CPL PLUGS FOR EHR RECEPTACLES ABOVE

20A-125V, AC; 3/4 HP-115V AC; 10A-125V AC "L"—2-Wire, 3-Pole



Cat. No.	Cable Diameter	Wt.-Lbs. Each	List Price
CPL-2023A	.625 to .671	7	\$13.00
CPL-2023B	.500 to .625	7	13.00
CPL-2023C	.375 to .500	8	13.00

CORD CONNECTORS



For use in Non-Hazardous Locations. For making extensions to connect to standard power outlets.



Cat. No.	Wt.-Lbs. Each	List Price	Cat. No.	Wt.-Lbs. Each	List Price
CPLC-23	6	\$16.75	CPPC-23	3/4	\$16.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON HOSPITAL EQUIPMENT

EHRA ADJUSTABLE RECEPTACLES

For Flush Mounting in Hospital Operating Rooms



Grounded through shell and extra pole. Unilet body is malleable iron, cadmium plated. Receptacle is brass, chrome plated. Form 1 Unilet body has 3 hubs, 2 of them with close-up plugs. Form 2 Unilet body has 4 hubs, 3 of them with close-up plugs. Adjustable sleeve allows for varying wall thicknesses. Unilet body has a temporary steel cover fastened to the adjustable sleeve to protect the explosion-proof ground surface. Factory sealed.

RATINGS

Form	Description	Cat. No.	Wt.-Lbs. Each	List Price
FORM 1	20A-115/230V at 60 Cycle AC, 1 HP, 1 Phase Approved for 20A at 24V DC	FORM 1 2W-3P EHRA-2023	9	\$53.50
FORM 2	30A-115/230V at 60 Cycle AC, 1 1/2 HP, 1 Phase or 7A-460V at 60 Cycle AC, 1/2 HP, 1 Phase	FORM 2 2W-3P EHRA-3023	17	\$81.00
FORM 2	30A-115/230V at 60 Cycle AC, 3 HP, 3 Phase or 15A-460V at 60 Cycle AC, 1 1/2 HP, 3 Phase	FORM 2 3W-4P EHRA-3034	17	\$86.00

EHR NON-ADJUSTABLE RECEPTACLES

Similar to the EHRA receptacle except does not have an adjustable sleeve.

RATINGS

Form	Description	Cat. No.	Wt.-Lbs. Each	List Price
FORM 1	20A-115/230V at 60 Cycle AC, 1 HP, 1 Phase Approved for 20A at 24V DC	FORM 1 2W-3P EHR-2023	9	\$51.00
FORM 2	30A-115/230V at 60 Cycle AC, 1 1/2 HP, 1 Phase or 7A-460V at 60 Cycle AC, 1/2 HP, 1 Phase	FORM 2 2W-3P EHR-3023	17	\$78.00
FORM 2	30A-115/230V at 60 Cycle AC, 3 HP, 3 Phase or 15A-460V at 60 Cycle AC, 1 1/2 HP, 3 Phase	FORM 2 3W-4P EHR-3034	17	\$83.00

EHR NON-ADJUSTABLE DUPLEX RECEPTACLES

For Flush Mounting in Operating Rooms



Grounded through shell and extra pole. Factory sealed. Form 1. 20A each 115-230V each at 60 cycle AC, 1 HP. 1 phase. 20A at 24V DC.

Cat. No.	Description	Wt.-Lbs. Each	List Price
EHRD-2023	2-wire, 3-pole each, 3/4" hubs	11	\$84.00

ECT CURRENT TAP WITH CORD CONNECTOR

20A-125V AC; 1 HP. 115-230V at 60 Cycles AC



Reduces the hazard of multiplicity of cords by bringing current supply from wall receptacle to Current Tap placed beneath operating table.

Cat. No.	Description	Wt.-Lbs. Each	List Price
ECT-2023	Complete unit, 2-wire, 3-pole	16	\$163.75

ALUMINUM CPSHC PENDANT RECEPTACLES



Cat. No.	Description	Wt.-Lbs. Each	List Price
CPSHC-50C	20A-115-230V, 60 Cycle AC, 1 HP, 1 Phase Class I, Groups C and D	Cover	\$37.50
CPSHC-50	2-wire, 3-pole	Polished	\$44.00

CPP PLUGS FOR RECEPTACLES LISTED ABOVE

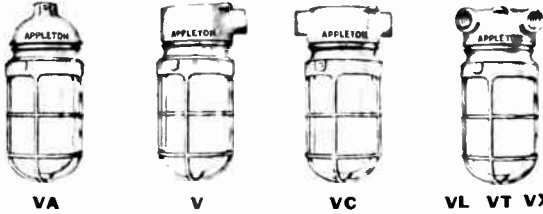
Cat. No.	Form	Cable Diam.	Description	Wt.-Lbs. Each	List Price
CPP-2023A	1	.250 to .375	2-wire, 3-pole	3/4	\$13.00
CPP-2023B	1	.375 to .500	2-wire, 3-pole	3/4	13.00
CPP-2023C	1	.500 to .625	2-wire, 3-pole	3/4	13.00
CPP-3023C	2	.500 to .625	2-wire, 3-pole	1	23.00
CPP-3023D	2	.625 to .750	2-wire, 3-pole	1	23.00
CPP-3023E	2	.750 to .875	2-wire, 3-pole	1	23.00
CPP-3034C	2	.500 to .625	3-wire, 4-pole	1	25.00
CPP-3034D	2	.625 to .750	3-wire, 4-pole	1	25.00
CPP-3034E	2	.750 to .875	3-wire, 4-pole	1	25.00

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

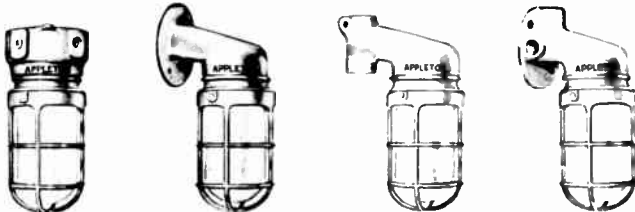
APPLETON VAPORTIGHT LIGHTING FIXTURES

V-S1 Series For Use with Threaded Rigid Conduit

Up to 100W, 150W, 200W and 300W medium base lamps. Fixtures enclosed and gasketed. Clear glass globes. Malleable Iron with cadmium finish or aluminum. Guard is cast aluminum. 6 pcs. to Std. Pkg.



Size In.	Malleable Iron			Malleable Iron				
	Cat. No.	Wt. Lbs. per 100	List Price	Cat. No.	Wt. Lbs. per 100	List Price		
1/2	VA1050G	V1050G	467	\$11.60	V2050G	VA2050G	622	\$14.35
	VC1050G	VL1050G	466	11.75	VL2050G	VC2050G	670	14.50
	VT1050G	VT2050G	480	11.95	VT2050G	VT2050G	693	14.70
	VX1050G	VX2050G	492	12.15	VX2050G	VX2050G	705	14.90
3/4	VA1075G	V1075G	467	11.70	V2075G	VA2075G	622	14.45
	VC1075G	VL1075G	466	11.85	VL2075G	VC2075G	670	14.60
	VX1075G	VX2075G	680	12.25	VX2075G	VX2075G	693	15.00
	VT1075G	VT2075G	692	12.00	VT2075G	VT2075G	705	14.75



Size In.	Cat. No.	Lbs. per 100	List Price	No Reflector Adaptable.		
				Cat. No.	List Price	
1/2	VXHA1050G	622	\$12.55	VLHA2050G	835	\$15.30
	VGA1050G	606	12.90	VGA2050G	819	15.65
	VD1050G	547	13.05	VD2050G	760	15.80
	VGAT1050G	693	13.20	VGAT2050G	906	15.95
3/4	VXHA1075G	622	12.65	VXHA2075G	835	15.40
	VGA1075G	606	13.00	VGA2075G	819	15.75
	VD1075G	547	13.20	VD2075G	760	15.95
	VGAT1075G	693	13.35	VGAT2075G	906	16.10

ALUMINUM V-S1 LIGHTING FIXTURES

Size In.	Cat. No.	Wt./100	List Price	Cat. No.		Wt./100	List Price	
				100W	150W, 200W or 300W			
1/2	VA1050G-A	V1050G-A	309	\$11.60	V2050G-A	VA2050G-A	522	\$14.35
	VC1050G-A	VL1050G-A	342	11.75	VC2050G-A	VC2050G-A	342	14.50
	VXHA1050G-A	VXHA1050G-A	392	12.55	VXHA2050G-A	VXHA2050G-A	605	15.30
3/4	VA1075G-A	V1075G-A	309	11.70	V2075G-A	VA2075G-A	522	14.45
	VC1075G-A	VL1075G-A	342	11.85	VC2075G-A	VC2075G-A	342	14.60
	VXHA1075G-A	VXHA1075G-A	392	12.65	VXHA2075G-A	VXHA2075G-A	605	15.40
	VGA1075G-A	VGA1075G-A	434	13.00	VGA2075G-A	VGA2075G-A	647	15.75

Type VGA **One tapped hole in center of mounting flange. Reflector available for 100W fixture only—30° angle reflector.
Type VD & VXHA *Two vertical feed-thru hubs with one close-up plug only. 30° angle reflector available for 100W "VB" fixtures.

FOR MOUNTING ON 3/4" OR 4" OCTAGONAL OUTLET BOXES

Cat. No.	Description	Lbs. per 100	List Price
OBV10G	Ceiling	447	\$11.85
OBVW10G	Wall	634	21.65
150W, 200W or 300W Med. Base			
OBV20G	Ceiling	660	14.60
OBVW20G	Wall	847	15.40
ALUMINUM—100 WATT			
OBV10G-A	Ceiling	395	11.85
OBVW10G-A	Wall	409	12.65
150W, 200W, or 300W Med. Base			
OBV20G-A	Ceiling	572	14.60
OBVW20G-A	Wall	622	15.40

FOR FIXTURES WITHOUT GUARD OMIT SUFFIX "G" IN CATALOG NUMBER.

10% discount for \$100.00 to \$299.99 list.
 26% discount for \$300.00 list or over.

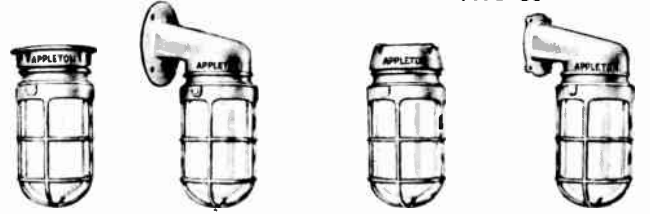
APPLETON VAPORTIGHT LIGHTING FIXTURES

V-S1 SERIES LIGHTING FIXTURES

For Use with Threaded Rigid Conduit

Up to 100W, 150W, 200W and 300W medium base lamps. Fixtures enclosed and gasketed. Clear glass globes. (For fixtures without guard omit suffix "G" in catalog number). Malleable Iron with cadmium finish or aluminum. Guard is cast aluminum. 6 pcs. to Std. Pkg.

FOR JB ROUND BASE UNILETS TYPE JB **FOR GS ROUND BASE UNILETS TYPE GS**



Cat. No.	Lbs. per 100	List Price	Cat. No.	Lbs. per 100	List Price		
						100 WATT	
JB10G	GS10G	351	\$11.85	JB20G	GS20G	351	\$14.60
JBW10G	GSW10G	501	12.65	JBW20G	GSW20G	501	15.40
	GS102G	405	12.15		GS202G	405	14.90
	GSW102G	568	13.20		GSW202G	568	15.95

ALUMINUM V-S1 LIGHTING FIXTURES

JB10G-A	Ceiling	334	\$11.85	JB20G-A	Ceiling	547	\$14.60
JBW10G-A	Wall	346	12.65	JB20W-A	Wall	609	15.40

FOR FIXTURES WITHOUT GUARD OMIT SUFFIX "G" IN CATALOG NUMBER



Size In.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
1/2	VA1050ST	\$14.15	VA1550ST	\$16.75	VA2050ST	\$17.85
	V1050ST	14.15	V1550ST	16.75	V2050ST	17.85
	VX1050ST	14.70	VX1550ST	17.30	VX2050ST	18.40
	VL1050ST	14.30	VL1550ST	16.90	VL2050ST	18.00
	VT1050ST	14.50	VT1550ST	17.10	VT2050ST	18.20
	VC1050ST	14.30	VC1550ST	16.90	VC2050ST	18.00
3/4	VA1075ST	14.25	VA1575ST	16.85	VA2075ST	17.95
	V1075ST	14.25	V1575ST	16.85	V2075ST	17.95
	VX1075ST	14.80	VX1575ST	17.40	VX2075ST	18.50
	VL1075ST	14.40	VL1575ST	17.00	VL2075ST	18.10
	VT1075ST	14.55	VT1575ST	17.15	VT2075ST	18.25
	VC1075ST	14.40	VC1575ST	17.00	VC2075ST	18.10

NOTE: Any of the above catalog numbers are available with guard by adding suffix "G". The catalog suffix "ST" listed and illustrated above is for standard dome reflectors. If deep bowl (DB) 30° angle (AN) or shallow dome (SH) reflectors are required, substitute the suffix "ST" with either "DB", "AN", or "SH". Reflector has green porcelain enamel exterior, white interior. Clear glass globe furnished.

THREADED GLOBES

100 WATT			150W, 200W or 300W			
Cat. No.	List Price	Wt./100	Cat. No.	List Price	Wt./100	
VGL-1CL	Clear	100	\$1.50	VGL-2CL	275	\$1.70
VGL-1AM	Amber	141	3.60	VGL-2AM	324	5.00
VGL-ABL	Blue	146	3.60	VGL-2BL	288	5.00
VGL-1OP	Opal	141	3.60	VGL-2OP	263	5.00
VGL-1RE	Red	141	3.60	VGL-2RE	317	5.00
VGL-1HR	Clear	137	3.60	VGL-2HR	301	5.00
VGL-1GR	Green	147	3.60	VGL-2GR	283	4.30

SHATTERPROOF PLASTIC GLOBES

Cat. No.	100W. Color	Wt./100	List Price
VPG-1CL	Clear	40	\$6.85
VPG-1BL	Blue	40	7.40
VPG-1GR	Green	40	7.40
VPG-1RE	Red	40	7.40

ALUMINUM V-S1 GUARD

Cat. No.	Wt./100	List Price	
VGU-1	100W	70	\$2.95
VGU-2	150W	133	4.10
	200W		
	300W		

Guard Not Required

U. S. Pat. Nos. 2,749,433—2,715,214—2,749,435.
 Canadian Pat. Nos. 536,644—531,655—511,696.

10% discount for \$100.00 to \$299.99 list.
 26% discount for \$300.00 list or over.

APPLETON VAPORTIGHT LIGHTING FIXTURES
V-51 SERIES REFLECTORS

Standard Dome		Deep Bowl		30° Angle*		Shallow Dome	
Watts	Diam.	Wt.-Lbs. Per 100	Cat. No. STANDARD	List Price	Cat. No. DEEP BOWL	List Price	
100W Med.	12"	250	VRE-1ST	\$5.50	VRE-1DB	\$5.50	
150W Base	14"	367	VRE-15ST	6.50	VRE-15DB	6.50	
200 or 300W	16"	400	VRE-2ST	7.60	VRE-2DB	7.60	
		30° ANGLE		SHALLOW			
100W Med.	12"	250	VRE-1AN	\$4.00	VRE-1SH	\$4.55	
150W Base	14"	367	VRE-15AN	7.05	VRE-15SH	5.50	
200 or 300W	16"	400	VRE-2AN	7.60	VRE-2SH	6.50	

FOR MALLEABLE OR ALUMINUM FIXTURES.

*Center line of fixture must be located at least 4 1/2" from wall for mounting 100W, 30° angle reflector; 5" for 150-200W, or 300W medium base 30° angle reflector.

V-51 UNITIZED GLOBE WITH GUARD

Cat. No.	Wt.	List Price
VU-100	100	\$7.85
VU-200	447	10.60

Complete with adapter, gasket, globe, socket and guard.

REFLECTOR ATTACHING RING

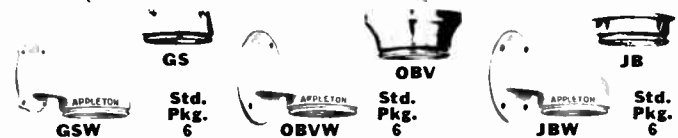
Cat. No.	Wt.	List Price
VPT-8	30	\$.65
VAD-1	91	\$3.40
VAD-2	149	4.80

V-51 VAPORTIGHT LIGHTING FIXTURE MOUNTING UNILETS
100W, 150W, 200W and 300W Med. Base Assemblies

Size In.	Cat. No.	Wt. 100	List Price	Size In.	Cat. No.	Wt. 100	List Price
1/2	V50	233	\$3.75	3/4	V75	233	\$3.85
	V50-A	109	3.75		V75-A	84	3.85
	VA50	175	3.75		VA75-A	83	3.85
	VA50-A	75	3.75		VA75	171	3.85
	VC50	233	3.90		VA75	171	3.85
	VC50-A	108	3.90		VC75	237	4.00
	VL50	242	3.90		VC75-A	108	4.00
	VT50	246	4.10		VL75	242	4.00
	VX50	258	4.30		VT75	263	4.15
					VX75	266	4.40



Size In.	Cat. No.	Wt. 100	List Price	Size In.	Cat. No.	Wt. 190	List Price	
1/2	VXHA50	380	\$4.70	3/4	VXHA75	384	\$4.80	
	VXHA50-A	158	4.70		VXHA75-A	159	4.80	
	VGA50	372	5.05		VGA75	372	5.15	
	VGAT50	313	5.20		VGAT75	308	5.35	
	VD50	459	5.35		VGAT75-A	200	5.40	
					VD75	459	5.50	



Cat. No.	Description	Wt. 100	List Price	Cat. No.	Description	Wt. 100	List Price
GS1	For ceiling	117	\$4.00	OBV1	For ceiling	213	\$4.00
GS2	For ceiling	171	4.30	OBV1-A	For ceiling	125	4.00
GSW1*	For wall	267	4.80	OBVW1*	For wall	400	4.80
GSW2*	For wall	334	5.35	OBVW1-A	For wall	175	4.80
JBW1-A	For ceiling	162	4.80	JB1	For ceiling	146	4.00
JBW1*	For wall	350	4.80	JB1-A	For ceiling	100	4.00

U.S. Pat. Nos. 2,749,433—2,715,214—2,749,435. *Mounting unilets for wall installations can Canadian Pat. Nos. 536,644—531,655—511,696. only be used with 100W, 30° angle reflectors. Cat. Nos. with "A" are Aluminum. All others Malleable Iron with Cadmium finish.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON VAPORTIGHT LIGHTING FIXTURES
VS VAPORTIGHT PENDANT AND OUTLET BOX LIGHTING FIXTURES

Enclosed and gasketed fixtures. Mounting hoods are cast iron with cadmium plated, aluminum finish. Have 3 screws for fastening reflector. Steel reflectors with double coated vitreous porcelain enamel finish, white inside and out. For pendant and 4" octagonal outlet box mountings. 300-500W is mogul, all others are med. base.

300-500W MOGUL BASE		60-300W MED. BASE				
Std. Pkg.	Size In.	Cat. No.	List Price	Cat. No.	Wt. 100	List Price
Pendant	10 1/2	VSA5050	\$7.25	VSA2050	1000	\$9.60
	5 3/4	VSA5075	5.46	VSA2075	985	9.60
Outlet Box	10	VS850	10.70	VS820	564	8.35

VS VAPORTIGHT LIGHTING FIXTURES WITH REFLECTORS



Standard Dome				Shallow Dome				
Ref. Dia.-In.	Cat. No.	Wt.# 100	List Price	Watts	Size Inches	Cat. No.	Wt.# 100	List Price
12	VSA1050ST	721	\$10.40	60-100W	1/2	VSA1550SH	746	\$11.20
12	VSA1075ST	724	10.40	60-100W	3/4	VSA1575SH	749	11.20
12	VSB10ST	742	11.50	60-100W	1/2	VSB15SH	767	12.30
14	VSA1550ST	808	11.20	150W	3/4	VSA2050SH	825	12.55
14	VSA1575ST	811	11.20	150W	1/2	VSA2075SH	828	12.55
14	VSB15ST	829	12.30	150W	3/4	VSB20SH	846	13.65
16	VSA2050ST	878	12.55	200-300W	1/2	VSA5050SH†	1560	16.30
16	VSA2075ST	881	12.55	200-300W	3/4	VSA5075SH†	1560	16.30
16	VSB20ST	909	13.65	200-300W	1/2	VSB50SH†	1050	17.40
18	VSA5050ST†	1420	17.15	300-500W	3/4			
18	VSA5075ST†	1405	17.15	300-500W	1/2			
18	VSB50ST†	1445	18.25	300-500W	3/4			

VSA PENDANT CAST IRON HOODS **VSB OUTLET BOX CAST IRON HOODS**

Cat. No.	Size In.	Wt. 100	List Price	Watts	Cat. No.	List Price
VSA2050	1/2	362	\$4.95	60-300W	VSB20	\$6.05
VSA2075	3/4	383	4.95	60-300W		
VSA5050	1/2	700	6.45	300-500W		
VSA5075	3/4	660	6.45	300-500W	VSB50	7.55

Cadmium plated with aluminum finish.

VSA AND VSB VAPORTIGHT LIGHTING FIXTURE REFLECTORS

30° Angle		Standard Dome		Shallow Dome			
Cat. No.	Wt. 100	List Price	Cat. No.	Wt. 100	List Price	Diam. In.	Watts
		\$3.15	VSR-1ST	178	\$3.15	12	100W
VSR-15AN	416	3.95	VSR-15ST	265	3.95	14	150W
VSR-2AN	240	4.65	VRS-2ST	345	5.30	16	200W
VSR-5AN	620	6.50	VSR-5SH	380	6.70	18	500W
			VSR-5ST	420	7.55		†Mogul Base

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON LIGHTING FIXTURES
GLOBES FOR VSA OR VSB VAPORTIGHT LIGHTING FIXTURES

Cat. No.	Fixture Wattage	Std. Pkg.	Wt. 100	List Price
CLEAR				
VSGL-2CL	60-300 Watt	10	181	\$2.30
VSGL-5CL	300-500 Watt	10	250	6.50
DIFFUSING				
VSGL-2D	60-300 Watt	10	325	3.15
VSGL-5D	300-500 Watt	10	311	9.20
HEAT RESISTANT—CLEAR				
60-300W MED. BASE				
VSGL-2HR	60-300 Watt	8	181	4.45
VSGL-5HR	300-500 Watt	8	328	6.35
300-500W MOGUL BASE				

VSA AND VSB WIRE GUARDS

Cat. No.	Depth In.	Diam. In.	Wt.-Lbs. Per 100	Std. Pkg.	List Price
G-1314	5	14	125	10	\$5.40
G-1316	5 1/4	16	140	10	5.80
G-1318	5 1/4	18	160	10	7.00

Electrically welded steel.

100 WATT REA FARM VAPORTIGHT LIGHTING FIXTURES

Pressure cast aluminum mounting unilet and clear glass globe. No reflectors are available for REA fixtures.

Cat. No.	Description	Wt.-Lbs. Per 100	Std. Pkg.	List Price
REA-10B	For 4" square outlet box	223	1	\$5.30
REA-10LB	Wall mounted	400	10	7.00
REA-1050	Pendant 1/2" hub	213	10	4.80

REA LIGHTING FIXTURE GUARD & PENDANT HOOD

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
REAGU-1	Steel wire guard	20	117	\$ 1.70
REA-50	1/2 Hub—Set Screw	6	200	3.30

NOTE: Appleton V-51 Vaportight Glass or Plastic Globes will fit REA Fixtures.

VHL VAPORTIGHT HANDLAMP AND GLOBES

With globe, guard and porcelain receptacle. Use with Type S or SO cable 3/8" to 1/2" diameter.

Cat. No.	Description	Standard Package	Wt.-Lbs. Per 100	List Price
VHL-100	100W. Grounded	1	350	\$16.00
2903	25-60W. Globe	20	95	2.05
2905	75-100W. Globe	20	131	2.05

APPLETON EDT INDUSTRIAL DUST-TIGHT LIGHTING FIXTURES

Dust-Ignition-Proof, Dust-Tight Weather-Resistant, Raintight, Class II, Groups E, F and G; Class III. 25 to 200 watts

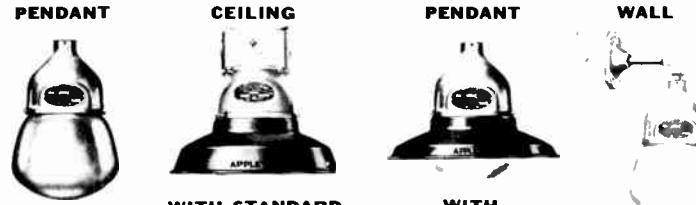
Cat. No.	Description	With Globe and Guard	With Globe Only
EDTP2050G	With globe and guard. 1/2" hub. Diameter 6 1/4". Height 9 3/4"....	\$9.20	
EDTP2050	With globe only.....		5.30

Cat. No.	Description	Fixture Wattage	Dia. In.	Wt.-Lbs. Per 100	Std. Pkg.	List Price
EDTRE-1ST	Std. Dome	25-100	12	210	10	\$4.10
EDTRE-1SST	Std. Dome	150	16	380	10	5.55
EDTRE-1SH	Shallow	25-100	12	190	10	4.10
EDTRE-1SSH	Shallow	150	16	335	10	4.25
DPGU-2	Guard	25-200	00	65	10	3.90
VSGL-2CL	Globe	25-200	00	181	10	2.30

10% discount for \$100.00 to \$299.99 list.
 26% discount for \$300.00 list or over.

APPLETON DUST-TIGHT LIGHTING FIXTURES
DT INDUSTRIAL DUST-TIGHT LIGHTING FIXTURES
 Furnished with Type "X" Unilet—100 to 500 Watt

Dust-Ignition-Proof. Dust-Tight, Weather-Resistant, Raintight, Class II, Groups E, F, G; Class III. 1 Per Std. Pkg.



Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Watts	WITH STANDARD DOME REFL.		WITH SHALLOW REFL.	
					Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
PENDANT								
DTP1050	600	\$17.20	1/2	100-	DTC1050	875	\$20.40	
DPT1075	575	17.40	3/4	150W*	DTC1075	850	20.60	
DPT2050	900	20.00	1/2	200 or	DTC2050	1100	24.20	
DPT2075	850	20.20	3/4	300W**	DTC2075	1125	24.40	
DPT5075	1325	42.70	1/2	500W	DTC5050	1500	46.90	
			3/4		DTC5075	1650	47.10	
PENDANT—STANDARD DOME REFL.					CEILING			
DTP1050ST	805	\$22.20	1/2	100-	DTC1050ST	1080	\$25.40	
DTP1075ST	780	22.40	3/4	150W*	DTC1075ST	1055	25.60	
DTP2050ST	1335	27.30	1/2	200 or	DTC2050ST	1535	31.50	
DTP2075ST	1285	27.50	3/4	300W**	DTC2075ST	1560	31.70	
DTP5075ST	2010	52.70	1/2	500W	DTC5050ST	2185	56.90	
			3/4		DTC5075ST	2335	57.10	
PENDANT—SHALLOW DOME REFL.					CEILING			
DTP1050SH	768	\$21.60	1/2	100-	DTC1050SH	1043	\$24.80	
DTP1075SH	743	21.80	3/4	150W*	DTC1075SH	1018	25.00	
DTP2050SH	1190	26.40	1/2	200 or	DTC2050SH	1390	30.60	
DTP2075SH	1140	26.60	3/4	300W**	DTC2075SH	1415	30.80	
DTP5075SH	1765	51.70	1/2	500W	DTC5050SH	1940	55.90	
			3/4		DTC5075SH	2090	56.10	

WALL TYPE WITH DUST-TIGHT UNILET WITH LUGS & CLOSE-UP PLUGS

Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Watts	Notes
DTLB1050	1125	\$28.20	1/2	100-	Take Reflector DTRE-1AN and DTRE-2AN only.
DTLB1075	1150	28.40	3/4	150W*	
DTLB2050	1625	32.00	1/2	150-200	
DTLB2075	1550	32.20	3/4	300W**	

*Approved for use with 150 Watt, A-23 Lamp.
 **Approved for use with 300 Watt, PS-30 Medium Base Lamp.
 30° Angle Reflectors may be used with above Fixtures.

DT INDUSTRIAL LIGHTING FIXTURE ACCESSORIES

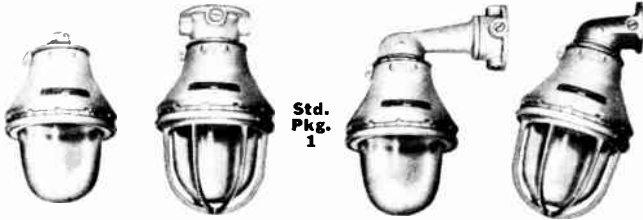
Cat. No.	Fixture Wattage	Dia. In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
STD. DOME					
DTRE-1ST	100-150W*	12	10	205	\$ 5.00
DTRE-2ST	150-300W**	18	10	435	7.30
DTRE-5ST	300-500W	20	5	685	10.00
SHALLOW DOME					
DTRE-1SH	100-150W*	12	10	168	4.40
DTRE-2SH	150-300W**	16	10	290	6.40
DTRE-5SH	300-500W	18	5	440	9.00
30° ANGLE					
DTRE-1AN	100-150W*	12	10	200	5.30
DTRE-2AN	150-300W**	14	10	305	6.30
GLOBE					
Cat. No.	Fixture Wattage	Std. Pkg.	Wt.-Lbs. Per 100	List Price	
DTGL-1	100-150W*	1	300	1.90	
DTGL-2	150-200 or 300W**	1	500	2.80	
DTGL-5	300-500W	1	1025	6.20	
GLOBE GUARDS					
DTGU-1	100-150W*	1	200	6.00	
DTGU-2	150-200 or 300W**	1	300	6.80	
REFLECTOR GUARDS					
Cat. No.	Size In.	For Use With Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
DTGU-12S	12	DTRE-1ST	..	90	\$ 3.65
DTGU-12	12	DTRE-1SH	10	100	3.65
DTGU-14S	14	DTRE-2AN	10	110	4.20
DTGU-16	16	DTRE-2SH	10	140	4.75
DTGU-18S	18	DTRE-2ST	10	260	5.30
DTGU-18	18	DTRE-5SH	10	160	5.30
DTGU-20	20	DTRE-5ST	10	200	8.00

10% discount for \$100.00 to \$299.99 list.
 26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF FIXTURES

All Lighting Fixtures listed below are Explosion-Proof and Weather-Resistant, approved for Class 1, Groups C and D with exceptions as noted at bottom. U.L. Rating—300 Volts Maximum.

AA-51 INCANDESCENT AND MERCURY VAPOR FIXTURES



Type AAP PENDANT				Type AAC CEILING			
Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Wattage	Cat. No.	Wt.-Lbs. Per 100	List Price
AAP1050	1025	\$34.80	1/2	60-100W	AAC1050	1416	\$42.50
AAP1550	1025	34.80	1/2	150-200W†	AAC1550	1416	42.50
AAP2050	1350	48.80	1/2	#200-300W	AAC2050	1741	56.50
AAP5050	2250	71.80	1/2	300-500W	AAC5050	2641	79.50
AAP1075	1025	35.00	3/4	60-100W	AAC1075	1375	43.00
AAP1575	1025	35.00	3/4	150-200W†	AAC1575	1375	43.00
AAP2075	1350	49.00	3/4	#200-300W	AAC2075	1700	57.00
AAP5075	2250	72.00	3/4	300-500W	AAC5075	2600	80.00

Type AALB LONG BRACKET				Type AASB SHORT BRACKET			
Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Wattage	Cat. No.	Wt.-Lbs. Per 100	List Price
AALB1050	1850	\$46.00	1/2	60-100W	AASB1050	1500	\$45.00
AALB1550	1850	46.00	1/2	150-200W†	AASB1550	1500	45.00
AALB2050	2175	60.00	1/2	#200-300W	AASB2050	1825	59.00
AALB5050	3075	83.00	1/2	300-500W			
AALB1075	1850	46.50	3/4	60-100W	AASB1075	1400	45.20
AALB1575	1850	46.50	3/4	150-200W†	AASB1575	1400	45.20
AALB2075	2175	60.50	3/4	#200-300W	AASB2075	1725	59.20
AALB5075	3075	83.50	3/4	300-500W			

AA-51 MERCURY VAPOR FIXTURES

Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Wattage	Cat. No.	Wt.-Lbs. Per 100	List Price
AAP2550MV	1340	\$74.80	1/2	250W	AAP4050MV	2425	\$84.30
AAC2550MV	1741	82.50	1/2	BT-28†	AAC4050MV	2815	92.00
AALB2550MV	2175	86.00	1/2	M.V. Lamp	AALB4050MV	3250	95.50
AAP2575MV	1340	75.00	3/4	400W	AAP4075MV	2425	84.50
AAC2575MV	1700	83.00	3/4	BT-37†	AAC4075MV	2775	92.50
AALB2575MV	2150	86.50	3/4	M.V. Lamp	AALB4075MV	3225	96.00

To order above Lighting Fixtures with Reflector, add proper suffix ST, SH, DB, AN or HB to any of the above (Cat. Nos.). To order above fixture with Guards, add suffix "G" to Cat. No. plus PENDANT sizes in the 1/4" Ceiling sizes in "I".

STEEL REFLECTORS FOR AA-51 LISTED ON THIS PAGE

ST	SH	DB	AN	HB#		
STANDARD DOME	SHALLOW DOME	DEEP BOWL	30° ANGLE	HIGH BAY		
Cat. No.	List Price	Fixture Wattage	Ref. Dia.-In.	Per 100	Cat. No.	List Price
STANDARD DOME				SHALLOW DOME		
AARE-1ST	\$4.70	60-100W	12	215	AARE-1SH	\$4.70
AARE-15ST	5.40	150-200W†	14	235	AARE-15SH	5.40
AARE-2ST	6.60	#200-300W*	16	310	AARE-2SH	6.60
AARE-5ST	11.00	250W M.V.	18	470	AARE-5SH	11.00
		300-500W				
		400W M.V.				
DEEP BOWL				30° ANGLE		
AARE-1DB	\$4.80	60-100W	12	183	AARE-1AN	\$5.20
AARE-15DB	5.50	150-200W†	14	180	AARE-15AN	6.00
AARE-2DB	7.10	#200-300W*	16	208	AARE-2AN	7.60
		250W M.V.				
		300-500W				
		400W M.V.				
HIGH BAY						
AARE-5HB	300-500W or 400W M.V.	18	345	Aluminum	21.00	

†Class I, Group D only with 200 or 300W PS-25 Lamp using 30° Angle or Deep Bowl Refl. Also all 400W M.V. and 250W M.V. with Deep Bowl Refl.
*Also listed for Class II, Groups F and G, using a maximum of 200 watt med. Base Lamp.
U. S. Pat. Nos.: 2,530,135—2,715,214—2,786,936.
Can. Pat. Nos.: 503,405—622,157—615,018.
†300-500W is Mogul Base, all others are Medium Base.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF FIXTURES

All Lighting Fixtures listed below are Explosion-Proof and Weather-Resistant, approved for—Class 1, Groups C and D with exceptions as noted at bottom. U.L. Rating—300 Volts Maximum.

AA-51 INCANDESCENT & M.V. GLOBES & GUARDS

Color	60-200W		Wt. # 100	List Price	#200-300W		Wt. # 100	List Price
	Cat. No.				Cat. No.			
INCANDESCENT								
Clear	AAGL-1	225	\$6.50	AAGL-2	450	\$11.50		
Green	AAGL-1G	225	12.00	AAGL-2G	450	21.75		
Red	AAGL-1R	200	12.00	AAGL-2R	450	21.75		
Amber	AAGL-1A	200	12.00	AAGL-2A	450	21.75		
Clear	AAGL-5	300-500W	20.50		900	20.50		

MERCURY VAPOR GLOBES

250W		400W	
Clear	AAGL-25MV	600	11.50
	AAGL-4MV	1025	20.50

INCANDESCENT LIGHTING FIXTURE GUARDS

Cat. No.	Fixture Wattage	Med. Base	Wt.-Lbs. Per 100	List Price
AAGU-1	60-200W	Med. Base	60	\$ 2.00
AAGU-2	200-300W	Med. Base	90	3.00
AAGU-5	300-500W	Mogul Base	250	5.00

MERCURY VAPOR LIGHTING FIXTURE GUARDS

GUARD	AAGU-2	250W M.V.	90	3.00
STD PKG-10	AAGU-4MV	400W M.V.	300	7.50

MOUNTING UNILETS FOR AA-51 FIXTURES LISTED ON THIS PAGE

PENDANT		CEILING		LONG BRACKET		SHORT BRACKET	
Size In.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price	
1/2	AAP-50	125	\$5.00	AASB-50	600	\$15.00	
3/4	AAP-75	125	5.20	AASB-75	500	15.50	
1/2	AAC-50	516	12.70	AALB-50	950	16.20	
3/4	AAC-75	475	13.20	AALB-75	925	16.70	

AA-51 FIXTURE UNITS

INCANDESCENT			
AAU-1	60-100W	Med. Base	900 \$29.80
AAU-15	150-200W†	Med. Base	900 29.80
AAU-2	#200-300W	Med. Base	1225 43.80
AAU-5	300-500W	Mogul Base	2125 66.80

MERCURY VAPOR UNITS

AAU-25MV	For 250W Type BT-28 M.V.	1225	69.80
AAU-4MV	For 400W Type BT-37 M.V.	2300	79.30

AA-51 PRISMATIC REFLECTOR UNITS*

Size In.	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	AAC2050PR	2091	\$94.20
3/4	AAC2075PR	2050	94.70
1/2	AAP2050PR	1700	86.50
3/4	AAP2075PR	1700	86.70

AAU FIXTURE UNIT WITH GLOBE, LESS REFLECTOR

Cat. No.	Description	Wt.-Lbs. Per 100	List Price
AAU-2PR	200-300W PS-30 Med. Base	1225	\$47.00
PRISMATIC REFLECTOR ONLY			
AARE-2PR	Reflector with Hardware	350	39.00
AAGL-2PR	Reflector only	225	28.00

EXPLOSION-PROOF HANDLAMPS

Cat. No.	Wattage	Description	Wt.-Lbs. Per 100	List Price
AAHL100	60-100W	AA-51 Construction	1200	\$67.00
AAHL150	150-200W	Cbl. Dia. 1240 to 625	1200	67.00
AAHL200	200-300W	3-Wire—Grounded	1550	73.00
EHL-100	100W A-21 Lamp	Cable dia. { 25W—6 1/2 } { Tub. Lamp } { .375 to .625 }	550	47.00
EVHS25			350	31.50
EVL25			410	35.00

†300-500W is Mogul Base, all others are Medium Base.

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26% discount for \$300.00 list or over.

APPLETON LIGHTING FIXTURES
GLOBES FOR VSA OR VSB VAPORTIGHT LIGHTING FIXTURES

Cat. No.	Fixture Wattage	Std. Pkg.	Wt. 100	List Price
CLEAR				
VSGL-2CL	60-300 Watt	10	181	\$2.30
VSGL-5CL	300-500 Watt	10	250	6.50
DIFFUSING				
VSGL-2D	60-300 Watt	10	325	3.15
VSGL-5D	300-500 Watt	10	311	9.20
HEAT RESISTANT—CLEAR				
VSGL-2HR	60-300 Watt	8	181	4.45
VSGL-5HR	300-500 Watt	8	328	6.35

VSA AND VSB WIRE GUARDS

Cat. No.	Depth In.	Diam. In.	Wt.-Lbs. Per 100	Std. Pkg.	List Price
G-1314	5	14	125	10	\$5.40
G-1316	5 1/4	16	140	10	5.80
G-1318	5 1/4	18	160	10	7.00

Electrically welded steel.

100 WATT REA FARM VAPORTIGHT LIGHTING FIXTURES

Pressure cast aluminum mounting unilet and clear glass globe. No reflectors are available for REA fixtures.

Cat. No.	Description	Wt.-Lbs. Per 100	Std. Pkg.	List Price
REA-10B	For 4" square outlet box	223	1	\$5.30
REA-10LB	Wall mounted	400	10	7.00
REA-1050	Pendant 1/2" hub	213	10	4.80

REA LIGHTING FIXTURE GUARD & PENDANT HOOD

Cat. No.	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
REAGU-1	Steel wire guard	20	117	\$ 1.70
REA-50	1/2 Hub—Set Screw	6	200	3.30

NOTE: Appleton V-51 Vaportight Glass or Plastic Globes will fit REA Fixtures.

VHL VAPORTIGHT HANDLAMP AND GLOBES

With globe, guard and porcelain receptacle. Use with Type S or S0 cable 3/8" to 1/2" diameter.

Cat. No.	Description	Standard Package	Wt.-Lbs. Per 100	List Price
VHL-100	100W. Grounded	1	350	\$16.00
2903	25-60W. Globe	20	95	2.05
2905	75-100W. Globe	20	131	2.05

APPLETON EDT INDUSTRIAL DUST-TIGHT LIGHTING FIXTURES

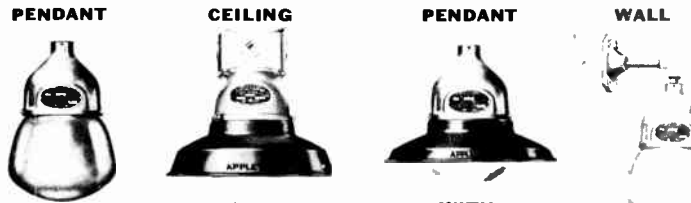
Dust-Ignition-Proof, Dust-Tight Weather-Resistant, Raintight, Class II, Groups E, F and G; Class III. 25 to 200 watts

Cat. No.	Description	List Price
EDTP2050G	With globe and guard. 1/2" hub. Diameter 6 1/4". Height 9 1/4".....	\$9.20
EDTP2050	With globe only.....	5.30

Cat. No.	Description	Fixture Wattage	Dia. In.	Wt.-Lbs. Per 100	Std. Pkg.	List Price
EDTRE-1ST	Std. Dome	25-100	12	210	10	\$4.10
EDTRE-15ST	Std. Dome	150	16	380	10	5.55
EDTRE-1SH	Shallow	25-100	12	190	10	4.10
EDTRE-15SH	Shallow	150	16	335	10	4.25
DPGU-2	Guard	25-200	00	65	10	3.90
VSGL-2CL	Globe	25-200	00	181	10	2.30

APPLETON DUST-TIGHT LIGHTING FIXTURES
DT INDUSTRIAL DUST-TIGHT LIGHTING FIXTURES
 Furnished with Type "X" Unilet—100 to 500 Watt

Dust-Ignition-Proof, Dust-Tight, Weather-Resistant, Raintight, Class II, Groups E, F, G; Class III. 1 Per Std. Pkg.



Cat. No.	Wt.-Lbs. Per 100	List Price	Size In.	Watts	Cat. No.	Wt.-Lbs. Per 100	List Price	
PENDANT					CEILING			
DTP1050	600	\$17.20	1/2	100-	DTC1050	875	\$20.40	
DPT1075	575	17.40	3/4	150W*	DTC1075	850	20.60	
DPT2050	900	20.00	1/2	200 or	DTC2050	1100	24.20	
DPT2075	850	20.20	3/4	300W**	DTC2075	1125	24.40	
DPT5075	1325	42.70	1/2	500W	DTC5050	1500	46.90	
			3/4		DTC5075	1650	47.10	
WITH STANDARD DOME REFL.					WITH SHALLOW REFL.			
PENDANT—STANDARD DOME REFL.					CEILING			
DTP1050ST	805	\$22.20	1/2	100-	DTC1050ST	1080	\$25.40	
DTP1075ST	780	22.40	3/4	150W*	DTC1075ST	1055	25.60	
DTP2050ST	1335	27.30	1/2	200 or	DTC2050ST	1535	31.50	
DTP2075ST	1285	27.50	3/4	300W**	DTC2075ST	1560	31.70	
DTP5075ST	2010	52.70	1/2	500W	DTC5050ST	2185	56.90	
			3/4		DTC5075ST	2335	57.10	
PENDANT—SHALLOW DOME REFL.					CEILING			
DTP1050SH	768	\$21.60	1/2	100-	DTC1050SH	1043	\$24.80	
DTP1075SH	743	21.80	3/4	150W*	DTC1075SH	1018	25.00	
DTP2050SH	1190	26.40	1/2	200 or	DTC2050SH	1390	30.60	
DTP2075SH	1140	26.60	3/4	300W**	DTC2075SH	1415	30.80	
DTP5075SH	1765	51.70	1/2	500W	DTC5050SH	1940	55.90	
			3/4		DTC5075SH	2090	56.10	

WALL TYPE WITH DUST-TIGHT UNILET WITH LUGS & CLOSE-UP PLUGS

DTLB1050	1125	\$28.20	1/2	100-	Take Reflector DTRE-1AN and DTRE-2AN only.
DTLB1075	1150	28.40	3/4	150W*	
DTLB2050	1625	32.00	1/2	150-200	
DTLB2075	1550	32.20	3/4	300W**	

*Approved for use with 150 Watt, A-23 Lamp.
 **Approved for use with 300 Watt, PS-30 Medium Base Lamp.
 30° Angle Reflectors may be used with above Fixtures.

DT INDUSTRIAL LIGHTING FIXTURE ACCESSORIES

Cat. No.	Fixture Wattage	Dia. In.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
STD. DOME					
DTRE-1ST	100-150W*	12	10	205	\$ 5.00
DTRE-2ST	150-300W**	18	10	435	7.30
DTRE-5ST	300-500W	20	5	685	10.00
SHALLOW					
DTRE-1SH	100-150W*	12	10	168	4.40
DTRE-2SH	150-300W**	16	10	290	6.40
DTRE-5SH	300-500W	18	5	440	9.00
30° ANGLE					
DTRE-1AN	100-150W*	12	10	200	5.30
DTRE-2AN	150-300W**	14	10	305	6.30
GLOBE					
Cat. No.	Fixture Wattage	Std. Pkg.	Wt.-Lbs. Per 100	List Price	
DTGL-1	100-150W*	1	300	1.90	
DTGL-2	150-200 or 300W**	1	500	2.80	
DTGL-5	300-500W	1	1025	6.20	
GLOBE GUARDS					
DTGU-1	100-150W*	1	200	6.00	
DTGU-2	150-200 or 300W**	1	300	6.80	
REFLECTOR GUARDS					
Cat. No.	Size In.	For Use With Cat. No.	Std. Pkg.	Wt.-Lbs. Per 100	List Price
DTGU-12S	12	DTRE-1ST	..	90	\$ 3.65
DTGU-12	12	DTRE-1SH	10	100	3.65
DTGU-14S	14	DTRE-2AN	10	110	4.20
DTGU-16	16	DTRE-2SH	10	140	4.75
DTGU-18S	18	DTRE-2ST	10	260	5.30
DTGU-18	18	DTRE-5SH	10	160	5.30
DTGU-20	20	DTRE-5ST	10	200	8.00

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 26% discount for \$300.00 list or over.

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 26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF FIXTURES

All Lighting Fixtures listed below are Explosion-Proof and Weather-Resistant, approved for Class 1, Groups C and D with exceptions as noted at bottom. U.L. Rating—300 Volts Maximum.

AA-51 INCANDESCENT AND MERCURY VAPOR FIXTURES



AAP1050				AAC1050G				AALB1050				AASB1050G			
Cat. No.	Type	Wt.-Lbs.	List Price	Size In.	Wattage	Cat. No.	Type	Wt.-Lbs.	List Price	Size In.	Wattage	Cat. No.	Type	Wt.-Lbs.	List Price
AAP1050	PENDANT	1025	\$34.80	1/2	60-100W	AAC1050	CEILING	1416	\$42.50	1/2	60-100W	AALB1050	LONG BRACKET	1850	\$46.00
AAP1550	PENDANT	1025	34.80	1/2	150-200W†	AAC1550	CEILING	1416	42.50	1/2	150-200W†	AALB1550	LONG BRACKET	1850	46.00
AAP2050	PENDANT	1350	48.80	1/2	#200-300W	AAC2050	CEILING	1741	56.50	1/2	#200-300W	AALB2050	LONG BRACKET	2175	60.00
AAP5050	PENDANT	2250	71.80	1/2	300-500W	AAC5050	CEILING	2641	79.50	1/2	300-500W	AALB5050	LONG BRACKET	3075	83.00
AAP1075	PENDANT	1025	35.00	3/4	60-100W	AAC1075	CEILING	1375	43.00	3/4	60-100W	AALB1075	LONG BRACKET	1850	46.50
AAP1575	PENDANT	1025	35.00	3/4	150-200W†	AAC1575	CEILING	1375	43.00	3/4	150-200W†	AALB1575	LONG BRACKET	1850	46.50
AAP2075	PENDANT	1350	49.00	3/4	#200-300W	AAC2075	CEILING	1700	57.00	3/4	#200-300W	AALB2075	LONG BRACKET	2175	60.50
AAP5075	PENDANT	2250	72.00	3/4	300-500W	AAC5075	CEILING	2600	80.00	3/4	300-500W	AALB5075	LONG BRACKET	3075	83.50

Type AALB LONG BRACKET				Type AASB SHORT BRACKET					
Cat. No.	Type	Wt.-Lbs.	List Price	Size In.	Wattage	Cat. No.	Type	Wt.-Lbs.	List Price
AALB1050	LONG BRACKET	1850	\$46.00	1/2	60-100W	AASB1050	SHORT BRACKET	1500	\$45.00
AALB1550	LONG BRACKET	1850	46.00	1/2	150-200W†	AASB1550	SHORT BRACKET	1500	45.00
AALB2050	LONG BRACKET	2175	60.00	1/2	#200-300W	AASB2050	SHORT BRACKET	1825	59.00
AALB5050	LONG BRACKET	3075	83.00	1/2	300-500W	AASB5050	SHORT BRACKET	2600	80.00
AALB1075	LONG BRACKET	1850	46.50	3/4	60-100W	AASB1075	SHORT BRACKET	1400	45.20
AALB1575	LONG BRACKET	1850	46.50	3/4	150-200W†	AASB1575	SHORT BRACKET	1400	45.20
AALB2075	LONG BRACKET	2175	60.50	3/4	#200-300W	AASB2075	SHORT BRACKET	1725	59.20
AALB5075	LONG BRACKET	3075	83.50	3/4	300-500W	AASB5075	SHORT BRACKET	2600	80.00

AA-51 MERCURY VAPOR FIXTURES

Cat. No.	Type	Wt.-Lbs.	List Price	Size In.	Wattage	Cat. No.	Type	Wt.-Lbs.	List Price
AAP2550MV	PENDANT	1340	\$74.80	1/2	250W	AAP4050MV	PENDANT	2425	\$84.30
AAC2550MV	CEILING	1741	82.50	1/2	BT-28†	AAC4050MV	CEILING	2815	92.00
AALB2550MV	LONG BRACKET	2175	86.00	1/2	M.V. Lamp	AALB4050MV	LONG BRACKET	3250	95.50
AAP2575MV	PENDANT	1340	75.00	3/4	400W	AAP4075MV	PENDANT	2425	84.50
AAC2575MV	CEILING	1700	83.00	3/4	BT-37†	AAC4075MV	CEILING	2775	92.50
AALB2575MV	LONG BRACKET	2150	86.50	3/4	M.V. Lamp	AALB4075MV	LONG BRACKET	3225	96.00

To order above Lighting Fixtures with Reflector, add proper suffix ST, SH, DB, AN or HB to any of the above Cat. Nos. To order above fixture with Guards, add suffix "G" to Cat. No. plus PENDANT sizes in the 1/4"-Ceiling sizes in 1".

STEEL REFLECTORS FOR AA-51 LISTED ON THIS PAGE

ST	SH	DB	AN	HB#	Std. Pkg. 10	
STANDARD DOME	SHALLOW DOME	DEEP BOWL	30° ANGLE	HIGH BAY		
Cat. No.	List Price	Fixture Wattage	Ref. Dia.-In.	Per 100	Cat. No.	List Price
AARE-1ST	\$4.70	60-100W	12	215	AARE-1SH	\$4.70
AARE-15ST	5.40	150-200W†	14	235	AARE-15SH	5.40
AARE-2ST	6.60	#200-300W*	16	310	AARE-2SH	6.60
AARE-5ST	11.00	250W M.V.	18	470	AARE-5SH	11.00
		300-500W				
		400W M.V.				
DEEP BOWL				30° ANGLE		
AARE-1DB	\$4.80	60-100W	12	183	AARE-1AN	\$5.20
AARE-15DB	5.50	150-200W†	14	180	AARE-15AN	6.00
AARE-2DB	7.10	#200-300W*	16	208	AARE-2AN	7.60
		250W M.V.				
		300-500W				
		400W M.V.				
HIGH BAY						
AARE-5HB		300-500W or 400W M.V.	18	345	Aluminum	21.00

†Class 1, Group D only with 200 or 300W PS-25 Lamp using 30° Angle or Deep Bowl Refl. Also all 400W M.V. and 250W M.V. with Deep Bowl Refl.
*Also listed for Class II, Groups F and G, using a maximum of 200 watt med. Base Lamp.
U. S. Pat. Nos.: 2,530,135—2,715,214—2,786,936.
Can. Pat. Nos.: 503,405—622,157—615,018.
†300-500W is Mogul Base, all others are Medium Base.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF FIXTURES

All Lighting Fixtures listed below are Explosion-Proof and Weather-Resistant, approved for—Class 1, Groups C and D with exceptions as noted at bottom. U.L. Rating—300 Volts Maximum.

AA-51 INCANDESCENT & M.V. GLOBES & GUARDS

Color	60-200W Cat. No.	Wt. # 100	List Price	#200-300W Cat. No.	Wt. # 100	List Price
INCANDESCENT						
Clear	AAGL-1	225	\$6.50	AAGL-2	450	\$11.50
Green	AAGL-1G	225	12.00	AAGL-2G	450	21.75
Red	AAGL-1R	200	12.00	AAGL-2R	450	21.75
Amber	AAGL-1A	200	12.00	AAGL-2A	450	21.75
Clear	AAGL-5	300-500W	20.50		900	20.50

MERCURY VAPOR GLOBES

250W	400W				
Clear AAGL-25MV	600	11.50	AAGL-4MV	1025	20.50

INCANDESCENT LIGHTING FIXTURE GUARDS

Cat. No.	Fixture Wattage	Wt.-Lbs. Per 100	List Price
AAGU-1	60-200W Med. Base	60	\$ 2.00
AAGU-2	200-300W Med. Base	90	3.00
AAGU-5	300-500W Mogul Base	250	5.00

MERCURY VAPOR LIGHTING FIXTURE GUARDS

GUARD	AAGU-2	250W M.V.	Wt.-Lbs. Per 100	List Price
STD PKG-10	AAGU-4MV	400W M.V.	300	7.50

MOUNTING UNILETS FOR AA-51 FIXTURES LISTED ON THIS PAGE

Size In.	Cat. No.	Wt.-Lbs. Per 100	List Price	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	AAP-50	125	\$5.00	AASB-50	600	\$15.00
3/4	AAP-75	125	5.20	AASB-75	500	15.50
1/2	AAC-50	516	12.70	AALB-50	950	16.20
3/4	AAC-75	475	13.20	AALB-75	925	16.70

AA-51 FIXTURE UNITS

Cat. No.	Wattage	Med. Base	Wt.-Lbs. Per 100	List Price
AAU-1	60-100W	900	\$29.80	
AAU-15	150-200W†	900	29.80	
AAU-2	#200-300W	1225	43.80	
AAU-5	300-500W	2125	66.80	

MERCURY VAPOR UNITS

AAU-25MV	For 250W Type BT-28 M.V.	1225	69.80
AAU-4MV	For 400W Type BT-37 M.V.	2300	79.30

AA-51 PRISMATIC REFLECTOR UNITS*

Size In.	Cat. No.	Wt.-Lbs. Per 100	List Price
1/2	AAC2050PR	2091	\$94.20
3/4	AAC2075PR	2050	94.70
1/2	AAP2050PR	1700	86.50
3/4	AAP2075PR	1700	86.70

AAU FIXTURE UNIT WITH GLOBE, LESS REFLECTOR

Cat. No.	Description	Wt.-Lbs. Per 100	List Price
AAU-2PR	200-300W PS-30 Med. Base	1225	\$47.00
PRISMATIC REFLECTOR ONLY			
AARE-2PR	Reflector with Hardware	350	39.00
AAGL-2PR	Reflector only	225	28.00

EXPLOSION-PROOF HANDLAMPS

Cat. No.	Wattage	Description	Wt.-Lbs. Per 100	List Price
AAHL100	60-100W	AA-51 Construction	1200	\$67.00
AAHL150	150-200W	Cbl. Dia. 1240 to 625	1200	67.00
AAHL200	200-300W	3-Wire—Grounded	1550	73.00
EHL-100	100W A-21 Lamp	Cable dia. } Tub. Lamp } .375 to .625	550	47.00
EVHS25	{25W—6 1/2"		350	31.50
EVBL25	{ Tub. Lamp }		410	35.00

†300-500W is Mogul Base, all others are Medium Base.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON HYDROGEN APPROVED FIXTURES

Explosion-Proof and Weather Resistant—Factory Sealed
Class I, Groups A, B, C & D#. U.L. Rating—300 Volts Maximum.

PENDANT



CEILING



SHORT BRACKET



Size	Cat. No.	Wt.	List Price	Cat. No.	Wt.	List Price
PENDANT						
150-200*W						
1/2"	AAPA1550	800	\$66.80	AAPA2050	1225	\$84.80
3/4"	AAPA1575	800	69.00	AAPA2075	1225	85.00
CEILING						
1/2"	AACA1550	1125	74.50	AACA2050	1550	92.50
3/4"	AACA1575	1125	75.00	AACA2075	1500	93.00
SHORT BRACKET						
1/2"	AASB1550	1175	77.00	AASB2050	1600	95.00
3/4"	AASB1375	1175	77.20	AASB2075	1600	95.20

Note: To order Reflector for above Fixture add proper suffix (ST, SH, DB, AN) to Cat. No. & add Price of Reflector to Price of Fixture See Standard AA-51 Listings. Also, if Guard is desired add Suffix "G" to Cat. No. Plus Price.

AAPA HYDROGEN APPROVED MOUNTING UNILETS

Size	Cat. No.	List Price	Size	Cat. No.	Wt.	List Price
1/2"	AAPA-50	\$5.00	3/4"	AAPA-75	125	\$5.20
1/2"	AACA-50	12.70	3/4"	AACA-75	516	13.20
1/2"	AASBA-50	15.00	3/4"	AASBA-75	600	15.50

HYDROGEN APPROVED STAND-BY FIXTURE, GLOBE & GUARD

Cat. No.	Std. Pkg.	Wt. 100	List Price
AUA-15	1	925	\$58.30
AUA-2	1	1250	76.30
GUARD			
AAGUA-15	10	90	1.80
AAGUA-2	10	120	2.50
GLOBE			
AAGLA-15	10	250	23.00
AAGLA-2	10	500	38.50

#Also listed for Class II, Groups F and G, hazardous dust locations, using a maximum of 200 watt medium base lamp.
†Takes 200 watt Type A-25 medium base lamp.
*Takes 300 watt Type PS-30 Med. base lamp.
NOTE: Threaded hub at bottom has set screw to prevent fixture stem from turning. Shaded area indicates items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G and Class III.

EFU FLUORESCENT LIGHTING UNITS

Explosion-Proof, Dust-Ignition-Proof (Dust-Tight); Class I, Groups C and D; Class II, Groups E, F and G; Class III.

Two Lamp Unit
Also available in Three and Four Lamp Units With Enameled Reflector and Ballast



Cat. No.	Hub Size	Line Volts At 60 Cycles	Std. Pkg.	Wt. Ea.	List Price
For use with 40-Watt, 48" T-12 Rapid Start Bi-Bin Lamps					
ARS240-118	1/2" or 3/4"†	118	1	67	\$273.00
ARS240-236	1/2" or 3/4"†	236	1	70	273.00
ARS240-277	1/2" or 3/4"†	277	1	60	273.00
For use with 38-Watt, 48" T-12 Instant Start Single Pin Slimline Lamps					
ASL238-118	1/2" or 3/4"†	118	1	70	273.00
ASL238-277	1/2" or 3/4"†	277	1	70	273.00
For use with 60-Watt, 800 Milliamp, 48" T-12 High Output Lamps					
AH260-118	3/4"	118	1	81	323.00
AH260-277	3/4"	277	1	70	323.00
For use with 100-Watt, 1500 Milliamp, 48" T-12 Very High Output Lamps					
AVH210-118	3/4"	118	1	70	389.00
AVH210-277	3/4"	277	1	70	389.00
For use with 85, 90 or 100-Watt, 60" T-17 Pre-Heat Bi-Pin Lamps					
APH210-118	3/4"	118	1	130	389.00
APH210-236	3/4"	236	1	130	389.00
APH210-277	3/4"	277	1	130	389.00

Fluorescent lamps are not included.
†Hubs are tapped for 3/8" conduit, Two 3/8" to 1/2" reducers are furnished.
Note: Reflectors are steel; white inside, gray outside. Cast aluminum housing.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF HANGERS

EFHC AND EFCA FIXTURE HANGER UNILETS



EFHC—Class I, Groups A, B, C and D;
Class II, Groups E, F and G; Class III,
EFHC—Class I, Groups C and D; Class II;
Groups E, F, and G; Class III

EECHA					EFHC				
Cat. No.	Wt.	List Price	Std. Pkg.	Hub Sides Bottom	Cat. No.	Wt.	List Price	Std. Pkg.	Hub Sides Bottom
TYPE EFHC	100				TYPE EFHC	100			
FHCA7550	425	\$6.30	1	3/4" 1/2"	EFHC7550	425	\$4.90		
FHCA7575	425	6.30	1	3/4" 3/4"	EFHC7575	425	4.90		
FHCA1050	400	6.40	1	1" 1/2"	EFHC1050	400	5.00		
FHCA1075	400	6.40	1	1" 3/4"	EFHC1075	400	5.00		
			1	1" 1"	EFHC1010	400	5.00		

NOTE: Threaded hub at bottom has set screw to prevent fixture stem from turning. Shaded area indicates items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G and Class III.

Two Male Ends				One Male & One Female End			
Cat. No.	Wt./100	List Price	LST.	Cat. No.	Wt./100	List Price	LST.
EXHF14	90	\$11.50	4	EXGF14	105	\$11.80	
EXHF24	150	14.10	4	EXGF24	150	14.60	
EXHF16	100	12.50	6	EXGF16	120	12.90	
EXHF26	180	15.60	6	EXGF26	180	16.10	
EXHF18	120	13.60	8	EXGF18	120	13.90	
EXHF28	175	17.10	8	EXGF28	190	17.60	
EXHF112	200	15.70	12	EXGF112	200	16.00	
EXHF212	300	20.00	12	EXGF212	300	20.50	
EXHF118	165	18.80	18	EXGF118	165	19.20	
EXHF218	280	24.40	18	EXGF218	280	24.90	

NOTE: Threaded hub at bottom has set screw to prevent fixture stem from turning. Shaded area indicates items listed for Class I, Groups A (Acetylene) and B (Hydrogen) in addition to Class I, Groups C and D; Class II, Groups E, F and G and Class III.

EMB MERCURY VAPOR BALLASTS WITH FIXTURE HANGER

Explosion-Proof, Class I, Groups C & D, Class II, E, F, & G & Class III	Ballast Type	Wt./Per 100	List Price
	Single Lamp	3300	\$128.00
	Two Lamp	6300	210.00

Cat. No. 250W.	Cat. No. 400W.	Cat. No. 400W.	Primary Volts at 60 Cycles
EMB25-1-125	EMB40-1-125	EMB40-2-125	Two 120
EMB25-1-250	EMB40-1-250	EMB40-2-250	BT-37 240
EMB25-1-277	EMB40-1-277	EMB40-2-277	M.V. 277
EMB25-1-500	EMB40-1-500	EMB40-2-500	Lamp 480

FIXTURE HANGING ACCESSORIES—Explosion-Proof, Dust-Tight; Class I, Groups C and D; Class II, Groups E, F and G; Class III

Size In.	Cat. No.	Wt. #100	List Price	Cat. No.	Wt. #100	List Price
TWO-WAY SWIVEL						
1/2"	ESD50	345	\$13.50	ESS50	218	\$11.00
3/4"	ESD75	335	13.50	ESS75	210	11.00
ONE-WAY SWIVEL						

LC LOCKING COUPLINGS

Cat. No.	Description	Std. Pkg.	Wt. Per 100	List Price
LC75	3/4" hub and 3/4" stem	25	75	\$3.00
LC1075	1" hub and 3/4" stem	25	75	3.50

GRF FIXTURE HANGER UNILETS AND COVERS

Form I Unilets are used for mounting AA-51 Pendant, DT, EDT and EFU Fluorescent fixtures. Furnished with threaded hubs. Cadmium finish.

Hub Size	Std. Pkg.	Cat. No. GRFC	Wt. 100	List Price	Cat. No. GRFL	Wt. 100	List Price
1/2"	5	GRFC50-LC	275	\$3.00	GRFL50-LC	350	\$3.00
3/4"	5	GRFC75-LC	350	3.20	GRFL75-LC	410	3.20
1"	5	GRFC100-LC	320	3.60	GRFL100-LC	350	3.60
1 1/2"	5	GRFT50-LC	373	3.40	GRFX50-LC	400	3.80
3/4"	5	GRFT75-LC	338	3.60	GRFX75-LC	350	4.00
1"	5	GRFT100-LC	325	4.00	GRFX100-LC	323	4.40

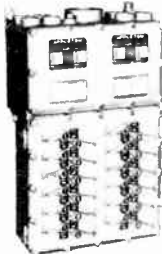
NOTE: Flange has four 3/8" diameter holes. Nominal cover opening diameter is 3 3/4"

Hub Size In.	Cat. No. GRK	Description	Std. Pkg.	Wt. 100	List Price
1/2"	GRK-50C	GRK Canopies for GRF Series	5	260	\$7.40
3/4"	GRK-75C		5	260	7.40
1"	GRK-100C	Listed Above	5	325	7.40

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

**APPLETON EXPLOSION-PROOF
PANELBOARDS**

EWP LIGHTING PANELBOARDS



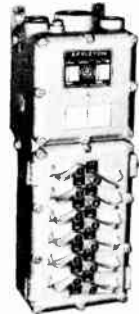
24 Circuit EWP

**Explosion-Proof, Dust-Ignition-Proof and Weather Resistant (Raintight)
Class I, Group D (NEMA Type 7D);
Class II, Groups E, F and G (NEMA Types 9E, F & G);
Class III (NEMA Types 3, 3R & 5).**

The EWP Panelboard is designed especially for lighting circuits in chemical, petrochemical, distillery, refining, milling, enameling and all types of plants and industries where hazardous conditions may exist. Also ideal for use in non-hazardous locations where corrosive vapors, non-combustible dust or moisture are present.

Designed for use on lighting circuits in hazardous locations. The smallest and lightest pre-wired and pre-sealed explosion-proof Panelboard available. The 24 circuit model is only 26" high, 16" wide and 8" deep.

Ample wiring space is provided in the junction compartment for all connections. Main feeder cables are directly connected to pressure terminals, no splicing required. They can be installed, tightened or removed with an Allen wrench without disturbing branch wiring or main terminal protection cover. Special main lugs are appropriately located to eliminate severe bends in heavy main cables. Branch wiring is easy, too, because of the convenient location of the branch circuit terminal board and connection block.



12 Circuit EWP

Circuit breakers used are of the thermal magnetic Quicklag type. They snap into position for easy insertion or removal. 15, 20, or 30 ampere breakers can be supplied when required. Spring loaded operating handles locate on the breaker levers and can be padlocked in "on" or "off" position, trip-free.

Terminals in junction housing are solderless type and numbered for easy installation. Entire unit is a one-piece, aluminum casting. 40 and 50 ampere breakers can be supplied on request.

All EWP models have branch hub openings on the top, bottom and both sides. Shipped complete with mounting brackets.

EWP Panelboards are available with 6 to 24 single-pole, 3 to 12 double-pole and 2 to 8 three-pole breakers in various wiring systems.

Complete Details and Listings on EWP Explosion-Proof Panelboards Can Be Found in Section P of Appleton General Catalog

**EDP-EPP-ESP EXPLOSION-PROOF
LIGHT AND POWER PANELBOARDS**

EDP PLUG-IN PIVOT PANELBOARDS

The EDP Panelboards are the ideal way to provide circuit protection for lighting and low capacity power distribution equipment used in Class I, Group D; Class II, Groups E, F and G; and Class III, hazardous locations. They may also be used in non-hazardous locations where corrosive vapors, non-combustible dusts, or moistures are present.

EDP Panelboards are available in 4 to 24 single pole, 2 to 12 double pole, and 1 to 8 three pole circuits. Unique in design, the EDP series features a "pivot" between the junction and breaker housings.

Operating handles can be locked in either the "On" or "Off" position without interfering with the trip-free action of the circuit breaker.

They are engineered to handle motor control, machinery, alarm, lighting, and a wide range of various types of circuits requiring breaker capacities of 15, 20, or 30 amperes. They are also available with 40 and 50 ampere breakers and for 277 volt lighting system, if specified.

EPP POWER PANELBOARDS

EPP panelboards feature high voltage protection for electrical equipment used in Class I, Group D; Class II, Groups E, F and G and Class III, hazardous locations. May also be used in non-hazardous locations where corrosive vapors, non-combustible dust or moisture are present. Designed to Underwriters' specifications, however their maximum voltage for short circuit test is only for 125 volts. EPP explosion-proof power panelboards have ratings up to 600 volts AC/250 volts DC. Construction is similar to the EDP explosion-proof pivot panelboards and both have the same unique features. Dimensions and hub data for the EPP are the same as for the EDP.

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

**APPLETON EXPLOSION-PROOF
PANELBOARDS**

ESP PANELBOARDS

The ESP is a new, low cost, rugged, durable, one-piece, 2-compartment panelboard for 4 single pole or 2 double pole circuit breakers. An exclusive new mounting principal is used to provide easier installation, operation and maintenance. The ESP is factory wired, sealed and listed by U.L. for use in hazardous locations and can also be used in non-hazardous locations.

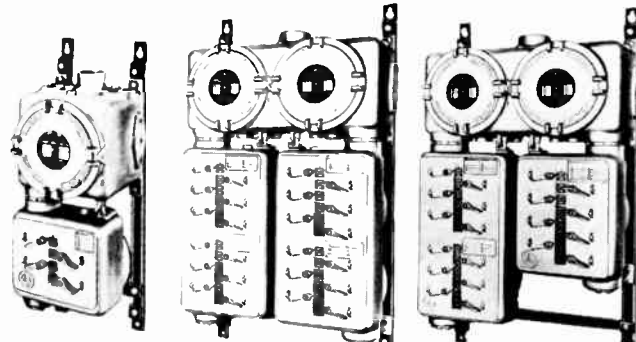
All panelboards are shipped completely factory wired and sealed. No further sealing in field is necessary. Panelboards are sold either with or without drains and breathers. For complete details and listings, request Section P.

3 Wire Mains, 2 Wire Branches, Solid, Neutral and Single Pole Circuit Breakers. Available with 15, 20 or 30 Amp Breakers.

Cat. No.	Branches	Main		Price
		Amp Max.	Lug Range	
EDP4-815	8	60A	4 to 14	\$495.00
EDP4-1615	16	120A	2/0 to 2	821.00
EDP4-2415	24	180A	4/0 to 2	1202.00
EWP4-815	8	60A	10 to 1	357.00
EWP4-1615	16	120A	10 to 1	606.00
EWP4-2415	24	180A	4/0 to 1	769.00

4 Wire, 3 Phase Mains; 2 wire, 1 phase Branches, Solid, Neutral and Single Pole Breakers. Available with 15, 20 or 30 Amp Breakers.

Cat. No.	Branches	Main		Price
		Amp Max.	Lug Range	
EDP5-815	8	45A	4 to 14	\$495.00
EDP5-1615	16	90A	2 to 8	821.00
EDP5-2415	24	120A	2/0 to 2	1202.00
EWP5-815	8	45A	10 to 1	357.00
EWP5-1615	16	90A	10 to 1	606.00
EWP5-2415	24	120A	10 to 1	709.00

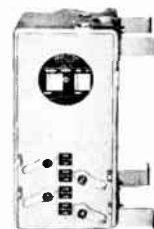


4 Circuit EDP or EPP Panelboard 24 Circuit EDP or EPP Panelboard 20 Circuit EDP or EPP Panelboard

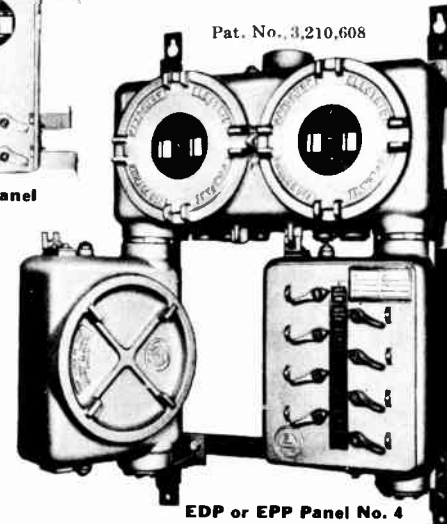
All Panelboards Pivot Except the ESP Patents Pending.



12 Circuit EDP or EPP Panelboard



ESP Panel



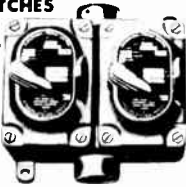
EDP or EPP Panel No. 4

Class I, Group D (NEMA Type 7D); Class II, Groups EFB (NEMA Types 9E, F & G); Class III (NEMA Types 3, 3R45).

10% discount for \$100.00 to \$299.99 list.
26% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF UNILETS

EFD MANUAL MOTOR STARTING SWITCHES



Explosion-Proof, Dust-Ignition-Proof and Weather Resistant (Raintight) Class I, Groups C and D (NEMA Type 7CD); Class II, Groups E, F and G (NEMA Types 9E, F and G); Class III (NEMA Types 3, 3R & 5)

EFD Single Gang		EFD Two Gang		List Price	Poles	Hub Size
Cat. No. with ALLEN-BRADLEY MOTOR STARTER	Wt. Lbs. Per 100	Cat. No. with WESTINGHOUSE MOTOR STARTER				
EFD Single Gang—Dead-End Type						
EFD150-1MSAB	5 1/2	EFD150-1MSW	\$22.90	1	1	1/2"
EFD175-1MSAB	5 1/2	EFD175-1MSW	23.00	1	1	3/4"
EFD110-1MSAB	5 1/2	EFD110-1MSW	23.20	1	1	1"
EFD150-2MSAB	5 1/2	EFD150-2MSW	23.90	2	1	1/2"
EFD175-2MSAB	5 1/2	EFD175-2MSW	24.00	2	1	3/4"
EFD110-2MSAB	5 1/2	EFD110-2MSW	24.20	2	1	1"
EFD Two Gang—Dead End Type						
EFD250-1MSAB	10	EFD250-1MSW	45.80	1	1	1/2"
EFD275-1MSAB	10	EFD275-1MSW	45.90	1	1	3/4"
EFD210-1MSAB	10	EFD210-1MSW	46.10	1	1	1"
EFD250-2MSAB	10	EFD250-2MSW	47.80	2	1	1/2"
EFD275-2MSAB	10	EFD275-2MSW	47.90	2	1	3/4"
EFD210-2MSAB	10	EFD210-2MSW	48.10	2	1	1"
EFDC Single Gang—Feed Thru Type						
EFDC150-1MSAB	5 3/4	EFDC150-1MSW	\$23.10	1	1	1/2"
EFDC175-1MSAB	5 3/4	EFDC175-1MSW	23.30	1	1	3/4"
EFDC110-1MSAB	5 3/4	EFDC110-1MSW	23.70	1	1	1"
EFDC150-2MSAB	5 3/4	EFDC150-2MSW	24.90	2	1	1/2"
EFDC175-2MSAB	5 3/4	EFDC175-2MSW	25.00	2	1	3/4"
EFDC110-2MSAB	5 3/4	EFDC110-2MSW	25.20	2	1	1"
EFDC Two Gang—Feed Thru Type						
EFDC250-1MSAB	10 1/4	EFDC250-1MSW	46.00	1	1	1/2"
EFDC275-1MSAB	10 1/4	EFDC275-1MSW	46.10	1	1	3/4"
EFDC210-1MSAB	10 1/4	EFDC210-1MSW	46.30	1	1	1"
EFDC250-2MSAB	10 1/4	EFDC250-2MSW	48.00	2	1	1/2"
EFDC275-2MSAB	10 1/4	EFDC275-2MSW	48.10	2	1	3/4"
EFDC210-2MSAB	10 1/4	EFDC210-2MSW	48.30	2	1	1"

EFD MANUAL MOTOR STARTING SWITCH UNILETS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant (Raintight) Class I, Group D (NEMA Type 7D); Class II, Groups E, F and G (NEMA Types 9E, F & G); Class III (NEMA Types 3, 3R and 5)



Cat. No.	Hub Size	Pole	Wt.-Lbs. Each	List Price
EFDC150-2MS	1/2"	2	5 3/4	\$18.00
EFDC175-2MS	3/4"	2	5 3/4	18.20
EFDC110-2MS	1"	2	5 1/2	18.70
EFDC150-3MS	1/2"	3	5 3/4	29.70
EFDC175-3MS	3/4"	3	5 3/4	29.90
EFDC110-3MS	1"	3	5 1/2	30.40

NOTE: Feed-thru listed, remove letter "C" from cat. no. for dead-end Types.

GUSC LINE STARTER UNILETS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant (Raintight) Class I, Group C, D (NEMA Type 7CD); Class II, Groups E, F, G (NEMA Types 9E, F, G); Class III, (NEMA Types 3, 3R, 5)



HORSEPOWER RATING — 3/4" Feed-Thru Hubs

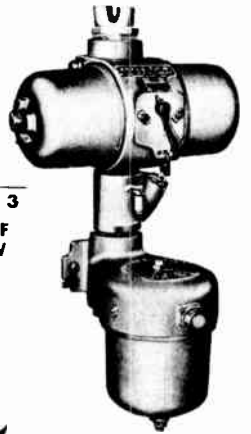
Cat. No. WITH SWITCH AND HEATERS	110V AC	220V AC	440V AC	115V DC	230V DC	Phase	Poles	Size In.	List Price
GUSC75-021*	1	1 1/2	...	1/2	3/4	1	2	...	\$62.00
GUSC75-022	1	1 1/2	...	1/2	3/4	1	2	...	66.00
GUSC75-032	1 1/2	2	2	...	...	3-2	3	...	73.00
GUSC75-042	1 1/2	2	2	...	...	...	4	...	92.00
GUSC75-121*	1 1/2	3	...	1 1/2	2	1	2	...	72.00
GUSC75-122	1 1/2	3	...	1 1/2	2	1	2	...	75.00
GUSC75-132	3	5	7 1/2	...	...	3-2	3	...	83.00
GUSC75-142	3	5	7 1/2	...	...	...	4	...	107.00

*One heater required. Two heaters required on all others. Specify heater by adding the catalog number of the heater as a suffix to the catalog number of the unilet.

18% discount for \$99.99 list or less.
23% discount for \$100.00 to \$299.99 list.
34% discount for \$300.00 list or over.

APPLETON EXPLOSION-PROOF BREAKERS & STARTERS

Explosion-Proof, Dust-Ignition-Proof and Weather Resistant (Raintight) Class I, Group D (NEMA Type 7D); Class II, Groups E, F and G (NEMA Types 9E, F & G); Class III (NEMA Types 3, 3R and 5)



EITHER

CB FORM 2 CB FORM 3
CAN BE USED ON ANY OF THE LINE STARTERS BELOW

Circuit breakers or line starters may be ordered individually or in combination. Request Catalog Section Q for complete data and listings.



LS FORM 01 LS FORM 1 LS FORM 1-1A LS FORM 2 LS FORM 2-1A LS FORM 3 LS FORM 3



EITHER

CB FORM 3 CB FORM 4

CAN BE USED ON LINE STARTERS BELOW



LS FORM 4



Appleton's engineering and production facilities are at your disposal to custom design and construct heavy-duty centralized control and power racks for hazardous areas. All needed equipment is assembled, tested and mounted; wiring is completed and sealed. These complete assemblies eliminate costly field engineering. Appleton engineers will give you information, provide cost data... even design an entire unit to give you maximum utility in minimum space. For prices and data contact Appleton's engineering department giving the following details:

1. Single line wiring diagram indicating type, rating, wiring system and desired arrangement of equipment.
2. Size and location of all conduits.
3. Physical limitations of switchrack and field conditions.
4. Provisions for future expansion (if required).
5. Special fittings if required (Drains, Breathers, etc.).
6. Name and address of company where data is to be sent.

18% discount for \$99.99 list or less.
23% discount for \$100.00 to \$299.99 list.
34% discount for \$300.00 list or over.

MARINE ELECTRICAL EQUIPMENT

BU SHIPS AND MILITARY STANDARDS
MODERN METAL MFG. CO., INC.

Drawing No.	Sym. No.	Fed. Stock No.	Description	Drawing No.	Sym. No.	Fed. Stock No.	Description
*9-S-2034-L			Globe	9-S-4902-L-1		6210-399-6345	Reflector
9-S-2036-L		6250-153-6481	Socket	9-S-4908-L		5975-178-1582	Weather deck outlet
9-S-2057-L	195.1	6220-152-2888	Steer. lt.	9-S-4931-L		6210-153-6474	Lampholder
9-S-2176-L		6210-399-6361	Reflector	*9-S-4943-L			Light. fixt.
*9-S-2524-L			Push button	9-S-4944-L-8		6210-399-6343	Reflector
*9-S-2708-L			Globe	9-S-4971-L		6230-236-8913	Globe, clear
9-S-2792-L		5930-221-8920	Push Sw.	9-S-4983-L		6220-243-0797	Nav. light.
9-S-3136-L		6210-236-8715	Globe	9-S-5010-L		All sizes A-Z	Stuffing tube
*9-S-4072-L			Fresnel lens	9-S-5011-L		5920-178-1649	Fuse box-Subm.
9-S-4088-L		6210-236-8682	Clear globe			5920-178-1648	Fuse box-W.T.
9-S-4112-L		5975-178-1583	Weather deck outlet	*9-S-5021-L			Light. fixt.
*9-S-4237-L			Extension lt.	9-S-5038-L		6250-153-6477	Lampholder
9-S-4260-L		5940-215-5868	Term. box	9-S-5058-L	984	5935-230-0901	Conn. assy.
9-S-4262-L		5940-024-0128	Term. box	9-S-5079-L		6230-151-4214	Light. fixt.
9-S-4268-L			Bushings-sizes A to Z	9-S-5080-L	940	6110-152-0304	Dist. panel
*9-S-4296-L			Fuse clips	9-S-5081-L		6110-151-4203	Power Panel
9-S-4298-L	200.1	6220-151-2882	Navig. lt.	9-S-5133-L		6210-152-2859	Light. fixt.
9-S-4302-L-3			Term. bd.	9-S-5140-L		6110-152-0294	Dist. box
9-S-4326-L	193	6220-152-2880	Navig. lt.	*9-S-5160-L			Water ga. lt.
*9-S-4335-L			Navig. lt.	9-S-5166-L		All sizes A-Z	Stuffing tubes
*9-S-4341-L			Light. fixt.	9-S-5170-L	936	6110-152-0277	Supply, control
9-S-4374-L		6210-243-4926	Lamp guard		937	6110-152-0275	and
9-S-4419-L	23.1	6210-151-9844	Light. fixt.		966	A-17P-477-1210	telltale panel
9-S-4440-L	701	5935-164-7993	Plug	9-S-5191-L		5930-258-5470	Rotary switch
9-S-4471-L	983	5935-230-0902	Conn. assy.	9-S-5196-L	616	6110-152-0286	Dist. panel
9-S-4524-L		5930-224-5672	Contact maker	9-S-5199-L	832	5930-259-8270	Sw. and Ind.
9-S-4535-L		6210-152-2816	Light. fixt.	9-S-5204-L	942	6110-025-9003	Supply panel
9-S-4537-L		6210-152-2836	Light. fixt.	9-S-5211-L		All sizes	Box & Cover ears
9-S-4564-L		5935-188-5833	Recept.	9-S-5212-L			
9-S-4581-L		5930-221-8917	Push button		Pc. 13	5355-219-7314	Knob
9-S-4588-L		6220-151-4208	Indicator	9-S-5214-L	613	5920-178-1612	Fuse box
9-S-4594-L		6210-215-6363	Lamp guard	9-S-5218-L	950	5905-220-9424	Resistor assy.
9-S-4609-L		6210-151-4209	2 dial ind.	9-S-5235-L		All sizes	Stuffing tubes
9-S-4610-L		6210-151-4210	3 dial ind.	*9-S-5259-L			Rapid coupling
9-S-4611-L		6210-151-4211	4 dial ind.	9-S-5262-L	2905	5905-185-9944	Dimmer
9-S-4612-L		6210-151-4212	6 dial ind.	9-S-5279-L	2823	6210-153-6700	Indicator
9-S-4634-L		6250-179-1797	Lampholder	9-S-5280-L	2824	6210-151-4206	2 dial ind.
*9-S-4639-L			Side light	9-S-5281-L		6210-151-4205	Ind. light
*9-S-4640-L			Mst.-Tow. lt.	9-S-5289-L		5975-392-2890	Cable stow. rack
*9-S-4641-L			Stern lt.	*9-S-5293-L			Hand lantern
9-S-4644-L	305	6230-224-5152	Ext. light	9-S-5295-L		6220-223-4362	Pulsator
9-S-4666-L		6210-295-2682	Alum. refl.	9-S-5296-L	1037	5940-153-6756	Guard
9-S-4708-L		5930-224-5677	Push button	*9-S-5299-L			Navig. light
*9-S-4718-L			Switch	9-S-5301-L	1025	5940-336-5889	Riser term.
*9-S-4720-L			Switch	*9-S-5302-L			Riser term.
9-S-4740-L	681.1	5920-024-0127	Fuse box	9-S-5306-L	653		Fuse box
9-S-4753-L		5920-296-4147		*9-S-5309-L		3456-024-1501	Forming die
		5920-178-1618	Dist. box	*9-S-5312-L-3		5920-355-4722	Fuse retainer
9-S-4755-L	614	5920-178-1619	Dist. box	9-S-5333-L			Junction box
9-S-4759-L	615	6110-152-0262	Dist. box	9-S-5334-L			Junction box
9-S-4761-L	617	6110-152-0285	Dist. box	9-S-5335-L			Junction box
9-S-4772-L		5930-233-5408	Switch	9-S-5340-L			Enclosure
9-S-4779-L		6250-151-4213	Lampholder	*9-S-5342-L			Stuffing tubes
9-S-4797-L	706	5935-234-4872	Plug	9-S-5343-L			Stuffing tubes
9-S-4799-L	1853	5975-178-1584	Outlet	9-S-5348-L	600	5920-178-1604	Dist. box
9-S-4812-L		5930-296-4075	Contact maker	9-S-5349-L	601	5920-178-1606	Dist. box
9-S-4831-L		5940-284-4967	Term. box	9-S-5355-L		All sizes	Tubes
9-S-4836-L		6250-153-6480	Lampholder	9-S-5358-L	1044	5940-333-9137	Guard
9-S-4838-L		5930-173-6336	Pushbutton	9-S-5406-L			Term. tube assy.
9-S-4848-L	128	6210-152-2822	Light. fixt.	9-S-5407-L	1038	5975-215-5890	Enclosure
9-S-4853-L-6		6210-399-6346	Reflector	9-S-5427-L	760	5935-197-4953	Receptacle
9-S-4856-L		6250-153-6461	Lampholder	9-S-5428-L	711	5935-215-5887	Plug
9-S-4859	702	5935-195-8918	Plug	9-S-5433-L	934	6220-223-0791	Nav. lt. control
*9-S-4861-L			Plug	9-S-5441-L	2814		Light. fixt.
9-S-4866-L		6210-399-6349	Reflector	9-S-5452-L	300.1	6230-548-0434	Flood lt.
9-S-4875-L	543	5920-178-1624	Fuse box	9-S-5453-L	1039	5975-153-6778	Cover
9-S-4876-L	544	5920-296-4149	Fuse box	9-S-5459-L	602	5920-152-0266	Dist. panel
9-S-4877-L	545	5920-178-1626	Fuse box	9-S-5460-L	605	6110-152-0267	Dist. panel
9-S-4880-L		5920-178-1637	Fuse box	9-S-5461-L	606	6110-152-0269	Dist. panel
9-S-4898-L		6250-153-6490	Lampholder	9-S-5468-L	844	5930-296-9389	Rotary switch

*All types and symbol numbers available.

Price on Application

MARINE ELECTRICAL EQUIPMENT

BU SHIPS AND MILITARY STANDARDS
MODERN METAL MFG. CO., INC.

Drawing No.	Sym. No.	Fed. Stock No.	Description
9-S-5469-L	845	5930-259-7361	Rotary switch
9-S-5478-L		5930-221-8916	
		5930-173-6335	Push button
9-S-5480-L	636	5920-153-5762	Dist. box
9-S-5481-L	637	5920-153-5793	Fuse box
9-S-5483-L		5930-259-8369	Rotary Switch
*9-S-5490-L			Light. fixt.
9-S-5513-L		5930-375-5604	Rotary switch
9-S-5514-L		5930-501-2583	Rotary switch
9-S-5522-L	641	5930-228-7964	Switch box
9-S-5537-L		5935-224-5348	Cable conn.
9-S-5544-L	765	6150-220-9381	Port. triple outlet
9-S-5551-L	2636	5930-296-3149	Contact maker
*9-S-5564-L			Multi. rot. sw.
9-S-5610-L		5935-189-6960	Recept. & sw.
9-S-5613-L		6230-152-2821	Chartboard lt.
9-S-5621-L		All sizes	Stuffing tubes
9000 Series Drawings			
S6202-73002		5935-025-6382	Receptacle
S6202-73028		5935-033-6506	Batt. chg. box
S6202-73030	732	5935-241-2347	Batt. chg. out.
S6405-73043	945	6110-096-2722	Supply control panel, n.w.t.
S6405-73044		6110-152-0301	Power panel
S6202-73055		All sizes	Term. screw assy.
S6405-73065		5930-232-1663	Contact maker
S6202-73075		All sizes	Switches
S6202-73102		5930-259-7159	Transf. sw.
S6202-73104	276.2	5930-259-7360	Transf. sw.
S6201-73107	2463	6130-240-4517	Batt. chg. panel
S6202-73121		6220-243-0798	Navig. lt.
S6405-73127	938	6110-152-0280	Annunciator
S6201-73134	2482	6110-152-0279	Ind. panel
S6202-73137	2459	6130-284-0538	Batt. chg. panel
S6405-73141	175.1	6220-284-0421	Light. fixt.
S8106-73142	477	5975-215-4288	Conn. box
S8106-73143	478	5975-215-4289	Conn. box
S8106-73144	479	5975-215-4290	Conn. box
S8106-73145	480	5975-215-4291	Conn. box
S6202-73157	540	5920-178-1609	Dist. box
S6202-73158	541	5920-153-5788	Fuse box
S6202-73160	609	5920-178-1615	Dist. box
S6206-73162	610	5920-178-1616	Fuse box
S6202-73163	611	5920-178-1617	Fuse box
S6201-73177	1041	5930-392-2894	Port. sw.
*S6405-73190			Dimmer
*S6202-73193			Switch
S6202-73213		5935-199-7020	Receptacle
S6505-73214		All types	Term. boards
S6202-73215	546	5920-178-1613	Power Panel
S6202-73216	547	5920-178-1614	Power Panel
S6201-73233		No F.S.N.	Loudspeaker sel. panel
S6202-73246		No F.S.N.	
		All sizes	Term. tube assy.
S6401-73271	302.2	6230-548-0199	Portable lt.
S6401-73284	124	6230-151-4215	Light. fixt.
S6202-73286		All types & sizes	Packing
S6202-73295		All types	Switches
S6503-73314		5895-174-4437	3"-30" voice tubing
S6202-73319	2773	5930-259-7363	Rotary sw.
*S6202-73338			Jack, red
*S6202-73339			Plug, red
S6405-73341	2557	6120-241-2324	Transf. box
*S6503-73345			Voice tubing
S6503-73345		5895-174-4434	Voice Tubing, type 6
S6202-73351		5925-173-9912	Ckt. bkr. encl.
S6504-73353	2649	No F.S.N.	Contact maker
S6202-73396		No F.S.N.	Enclosure

*All types and symbol numbers available.

9000 Series Drawings			
Drawing No.	Sym. No.	Fed. Stock No.	Description
S6401-73420	137	6210-152-2844	Light. fixt.
S6202-73422	499	5940-228-7966	Term. box
S6202-73448	752	6150-220-9382	Recept. Port.
*S6202-73449			Ckt. bkr. & block
*S6201-73450			Power panel
S6405-73455		6250-295-2853	Lampholder
S6405-73456		6250-264-6441	Lampholder
S6405-73457		6250-264-6442	Mult. lampholder
S6501-73466	2647	5930-240-8098	Contact maker
S6202-73481			Plug, red
S6202-73482		5935-280-2391	Jack, red
*S6501-73495			Tel. stow. box, 1 comp.
S6405-73499	249	6210-382-9157	Ultra-violet lt.
S6507-73677	2840	6625-224-8201	I.C. Swbd.
S6202-73684		No F.S.N.	Canvas cover
S6202-73685		No F.S.N.	Canvas cover
S6501-73689	2651	5930-259-8899	Sensitive sw.
S6202-73691	817	6110-174-1614	Motor starter
*S6202-73692			Motor start. sw.
S6202-73725		5930-296-6039	Rotary sw.
S6202-73747	914	No F.S.N.	Sw. & recept.
S6202-73754	2619.1	5930-296-5288	Sw. & recept.
S6202-73755	2620	5930-096-2726	Push button
S6202-73756	2621	5930-096-2727	Push button
S6202-73771	2488		Ckt. bkr. panel
S6202-73772		All types	Shockmounts
S6202-73782	799	5930-033-5664	Foot switch
S6405-73784		6250-231-9834	Lamp socket
S6202-73799	753	5935-222-7935	Mult. outlet
S6501-73801	2988	5805-548-8019	Call sig. sta.
*S6504-73806			Alarm panel
S6504-73807	2934	6350-360-0988	Alarm panel
S6401-73808	142.1	6230-548-0385	Desk light
S6401-73811			Light. fixt.
S6501-73819	2938	5965-263-1226	Handset cab.
*S6401-73820			Spotlight
*S6201-73823			Power panel
S6202-73825		5920-285-0466	Fuse box
S6202-73826		All types	Switches
S6202-73827		All types	Switches
*S6401-73842			Light. fixt.
S6202-73860	406.1	5940-284-9142	Term. box
S6202-73861	754.1	5935-305-1374	Test bench rec.
*S6202-73882			Plug
S6202-73883	755.2	5935-091-9436	Test bench rec.
S6405-73885			Side light
S6405-73886	209.1	6220-399-6334	Bow light
S6405-73887	210.1	6210-211-2864	Range light
S6202-73888	860	5930-296-9298	Push button
S6501-73891	2916.1	5935-549-3725	Jack box
*S6501-73892			Rec. & jack box
S6504-73894	2646.1	5930-258-5460	Contact maker
S6202-73895	504	5935-259-3558	Conn. assy.
S6202-73896	784	No F.S.N.	Push sw.
S6504-73904	2622	6350-295-2682	Bell
S6504-73905	2623	6350-295-2847	Buzzer
S6202-73907			Ind. light
S6202-73928		No F.S.N.	Enclosure
*S6201-73930			Manual bus
*S6202-73935			Pressure sw.
S6401-73938	66.1	6210-299-7702	Light. fixt.
*S6401-73939			Lt. fixt. parts
S6202-73944	776	5935-197-4945	Recept. box
S6202-73965	721	No F.S.N.	Conn. plug
S6202-73966	726	No F.S.N.	Conn. recept.
*S6401-73971			Light. fixt.
S6202-73978	2989	5935-355-4740	Jack box
S6202-73979	2990	5930-258-5457	Switch assy.
S6202-73980	406.1		Term. junct. box

Sect. 3/57

Price on Application

MARINE ELECTRICAL EQUIPMENT

BU SHIPS AND MILITARY STANDARDS

MODERN METAL MFG. CO., INC.

9000 Series Drawings

Drawing No.	Sym. No.	Fed. Stock No.	Description
S6202-73980	430.1		Dbl. recept.
Sect. 3/57			
S6202-73980	780.5		Toggle sw.
Sect. 3/57			
*S6201-73988			Power panel
S6401-78989	159	6210-548-0092	Light. fixt.
*S6504-73993			Annunc. encl.
S6401-78997	91.1	6210-548-0381	Light. fixt.
S6202-74013		5975-296-1300	Enclosure
S6202-74014		5975-096-2717	Enclosure
S6202-74015		5975-096-2718	Enclosure
S6501-74016	435.1	5940-215-5959	Conn. box
S6501-74017	520.1	5940-351-2222	Conn. box
S6202-74018	528	5940-351-2223	Conn. box
S6202-74023		5975-296-5300	Enclosure
S6202-74024	438	5940-351-2228	Term. box
S6202-74026	735.1	5935-280-2390	Receptacle
*S6202-74027			Term. box
S6202-74028	671.1	5920-355-4729	Fuse box
S6202-74030	524.1	5940-351-2229	Term. box
S6202-74031		5355-219-7314	Encl. parts
S6401-74043		6210-399-6299	Light. fixt.
S6202-74052	792	5930-259-8890	Door sw.
*S6504-74055			Contact maker
*S6202-74056			Relay
*S6202-74057			Relay
S6501-74062	2873.1	5920-090-0870	Lightning arrestor
S6202-74065		5975-296-4751	Enclosure
S6202-74066		5975-296-4752	Enclosure
S6202-74068	900.1	5935-025-6379	Recept. & sw.
S6401-74070	5.1		Berth lt.
S6504-74081	2977	5930-033-6729	Water sw.
S6202-74085		All types	Switches
S6202-74089		All types	Rot. sw. comp.
S6202-74090		All types	Switches
S6501-74093	2860.1	5930-033-5665	Sw. box
S6501-74094	2861.1	5930-033-5666	Sw. box
S6202-74096		All types	Switches
S6405-74100	211	6220-399-6335	Stern lt.
*S6405-74102			Polarity lt.
*S6502-74117			Rec. & plug
S6401-74118	309	6230-215-6362	Searchlight
S6501-74120		5935-254-9192	Jack
S6202-74159	741.1	5935-025-6386	Receptacle
S6202-74160	743.1	No F.S.N.	Receptacle
S6202-74161	744.1	5935-025-6395	Receptacle
S6202-74162	742.1	5935-025-6376	Receptacle
S6202-76163	750.1	6150-033-5657	Receptacle
*S6202-74207			Rotary sw.
S6505-74211		5935-254-9287	Plug
S6201-74213	2506	6130-216-7376	Batt. chg. panel
*S6401-74218			Lt. unit
*S6401-74219			Lt. unit
S6401-74220			Lt. unit
*S6401-74221			Cabin lt.
S6405-74222		All sizes & colors	Lenses & globes
S6202-74224		All types	Switches
S6202-74225		All types	Switches
S6202-74228		5920-384-8924	Fuseholder
S6202-74229		5920-384-8925	Fuseholder
S6405-74230		5920-384-8927	Fuseholder
S6401-74231	160.1	6220-548-0217	Light. fixt.
*S6401-74232			Light. fixt.
S6401-74233	674	5920-699-5248	Junc. box
S6405-74240	212	6220-215-6364	Lt. unit
S6504-74244	2507	No F.S.N.	Control panel
S6405-74245	310	6210-399-6339	Panel lt.
S6405-74246	951.1	5950-033-5669	Dimmer
S6505-74249	2793	8130-263-8644	Reel & Stow. bkt.

*All types and symbol numbers available.

9000 Series Drawings

Drawing No.	Sym. No.	Fed. Stock No.	Description
S6504-74251	2556.2	6220-500-1227	Nav. lt. kit
S6202-74260	472	No F.S.N.	Minesweeping Cable
S6202-74267	748.1		Recept.
*S6505-74268			Horn
S6402-74270	989	6220-399-7104	Control panel
S6202-74272	978.1	6220-399-7105	Control key
S6202-74276			Rotary sws.
S6405-74277	213	6220-215-6365	Lt. unit
S6405-74278	217	6220-248-0423	Lt. unit
S6405-74279	218	6220-399-6336	Lt. unit
S6504-74285	2670	6320-261-9128	Alarm panel, 10 line
*S6202-74290			Rotary sw.
S6202-74292		No F.S.N.	Rheostat
S6202-74293		No F.S.N.	Control box
S6202-74294	859	5930-216-7404	Control box
S6501-74295	2788	5930-296-6041	Rot. sel. sw.
S6202-74298	2933.1	5920-033-6598	Fuse box
S6202-74302		5935-258-1258	Plug, type II-3513
S6202-74306	949.1	6110-548-0618	C & D panel
*S6202-74308			Horn
*S6504-74309			Siren
S6202-74313	733.1	5935-033-6508	Batt. chg. outl. box
*S6202-74319			Pulsator
S6504-74320		6350-299-6224	Horn, IC/H2D4
S6504-74320		6350-224-4944	Horn, IC/H2S4
S6504-74322	2763	5930-259-7363	Sw. box
S6202-74326	970.1	6220-243-0796	Controller speed lt.
S6501-74329			Control maker
S6401-74333		6250-295-2852	Lampholder
S6202-74336		5935-096-2714	Receptacle
S6502-74341		5930-258-4753	Sw. assy.
*S6504-74342			Bell
S6502-74345	2673	5935-257-9966	Microphone jack box
*S6405-74355			Side lts.
S6401-74364	301.1	6230-295-2776	Searchlight
S6202-74367	777	5935-096-3239	Recept. box
S6202-74369	511	6110-338-3808	Term. box
S6202-74372	763	5935-033-5656	Recept.
S6202-74383		5930-296-9299	Push sw.
S6202-74385		All types	Nylon term. tube
S6405-74392	239.1	6220-215-6358	Deck edge lt.
S6405-74396	171.1	6220-295-2737	Comb. lgt. fixt.
S6201-74397	2456	6625-521-9002	Batt. discharge panel
S6401-74400		6250-033-6651	Lampholder
S6401-74404	2431	MS-17233	Bkt. mtg.
S6202-74411	2402.1	5935-331-9737	Cable assy.
S6402-74415	761	5935-840-6715	Plug
S6402-74420	993	6210-283-0688	Control panel
S6202-74422		All types	Switches
S6401-74426	105	6230-643-3661	Flood lantern
*S6202-74427			Switch box
S6202-74428	731.1	5935-336-5866	Outlet box
S6202-74432	738.1	5935-259-3486	Plug & rec.
S6202-74437	944.1	6110-635-4002	Control panel
S6202-74438	996	5975-296-6608	Outlet
S6202-74439	2452.1	6625-635-4745	Test switchbd.
S6202-74440	612.1	5920-642-9908	Fuse box
S6202-74442		6110-635-3900	Term. box C31A
S6405-74445	312	6230-241-2176	Diving lt.
S6201-74453		No F.S.N.	Dist. units
S6204-74456	1099	5935-086-8922	Recept.
*S6501-74464			Handset holder
S6504-74465	2626	6350-508-0855	Horn
S6405-74470	106	5850-501-1455	Signal lt.
*S6202-74477			Emer. lt. panel

Price on Application

MARINE ELECTRICAL EQUIPMENT BU SHIPS AND MILITARY STANDARDS MODERN METAL MFG. CO., INC.

9000 Series Drawings			
Drawing No.	Sym. No.	Fed. Stock No.	Description
*S6504-74488			Bell
S6202-74489	514	6250-569-9501	Term. box
S6401-74492	285	6230-658-3045	Sta. mkg. box
S6401-74493	335	No F.S.N.	Panel lt.
*S6401-74494			Nav. lt.
815 Series Drawings			
*815-74434			Hand lantern
815-74472	765.2	6150-087-0815	Port. triple outlet
*815-74491			Light. unit
815-1194169		No F.S.N.	Rotary sw.
815-1197000	960	No F.S.N.	Dimmer
*815-1197012			Recept.
815-1197013	410.1	5940-538-7316	Term. box
815-1197014	444	No F.S.N.	Term. box
815-1197015	529	5945-789-0962	Term. box
*815-1197017			Sight lt.
815-1197022	2789	5945-789-0962	Relay box
815-1197025		No F.S.N.	Transmitter
*815-1197026			Rotary sw.
815-1197027	785	5930-519-6233	Push sw.
815-1197031	2790	No F.S.N.	Relay box
815-1197033	2995	6685-733-2261	Temp. ind. panel
815-1197039		No F.S.N.	Relay box
815-1197047	861	No F.S.N.	Exp. proof sw.
815-1197050	969	No F.S.N.	Control panel
815-1197060	2414.2	No F.S.N.	Cable assy.
815-1197060	2415.2	6150-823-2392	Cable assy.
815-1197064	1004	No F.S.N.	Volt. & grnd. resist. panel
815-1197066	915	5999-879-1519	Recept. w/sw.
815-1197067	2455	6110-473-5111	Sw. panel
815-1197074	761.1	5935-840-6715	Plug
815-1197077	2978.1	5805-647-2244	Panel
815-1197085	701.1	5935-678-8520	Conn. plug
815-1197089		MS-17787	Light. fixt.
815-1197099	504.1	5935-879-1532	Term. box
*815-1197105			Oper. room lt.
815-1197112			Navig. lt.
815-1197119	1000	6110-683-0989	Dist. panel
815-1197120	1001	6110-727-1002	Dist. panel
*815-1197124			Dist. panel
*815-1197125			Dist. panel
815-1197127	1098	No F.S.N.	Recept.
815-1197131	2550	6110-950-3058	Control panel
*815-1197148			Power panel
*815-1197200			Side lt.
*815-1197201			Masthd. & range lt.
*815-1197202			Stern lt.
*815-1197213			Recept.
815-1197221	434	5940-080-3931	Term. box
815-1197351	1189	No F.S.N.	Recept.
815-1853041			Stowage box

MS-Series Drawings			
Drawing No.	Sym. No.	Fed. Stock No.	Description
MS-11496		5930-520-6358	Rotary sw.
MS-11569		No F.S.N.	Rotary sw.
MS-16194		6230-542-6027	Bed light
MS-16564			Condenser
MS-16566		6250-284-0481	Lampholder
MS-16567		6250-377-8590	Lampholder
MS-16568		6250-295-2738	Starter
MS-16569		5930-669-8371	Toggle sw.
MS-16570		5930-216-7400	Push sw.
MS-16571		6250-295-2736	Ballast, 20W
MS-16572		6250-295-2735	Ballast, 8W
MS-16585		No F.S.N.	Reflector
MS-16656-2		No F.S.N.	Toggle sw.
*MS-16673			
MS-16712-1		5930-823-0083	Push sw.
MS-16748		6250-153-6481	Lampholder
MS-16749		6250-377-8594	Lampholder
MS-16751		6250-153-6474	Lampholder
MS-16752		6250-033-6651	Lampholder
MS-16753-1		6250-264-6441	Lampholder

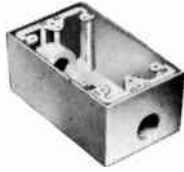
MS-Series Drawings			
Drawing No.	Sym. No.	Fed. Stock No.	Description
MS-16754		6250-153-6477	Lampholder
MS-16756-1		6250-153-6461	Lampholder
MS-16757		6250-179-1797	Lampholder
*MS-16788-1			
MS-16867-1			Globe
MS-16891		All types	Lenses
MS-17001		No F.S.N.	Insulator
MS-17039		5975-808-4063	Stuffing tube
MS-17077		6250-295-2852	Lampholder
*MS-17078-1			Filter
*MS-17079			Shock mounts
MS-17127-1		6230-969-3918	Lens, red
*MS-17128			Globe, clear
*MS-17129			Globe
MS-17140			Lens, ind.
MS-17152		All sizes	Lenses
MS-17153			Lens
MS-17159		95	Cabin lt.
MS-17176	514	6250-569-9501	Term. box
MS-17177	918	No F.S.N.	Sw. & recept.
*MS-17222-1			Light. fixt
*MS-17225			Light. fixt
*MS-17227			Lens
MS-17228		6250-151-4213	Lampholder
*MS-17231			Hand lantern
MS-17233	2432.1	6230-843-5991	Mtg. bkt.
MS-17234		No F.S.N.	Encl.
MS-17268	266.2	6230-883-6209	Light. fixt.
*MS-17274			Sight lt.
MS-17275	310	6210-399-6339	Panel lt.
*MS-17276			Flood lt.
MS-17287	285	6230-658-3045	Sta. mkg. box
MS-17288	66.2	6210-299-7702	Light. fixt.
MS-17289	164	6220-723-5326	Signal lt.
MS-17290			Navig. lt.
*MS-17308			Exp. lt.
MS-17315	215	6230-399-6337	Polar lt.
MS-17316	137	6210-152-2844	Psychiatric ward lt.
MS-17317	23.1	6210-151-9844	Ammunition hoist lt.
MS-17318	195.1	6220-500-1180	Steering lt.
MS-17338	300.2	6230-889-1559	Flood lt.
*MS-17374			Globe assy.
MS-17402		6150-571-2635	Plug
MS-17780	200.2	6220-995-8740	Wake lt.
*MS-17782			Panel lt.
MS-17783	302.2	6230-548-0199	Ext. lt.
MS-17784	407.1	6250-335-3382	Resistor box
MS-17785	159.1	6210-548-0092	Boiler lt.
MS-17786	161.3	6220-050-6743	Anchor & boom lt.
*MS-17787-1			Light. fixt.
*MS-17788			Side lt.
*MS-17789			Masthd. & range lt.
*MS-17790			Stern lt.
*MS-17791			Plug
*MS-17802			Globe
*MS-17847			Navig. lt.
MS-17848		No F.S.N.	Encl. 5"
MS-17850	960	No F.S.N.	Dimmer
MS-17853		All types	Lenses
MS-17995	216.1	6220-028-3964	Polarity lt.
MS-18030	94.1	6210-548-0381	Lt. fixt. 200W
*MS-18031			Lt. fixt. 100W
MS-19104	315	6230-842-5582	Ext. lt.-expl.
MS-19106	106.1	5850-501-1455	Signal lt.
MS-24371			Sw. boots
MS-25100			Toggle sws.
MS-35058			Toggle sws.
MS-35059			Toggle sws.
MIL-F-21346			Fuse clip
MIL-L-1130			Lantern
MIL-L-2034B			Oper. rm. lt.
MIL-L-2161			Multi. sig. lt.
MIL-L-16377-C			Expl. prf. lt.
MIL-L-26764			Flood lt.
MIL-T-2867B			Resist. temp. detec.

*All types and symbol numbers available.

Price on Application

BELL WIRING DEVICES

MOISTUREPROOF, CAST ALUMINUM BELL BOXES



No. 250
Standard

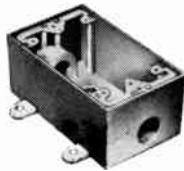


No. 270
Universal

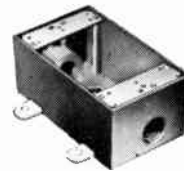
Rugged, all-purpose junction box; new design allows 20% more wiring room. Easy entrance, ends or back, through threaded internal hubs. Size: 2 3/4" x 4 1/2" x 2" deep. Std. Box for Bell Weatherproof covers, all devices; Univ. Box for all covers; provides superior device mtg. Ctn. 1, std. pkg. 50.

No. Outlets	Std. Bell Boxes		Univ. Bell Boxes	
	Cat. No.	Per 100	Cat. No.	Per 100
Two 1/2"	247	\$101.25	278	\$116.25
Three 1/2"	250	108.75	270	123.25
Four 1/2"	251	138.75	271	153.75
Five 1/2"	249	168.75	272	183.75
Two 3/4"	248	116.25	279	131.25
Three 3/4"	252	123.75	273	138.75
Four 3/4"	253	176.25	274	191.25
Five 3/4"	254	213.75	275	228.75

LUG-TYPE BELL BOXES



No. 250-L
Standard



No. 270-L
Universal

Same rugged, die-cast boxes as above but with adjustable, detachable, surface-mounting lugs. Lugs also act as spacers to prevent moisture accumulation at back. Mounts in any of 8 different lug positions. Ctn. 1, std. pkg. 50.

No. Outlets	Std. Lug Boxes		Univ. Lug Boxes	
	Cat. No.	Per 100	Cat. No.	Per 100
Two 1/2"	247-L	\$108.75	278-L	\$116.25
Three 1/2"	250-L	116.25	270-L	123.75
Four 1/2"	251-L	146.25	271-L	153.75
Five 1/2"	249-L	176.25	272-L	183.75
Two 3/4"	248-L	123.75	279-L	131.25
Three 3/4"	252-L	131.25	273-L	138.75
Four 3/4"	253-L	183.75	274-L	191.25
Five 3/4"	254-L	221.25	275-L	228.75



TWO-GANG MOISTURE-PROOF BELL BOXES

Rugged, Cast Aluminum
"Universal" Style

The ideal junction box. Posts accept most std. covers, plates; seats all devices firmly without rocking. Heavy walls, threaded screw holes, hubs. Size: 4 1/2" x 4 1/2" x 2" deep. Ctn. 1, std. pkg. 10.

No. Outlets	Cat. No.	Per 100	No. Outlets	Cat. No.	Per 100
Three 1/2"	276-3	\$202.50	Three 3/4"	277-3	\$210.00
Four 1/2"	276-4	247.50	Four 3/4"	277-4	277.50
Five 1/2"	276-5	277.50	Five 3/4"	277-5	307.50
Six 1/2"	276-6	307.50	Six 3/4"	277-6	337.50
Seven 1/2"	276-7	337.50	Seven 3/4"	277-7	367.50

WEATHERPROOF SAF-T-LOCK COVERS, DEVICES



No. 245



No. 224-V



No. 223-V



No. 360

Snap cover locks in open position for easy, one-hand insertion of plug; cover closes weathertight with just a touch. For outdoor, indoor use. Plate is .040 solid brass, cover is cast metal—both aluminum finished. All parts rustproof. Complete with rubber weatherproof mat, gasket, mtg. screws. Ctn. 1, std. pkg. 50.

Cat. No.	Description	Per 100
245	Cover only, for Duplex Recp.	\$142.50
243-G	Cover, Duplex Grnd. Recp.	187.50
224-V	Cover only, for Single Recp. or switch	105.00
224-H	Same as above only horizontal	105.00
224-VG	Cover, Single Grnd. Recp.	165.00
210-HG	Same as above only horizontal	165.00

Tamperproof Type Can Be Padlocked

223-V*	Cover only, for Duplex Recp.	\$142.50
220-V*	Cover, Duplex Grnd. Recp.	187.50
223-2-V*	2-gang Cover only	307.50
223-3-V*	3-gang Cover only	442.50
*Add suffix "Lock" for small heavy duty padlock		90.00

Power Outlet Cover With Cast Plate

360	Cover only, for Pwr. Outlet Recp. or any switch	\$247.50
*If padlock desired, order from above listing.		

Weatherproof Blank Covers

240-BR	1-gang, .040 brass	\$52.50
240-AL	1-gang, .040 alum.	37.50
236	2-gang, .040 brass	85.00

WEATHERPROOF FLUSH SWITCHES



One-piece die-cast lever and .040 solid brass plate, both finished in aluminum enamel. Switch is "T" rated (5A, 250V — 10A, 125V) and is available S.P., D.P., 3-way and 4-way as listed. Ctn. 1, std. pk. one-gang, 50; two-gang, 10.

Cat. No.	Description	Per 100
216	1-gang, S.P. switch	\$135.00
216-20	1-gang, S.P. switch (20A)	205.50
217	1-gang, D.P. switch	202.50
217-20	1-gang, D.P. switch (20A)	273.50
218	1-gang, 3-way switch	157.50
218-20	1-gang, 3-way switch (20A)	240.00
218-4	1-gang, 4-way switch	341.25
232	2-gang, two S.P. switches	270.00
232-2W	2-gang, two 3-way switches	322.50

All Weatherproof Devices, Boxes available in new Marine Green finish at no extra cost. Add "3" in front of Cat. Nos. to get "Marine Green."

BURNDY ELECTRICAL CONNECTORS

QIKLUG® — TYPE QA-B



A heavy duty terminal for rapid termination of wires and cables. The QIKLUG accommodates a range of cable sizes, and is supplied with one, two or more holes in the terminal tongue. Also furnished with tongues and drilling to order.

Cat. No.	Cable Size	No. Holes in Contact Pad	Shpg. Wt. Lbs. Per 100
QA8C-B	14 Sol. to 8 Str.	1	8
QA8C-2B	14 Sol. to 8 Str.	2	10
QA4C-B	8 Str. to 4 Str.	1	9
QA4C-2B	8 Str. to 4 Str.	2	10
QA1C-B	4 Str. to 1 Str.	1	13
QA1C-2B	4 Str. to 1 Str.	2	16
QA26-B	1/0 Str. to 2/0 Str.	1	23
QA26-2B	1/0 Str. to 2/0 Str.	2	28
QA28-B	3/0 Str. to 4/0 Str.	1	28
QA28-2B	3/0 Str. to 4/0 Str.	2	34
QA31-B	250 Mcm to 350 Mcm	1	53
QA31-2B	250 Mcm to 350 Mcm	2	60
QA34-B	400 Mcm to 500 Mcm	1	82
QA34-2B	400 Mcm to 500 Mcm	2	84
QA40-B	600 Mcm to 800 Mcm	1	130
QA40-2B	600 Mcm to 800 Mcm	2	140
QA44-B	850 Mcm to 1000 Mcm	1	170
QA44-2B	850 Mcm to 1000 Mcm	2	170

Carton Quantity Per 100			
QA8C-B	\$84.98	QA26-B	\$232.74
QA8C-2B	158.90	QA26-2B	274.52
QA4C-B	104.83	QA28-B	317.93
QA4C-2B	166.05	QA28-2B	361.19
QA1C-B	148.16	QA31-B	533.18
QA1C-2B	191.63	QA31-2B	622.42
QA34-B	\$615.87	QA34-2B	699.03
QA40-B	1056.51	QA40-2B	1177.34
QA44-B	1228.37	QA44-2B	1364.45

In addition to the terminals listed, many variations of the QIKLUG are available — terminals designed for multiple cable accommodation, unusual tongue angles and drilling. When ordering specify conductor, tongue dimensions and drilling.

SCRULUG® — TYPE KPA



For low cost indoor terminal connections. Installed with screwdriver or pliers. Compact construction, especially useful on panelboards, in fuse boxes, safety switches, etc.

KA-LUG® — TYPE KA



For copper cable to flat. Features one hole tongue, range taking clamping element, and easy installation with Allen wrench. Compact design provides for easy terminating at service switch, terminal block, etc., where space and economics are important.

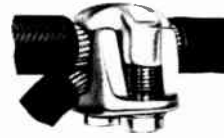
KA-LUG — TYPE KA-A

For copper or aluminum cable to flat. Features one hold tongue, range taking clamping element and easy installation with common wrench. Pre-filled with Penetrox joint compound and sealed. Compact design provides for easy terminating at service switches, etc.



Price on Application

OKLIP® — TYPE KVS



Cat. No.	Conductor Range	Shpg. Wt. Lbs. Per 100
KVS26	Two 2/0 Str. cables max.	44
KVS28	Two 4/0 Str. cables max.	66
KVS31	Two 350 Mcm cables max.	110
KVS34	Two 500 Mcm cables max.	130
KVS40	Two 800 Mcm cables max.	220
KVS44	Two 1000 Mcm cables max.	330

Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
KVS26	\$102.10	KVS31	\$316.65	KVS40	\$503.30
KVS28	161.85	KVS34	369.35	KVS44	710.65

OKLIP — TYPE KVSU



A tin-plated, copper alloy Oklip with spacer. Accommodates at least two maximum conductors of copper, Copper-weld, aluminum, steel or combination of these conductors.

GROUND CONNECTOR — TYPE GAR



Double-purpose ground connector— joins ground bus to rod or pipe either parallel or at right angles. Easily installed by tightening two nuts on U-bolt.

Accommodates wide range of cable.

Cat. No.	Driven		Conductor Range		Shpg. Wt. Lbs. Per 100
	Rod Size	Pipe (IPS)	Min.	Max.	
GAR644C	3/4" or 1"	3/4"	#8 Sol.	#4 Str.	75
GAR6426	3/4" or 1"	3/4"	4 Sol.	2/0 Str.	50
GAR6429	3/4" or 1"	3/4"	2/0 Sol.	250 Mcm.	100
GAR6434	3/4" or 1"	3/4"	300 Mcm.	500 Mcm.	180
GAR144C	3/4" or 1"	1/2" or 3/4"	8 Sol.	4 Str.	50
GAR1426	3/4" or 1"	1/2" or 3/4"	4 Sol.	2/0 Str.	75
GAR1429	3/4" or 1"	1/2" or 3/4"	2/0 Sol.	250 Mcm.	100
GAR1434	3/4" or 1"	1/2" or 3/4"	300 Mcm.	500 Mcm.	200
GAR154C		1"	8 Sol.	4 Str.	75
GAR1526		1"	4 Sol.	2/0 Str.	75
GAR1529		1"	2/0 Sol.	250 Mcm.	100
GAR164C		1 1/4"	8 Sol.	4 Str.	75
GAR1626		1 1/4"	4 Sol.	2/0 Str.	100
GAR1629		1 1/4"	2/0 Sol.	250 Mcm.	130
GAR1634		1 1/4"	300 Mcm.	500 Mcm.	230
GAR174C		1 1/2"	8 Sol.	4 Str.	100
GAR1726		1 1/2"	4 Sol.	2/0 Str.	100
GAR1729		1 1/2"	2/0 Sol.	250 Mcm.	130
GAR184C		2"	8 Sol.	4 Str.	100
GAR1826		2"	4 Sol.	2/0 Str.	130
GAR1829		2"	2/0 Sol.	250 Mcm.	150
GAR1834		2"	300 Mcm.	500 Mcm.	280
GAR194C		2 1/2"	8 Sol.	4 Str.	130
GAR1926		2 1/2"	4 Sol.	2/0 Str.	150
GAR1929		2 1/2"	2/0 Sol.	250 Mcm.	180
GAR204C		3"	8 Sol.	4 Str.	150
GAR2026		3"	4 Sol.	2/0 Str.	180
GAR2029		3"	2/0 Sol.	250 Mcm.	200
GAR2126		3 1/2"	4 Sol.	2/0 Str.	200
GAR224C		4"	8 Sol.	4 Str.	200
GAR2226		4"	4 Sol.	2/0 Str.	230
GAR2229		4"	2/0 Sol.	250 Mcm.	250

Price on Application

BURNDY HYDENT® CONNECTORS



HYLUG®

Type YA-L

Cat. No.	Conductor Sizes Commercial AWG	Screw Sizes	Quantity	
			Ctn.	Pkg.
Installed With Hytool No. MR4C, MY29-3 Or Y34A				
YA6C-L	#6 Str.	1/4	50	500
YA6C-L3	#6 Str.	1/8	50	500
YA4C-L	#4 Str.	1/4	50	500
YA4C-L4	#4 Str.	3/8	50	500
Installed With Hytool No. MY29-3 Or Y34A				
YA2C-L2	#2 Str.	1/4	25	250
YA2C-L	#2 Str.	1/8	25	250
YA2C-L4	#2 Str.	3/8	25	250
YA1C-L	#1 Str.	1/8	10	100
YA25-L	1/0 Str.	1/8	10	100
YA25-L4	1/0 Str.	3/8	10	100
YA26-L	2/0 Str.	3/8	10	100
YA27-L4	3/0 Str.	3/8	10	100
YA28-L4	4/0 Str.	3/8	10	100
YA29-L	250 Mcm.	1/2	10	100
Installed With Hytool No. Y34A				
YA30-L	300 Mcm.	1/2	10	100
YA31-L	350 Mcm.	1/2	10	100
YA32-L	400 Mcm.	5/8	10	100
YA34-L	500 Mcm.	5/8	10	100

Carton Quantity Per 100			
YA6C-L	\$14.75	YA2C-L4	\$37.70
YA6C-L3	14.75	YA1C-L	40.25
YA4C-L	19.60	YA25-L	42.45
YA4C-L4	19.60	YA25-L4	42.45
YA2C-L2	37.70	YA26-L	49.80
YA2C-L	37.70	YA27-L4	59.10
		YA28-L4	\$67.20
		YA29-L	78.20
		YA30-L	90.75
		YA31-L	94.50
		YA32-L	111.50
		YA34-L	135.80

HYLINK

Type YS-L



Cat. No.	Conductor Sizes Commercial AWG	Quantity		Ctn. Qty. Per 100
		Ctn.	Pkg.	
Installed With Hytool No. MR4C, MY29-3 Or Y34A				
YS6C-L	#6 Str.	50	500	\$33.50
YS4C-L	#4 Str.	50	500	39.90
Installed With Hytool No. MY29-3 Or Y34A				
YS2C-L	#2 Str.	25	250	48.35
YS1C-L	#1 Str.	10	100	57.55
YS25-L	1/0 Str.	10	100	63.15
YS26-L	2/0 Str.	10	100	67.20
YS27-L	3/0 Str.	10	100	77.50
YS28-L	4/0 Str.	10	100	84.20
YS29-L	250 Mcm.	6	60	93.70
Installed With Hytool No. Y34A				
YS30-L	300 Mcm.	6	60	106.25
YS31-L	350 Mcm.	6	60	109.95
YS32-L	400 Mcm.	6	60	134.35
YS34-L	500 Mcm.	6	60	166.80

HYLUG

Type YA



Long-barreled connectors for terminating cable sizes from #6 Str. to 2000 Mcm.

The long barrels permit double indentations on sizes above 250 Mcm for added mechanical strength in heavy duty applications.



HYLINK

Type YS

Long-barreled Hylinks for cables from #6 Str. to 2000 Mcm. Cable stops insure proper insertion of cable. Double indentation in each half of the barrel on sizes above 250 Mcm provide mechanical strength for heavy duty applications.

Price on Application

ALUMINUM HYLUG



Type YA-A-TN

Cat. No.	Conductor Aluminum Cable	Screw Sizes	Qty.		Per 100
			Ctn.	Pkg.	
YA12WA-TN	12 Sol.	12	200	2000	\$37.20
YA12A-TN	12 Str.	10	200	2000	37.20
YA10WA-TN	10 Sol.	10	100	1000	40.80
YA10A-TN	10 Str.	10	100	1000	40.80
YA8CA-TN	8 Str.	1/4	100	1000	44.50
YA6CA-TN	6 Str.	1/4	50	500	56.55
YA4CA-TN	4 Str.	1/8	50	500	59.50
YA2CA-TN	2 Str.	3/8	25	250	69.70
YA1CA-TN	1 Str.	3/8	10	100	86.90
YA25A-TN	1/0 Str.	3/8	10	100	96.40
YA26A-TN	2/0 Str.	1/2	10	100	127.10
YA27A-TN	3/0 Str.	1/2	10	100	172.35
YA28A-TN	4/0 Str.	1/2	10	100	198.65
YA29A-TN	250 Mcm	1/2	10	100	206.00
YA30A-TN	300 Mcm	5/8	10	100	227.90
YA25A-2TN	1/0 Str.	3/8	10	100	118.35
YA26A-2NTN	2/0 Str.	1/2	10	100	176.75
YA27A-2NTN	3/0 Str.	1/2	10	100	220.60
YA28A-2NTN	4/0 Str.	1/2	10	100	235.25
YA29A-2NTN	250 Mcm	1/2	10	100	239.55
YA30A-2NTN	300 Mcm	1/2	10	100	248.35
YA31A-2NTN	350 Mcm	1/2	10	100	254.20
YA32A-2NTN	400 Mcm	1/2	10	100	353.55
YA34A-2NTN	500 Mcm	1/2	10	100	506.95
YA36A-2NTN	600 Mcm	1/2	6	60	542.00
YA39A-2NTN	750 Mcm	1/2	6	60	558.00
YA40A-2NTN	800 Mcm	1/2	6	60	569.75
YA44A-2NTN	1000 Mcm	1/2	6	60	854.60
YA46A-2NTN	1500 Mcm	1/2	6	60	1537.10
YA48A-2NTN	2000 Mcm	1/2	3	30	1980.95

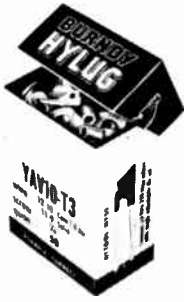
ALUMINUM HYLINK

Type YS-A



Cat. No.	Conductor Aluminum Cable	Qty.		Per 100
		Ctn.	Pkg.	
YS12WAG1	12 Sol.	200	2000	\$ 15.40
YS12AG1	12 Str.	200	2000	15.40
YS10WAG1	10 Sol.	100	1000	16.70
YS10AG2	10 Str.	100	1000	16.70
YS8CAG2	8 Str.	100	1000	49.65
YS6CAG1	6 Str.	50	500	59.50
YS4CAG2	4 Str.	50	500	62.85
YS2CA	2 Str.	25	250	97.15
YS1CA	1 Str.	10	100	133.00
YS25A	1/0 Str.	10	100	168.00
YS26A	2/0 Str.	10	100	178.25
YS27A	3/0 Str.	10	100	206.00
YS28A	4/0 Str.	10	100	219.15
YS29A	250 Mcm	10	100	229.40
YS30A	300 Mcm	10	100	242.50
YS31A	350 Mcm	10	100	254.20
YS32A	400 Mcm	10	100	331.65
YS34A	500 Mcm	10	100	413.45
YS36A	600 Mcm	6	60	594.55
YS39A	750 Mcm	6	60	610.65
YS40A	800 Mcm	6	60	758.20
YS44A	1000 Mcm	6	60	810.75
YS46A	1500 Mcm	3	30	1201.50
YS48A	2000 Mcm	3	30	1612.85

BURNDY HYDENT® CONNECTORS



Made of one-piece pure copper, tin plated for additional protection against corrosion and installed with compression type tooling.

Packed in new flip-top boxes, easy to open, handy to use, factory sealed. Wire, connector and stud sizes clearly marked on every box. Separate color coded boxes for Hy-lugs and Hylinks. Available in flip-top boxes for sizes No. 22 thru No. 8; sturdy corrugated boxes thru 2000 Mem.

HYLUG®

Type YAV



Cat. No.	Conductor Sizes Commercial AWG	Screw Sizes	Quantity		
			Ctn.	Pkg.	
Installed With Hytool No. Y10M Or Y14MV					
YAV18-T5	#22-#18 Sol.	4-6	100	500	
YAV18	#22-#18 Str.	8-10	100	500	
YAV14-T5	#20-#12 Sol.	4-6	100	1000	
YAV14		8-10	100	1000	
YAV14-T2	#20-#14 Str.	1/4	100	1000	
YAV10-T7	#11-# 9 Sol.	4-6	50	500	
YAV10		8-10	50	500	
YAV10-T3	#12-#10 Str.	1/4	50	500	
YAV10-T2	#8 Str.	5/8	50	500	
YAV10-T4		3/4	50	500	
YAV8C-L		8-10	50	250	
YAV8C-L1	#8 Str.	1/4	50	250	
YAV8C-L2		5/8	50	250	
YAV8C-L3		3/4	50	250	
Installed With Hytool No. MR4C, MY29-3 Or Y34A					
YAV18-T5	\$3.68	YAV10-T7	\$5.36	YAV8C-L	\$13.68
YAV18	3.68	YAV10	5.36	YAV8C-L1	13.68
YAV14-T5	3.68	YAV10-T3	5.92	YAV8C-L2	13.68
YAV14	3.68	YAV10-T2	5.92	YAV8C-L3	13.68
YAV14-T2	4.96	YAV10-T4	5.92		

SPADE TYPE HYLUG

Type YAV-T-F



Cat. No.	Conductor Sizes Commercial AWG	Screw Sizes	Ctn. Qty.	
			Ctn.	Per 100
Installed With Hytool No. Y10M Or Y14MV				
YAV14-T32F	#20-#12 Sol.	4-6	100	\$3.68
YAV14-T34F	#20-#14 Str.	8-10	100	3.68
YAV10-T21F	#11-# 9 Sol.	8-10	50	5.36
YAV10-T23F	#12-#10 Str.	1/4	50	5.92

Std. pkg. 1000, except Nos. YAV10-T21F and YAV10-T23F is 500.



INSULATION GRIP HYLUG

Type YAD-H and YAV-H

Cat. No.	Conductor Sizes Commercial AWG	Screw Sizes	Ctn. Qty.	
			Ctn.	Per 100
Installed With Hytool No. Y10M Or Y14MV				
YAD14-H5	#20-#12 Sol.	4-6	100	\$4.72
YAV14-H	#20-#14 Str.	8-10	100	4.72
YAV14-H2	#11-# 9 Sol.	1/4	100	5.28
		#12-#10 Str.		

Std. pkg. 1000.



FLAG TYPE HYLUG

Type YBV

Cat. No.	Conductor Sizes Commercial AWG	Screw Sizes	Ctn. Qty.	
			Ctn.	Per 100
Installed With Hytool No. Y14MF				
YBV14-T1	#20-#12 Sol.	4-6	100	\$4.96
YBV14-T3	#20-#14 Str.	6-8	100	4.96
YBV14	#11-# 9 Sol.	8-10	100	4.96
		#12-#10 Str.	8-10	100	6.40

Std. pkg. 1000.

BURNDY CONNECTORS

INSULUG® TYPE YAE, YAEV and YAE-Z

For No. 22 to 2/0 Commercial, Aircraft and Solid Conductors

Nylon-insulated compression terminal of one-piece tinned-copper construction. Can be indented through insulation. Insulation resists abrasion and solvents, withstands temperatures up to 400° F.



Cat. No.	Copper Cond. Coml. O.W.G. & Aircraft AN	Solid Wire AWG	For Use On Screw Sizes	Ctn. Qty.
				Per 100
YAE18-G43	22-16	4, 5 or 6	\$7.68
YAE18-N1			6, 7 or 8	
YAE18-N			8, 9 or 10	
YAE18-N2	22-16	1/4	8.80
YAE18-N3			5/16	
YAE14-N43	16-14	4, 5 or 6	7.68
YAE14-N1			6, 7 or 8	
YAE14-N			8, 9 or 10	
YAE14-N2	16-14	1/4	8.80
YAE14-N3			5/16	
YAE14-N4			3/8	
YAEV10-T7	12-10	4, 5 or 6	11.04
YAEV10-T11			6, 7 or 8	
YAEV10			8, 9 or 10	
YAEV10-T3			1/4	
YAEV10-T2	8	5/8	24.70
YAEV10-T4			3/8	
YAEV8C-L	8	8, 9 or 10	24.70
YAEV8C-L1			1/4	
YAEV8C-L2			5/8	
YAEV8C-L3			3/4	
YAEV8C-L4			1/2	
YAE18-Z1	22-16	2	7.68
YAE18-Z2			4, 5 or 6	
YAE18-Z3			6, 7 or 8	
YAE18-Z4			8, 9 or 10	
YAE14-Z2	16-14	4, 5 or 6	7.68
YAE14-Z3			6, 7 or 8	
YAE14-Z4			8, 9 or 10	

HYLINK®

Type YSV

Cat. No.	Conductor Sizes Commercial AWG	Ctn.	Ctn. Qty.
			Per 100
Installed With Hytool No. Y10M Or Y14MV			
YSV18	#22-#18 Sol.	#22-#18 Str.	100 \$4.56
YSV14	#20-#12 Sol.	#20-#14 Str.	100 4.56
YSV10	#11-# 9 Sol.	#12-#10 Str.	50 6.32
Installed With Hytool No. MR4C Or MY29-3			
YSV8C-L	#8 Str.		50 14.32

Std. pkg. 1000, except No. YSV8C-L and YSV10 are 500.

INSULINK® — TYPE YSE

For No. 22 to No. 9 Commercial Aircraft and Solid Conductors

Nylon-insulated compression link of one-piece tinned-copper construction, for splicing wire or cable end-to-end. Can be indented through the insulation. Insulation resists abrasion and solvents, withstands temperatures up to 400° F.

Cat. No.	Copper Cond. Coml. O.W.G. & Aircraft AN	Solid Wire AWG	For Use On Screw Sizes	Ctn. Qty.
				Per 100
YSE18-H	22-18	.....	.....	\$12.90
YSE14-H	20-14	.....	.....	13.50
YSE10	12-10	.....	.....	15.70

All above unit qty. 100; std. pkg. 1000.

T & B STA-KON® TERMINALS



A—Size U.L. Listed for No. 18 Wire,
B—Size for No. 18-14 Wire

**Standard Series—For use with Stock Tool
No. WT-100M or No. WT-111M**

Cat. No.	Wire Range	Bolt Hole	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
A18-4	22-18	4	500	2	\$2.30
A18-6		6	1000	2	2.30
A18-8		8	1000	2	2.30
A18-10		10	5000	2	2.30
A18-14		1/4	500	2	3.10
B14-4	20-14	4	500	2	2.30
B14-6		6	2000	2	2.30
B14-8		8	2000	3	2.30
B14-10		10	5000	3	2.30
B14-14		1/4	500	6	3.10
C10-6	16-10	6	500	4	3.35
C10-8		8	1000	5	3.35
C10-10		10	5000	5	3.35
C10-14		1/4	1000	7	3.70
C10-516		5/8	500	8	3.70
C10-38		3/4	500	7	3.70

**Standard Series — For Use with Stock Tool
No. WT-115**

D8-10	9-8-7	10	500	16	\$8.55
D8-14		1/4	500	14	8.55
D8-516		5/8	500	16	8.55
D8-38		3/4	500	14	8.55
E6-10	6-5	10	200	17	9.60
E6-14		1/4	200	20	9.60
E6-516		5/8	200	20	9.60
E6-38		3/8	200	20	9.60
F4-10	4-3	10	200	24	12.70
F4-14		1/4	200	25	12.70
F4-516		5/8	200	25	12.70
F4-38		3/4	200	25	12.70
G2-14	2	1/4	100	50	24.25
G2-516		5/8	100	50	24.25
G2-38		3/4	100	50	24.25

STA-KON® SPADE TONGUE TERMINALS



UL Listing—AWG
B Size #20-#14 Str. #20-#16
Sol. C Size #16-#10.
Install with WT-100M or
WT-111M Tool.

Cat. No.	Wire Range	Bolt Hole	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
B14-6F	20-16	6	2000	6	\$2.30
B14-8F		8	2000	6	2.30
B14-10F		10	5000	6	2.30
B14-14F		1/4	500	6	3.10
C10-6F	16-10	6	500	7	3.35
C10-8F		8	500	7	3.35
C10-10F		8	5000	7	3.35
C10-14F		1/4	500	7	3.70

STA-KON FLAG TERMINALS

Non-insulated. Install with WT100M tool.

Cat. No.	Wire Range	Bolt Hole	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
AB14-6A	20-14	#6	500	2 1/2	\$3.25
AB14-8A		#8	500	2 1/2	3.25
AB14-10A		#10	500	2 1/2	3.25
C10-6A	16-10	#6	500	3	4.20
C10-8A		#8	500	5	4.20
C10-10A		#10	500	5	4.20

**NYLON SELF-INSULATED —
INSULATION GRIP**



Ring Tongue Spade Tongue

**Ring Tongue Sta-Kon Terminals
For Use with Stock Tool WT-100M, WT-152
or WT-145A**

Cat. No.	Wire Range	Max. Ins.	Bolt Hole	Std. Pkg.	Per 100	
RA18-4	22-16	.136	4	500	\$4.80	
RA18-6		.136	6	500	4.80	
RA18-8		Red	.136	8	500	4.80
RA18-10		.136	10	2000	4.80	
RA18-14		.136	1/4	500	5.50	
RB14-4	16-14	.162	4	500	4.80	
RB14-6		.162	6	500	4.80	
RB14-8		Blue	.162	8	2000	4.80
RB14-10		.162	10	2000	4.80	
RB14-14		.162	1/4	500	5.50	
RC10-6	12-10	.210	6	500	6.00	
RC10-8		.210	8	500	6.00	
RC10-10		.210	10	2000	6.00	
RC10-14		Yellow	.210	1/4	500	6.60
RC10-516		.210	5/8	500	6.60	
RC10-38		.210	3/8	500	6.60	

Spade Tongue Sta-Kon Terminals

RA18-6F	22-16	.136	6	2000	\$4.80	
RA18-8F		.136	8	500	4.80	
RA18-10F		Red	.136	10	500	4.80
RA18-14F		.136	1/4	500	5.50	
RB14-6F	16-14	.162	6	2000	4.80	
RB14-8F		Blue	.162	8	500	4.80
RB14-10F		.162	10	2000	4.80	
RB14-14F		.162	1/4	500	5.50	
RC10-6F	12-10	.210	6	500	6.00	
RC10-8F		.210	8	500	6.00	
RC10-10F		Yellow	.210	10	2000	6.00
RC10-14F		.210	14	500	6.60	

**T & B STA-KON® TOOLS
STA-KON® HAND TOOLS**



Stakes insulated and bare Sta-Kon terminals, splices and wire joints. Cuts bolts up thru #10 size. Measures bolt lengths. Chases and cleans bolt threads. Cuts wires, stranded and solid. Closes insulation grip ears. Strips stranded and solid wires #22 to #10 sizes.

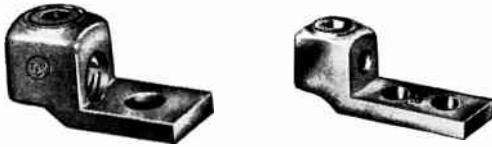
Cat. No.	Installs Terminals For Wire Sizes	Color of Handle	Std. Pkg.	Each
WT-100M	#22—#10	Black	1	\$5.00
WT-110M	A, B, C	Green	1	\$ 6.00
WT-111M	A, B, C, PT	Red	1	4.75
WT-115	D, E, F, G	Black	1	20.00
WT-161	A, B, C, PT, RA, RB, RC	Blue	1	7.00
WT-152	RA, RB, RC and expanded insulation splices	Yellow	1	8.50
WT145A	RA, RB, RC, RZZ, RAA, RBB, RCC		1	*

Price on Application

T & B "LOCK-TITE" LUGS AND CONNECTORS

Listed by Underwriters' Laboratories

LOCK-TITE LUGS



Each lug is one-piece design. Uniform pressure all around provides direct contact and high conductivity. Install with key wrench.

One Bolt Hole Tongue

Cat. No.	Description	Std. Pkg.	Wt. Lbs. per 100	Use Key Wrench Cat. No.	Per 100
31003	14 Sol. to 8 Sol.	100	5	---	\$ 63.70
31005	8 Sol. to 4 Str.	50	7	---	78.80
31007	4 Sol. to 1 Str.	50	12	30	111.00
31009	1 Sol. to 2/0	25	19	30	174.00
31011	2/0 to 4/0	25	33	30	237.00
31013	4/0 to 300	10	53	50	298.00
31015	300 to 500	10	78	50	461.00
31017	500 to 750	5	122	50	788.00
31019	750 to 1000	5	167	50	921.00

NEMA—Two Bolt Hole Tongue

32207	4 Sol. to 1 Str.	50	17	30	\$144.00
32209	1 Sol. to 2/0	25	31	30	205.00
32211	2/0 to 4/0	25	42	30	270.00
32213	4/0 to 300	10	58	50	357.00
32215	300 to 500	10	78	50	524.00
32217	500 to 750	5	139	50	857.00
32219	750 to 1000	5	177	50	1020.00

LOCK-TITE CONNECTORS FOR ALL COPPER CABLES



Cat. No.	Cable Size	Std. Pkg.	Wt. Lbs. Per 100	Per 100
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Double Barrel—2 Bolt Holes

32007-BD	4 Sol. to 1 Str.	10	38	\$322.00
32009-BD	1 Sol. to 2/0	10	75	465.00
32011-BD	2/0 to 4/0	10	111	608.00
32013-BD	4/0 to 300	5	144	811.00
32015-BD	300 to 500	5	212	1180.00

Double Barrel—4 Bolt Holes

32017-BD	500 to 750	2	367	1850.00
32019-BD	750 to 1000	2	411	2325.00

Triple Barrel—2 Bolt Holes

32007-TB	4 Sol. to 1 Str.	10	70	501.00
32009-TB	1 Sol. to 2/0	10	117	723.00
32011-TB	2/0 to 4/0	5	161	945.00
32013-TB	4/0 to 300	5	216	1180.00

Triple Barrel—4 Bolt Holes

32015-TB	300 to 500	2	334	1840.00
32017-TB	500 to 750	2	456	2770.00
32019-TB	750 to 1000	2	533	3575.00

T & B "LOCK-TITE" LUGS AND CONNECTORS

Listed by Underwriters' Laboratories

LOCK-TITE 2-WAY CONNECTORS



Seven connectors splice all cables No. 4 to 1,000,000 CM. Each connector takes a wide range of cable sizes and all types of conductors. Quickly installed with key wrench.

Cat. No.	Cable Size	Std. Pkg.	Wt. Lbs. Per 100	Per 100
32503	14 Sol. to 8 Sol.	50	5	\$138.00
32505	8 to 6 Sol. or Str.	25	11	148.00
32507	4 Sol. to 1 Str.	25	20	162.00
32509	1 Sol. to 2/0	25	33	244.00
32511	2/0 to 4/0	10	58	351.00
32513	4/0 to 300 MCM	10	84	553.00
32515	300 to 500 MCM	5	105	822.00
32517	500 to 750 MCM	5	144	1355.00
32519	750 to 1000 MCM	5	189	1585.00

T & B "LUG-IT" FOR STRANDED OR SOLID WIRE

Listed by Underwriters' Laboratories



Double thickness at thread gives double thread strength and locking action. Serrated copper tongue gives high conductivity. Bronze body provides strength.

Cat. No.	Wire Range Min.	Max.	Bolt Size	Std. Pkg.	Wt. Lbs. Per 100	Per 100
35301	14	6	#10	500	2 1/2	\$13.40
35401	8	2	1/4	250	5	17.40
35501	4	2/0	1/4	100	11	36.10
35601	1/0	4/0	3/8	50	22	81.00

T & B CABLE SLICERS



Cat. No.	O.A. Lgth., In.	Cuts Up To	Wt. Lbs. Each	Std. Pkg.	Each
364A	20 3/4	350 MCM	3	1	\$25.00
366	29 1/4	1000 MCM	8	1	37.50

T & B CABLE INSTALLING KIT

For Bending, Slicing and Stripping Cable

The T & B Cable Installing Kit Contains



No. 366 T & B Cable Slicer — Makes a clean slice in seconds — eliminates dressing. And T & B has designed just the tool for a swift, smooth, even cut. Unique heart-shaped cutting edges gather strands and slice in one easy motion. Slices cable up to 1000 MCM.

No. 21649 T & B Cable Bender — The right tool for each operation takes grunt and groan out of cable handling. Even in the closest quarters this T&B engineered cable bender will perform perfectly and protect cable insulation. Bends cable up to 750MCM.

No. 368 T & B Stripper — The new, safe way to strip cable. Peels insulation away without touching conductor strands. Calibrated wire size settings permit precise adjustment to cable size. Strips cable from #1 to 1000MCM.

Kit comes complete in rugged steel carrying case.

No. 21649 Cable Bender	each	\$ 7.50
No. 368 Cable Stripper	each	\$18.00
No. 366 Cable Slicer	each	\$37.50
T & B Cable Installing Kit Complete		\$63.00

T & B COMPRESSION CONNECTORS FOR COPPER CABLE



1-Hole Lug



2-Hole Lug



2-Way Connector

T & B Method connectors offer the fastest, simplest way of making positive electrical connections. Through use of the proper installing tool, pressure is controlled to assure a strong, tight bond without damage to the cable. These lugs and connectors are available for use with code copper, flexible copper, and aluminum cable.

Color-Keyed — U.L. Approved

Cat. No.	Cable Size	1-Hole Lugs		Std. Pkg.	Wt. Lbs. Per 100	Per 100
		Bolt Size	Die			
54104*	8	10		500	1	\$11.85
54105*	6	1/4		500	2	15.70
54106*	4	1/4		500	2	30.15
54107*	2	1/4		250	3	32.25
54108*	1	1/4		200	7	33.90
54109*	1/0	3/8		100	9	39.90
54110*	2/0	3/8		100	11	47.25
54111*	3/0	3/8		100	13	53.80
54112*	4/0	3/8		100	16	62.55
54113*	250	1/2		100	19	72.60
54114*	300	1/2		100	29	89.20
54116*	400	1/2		60	38	108.70
54118*	500	1/2		60	47	

2-Hole Lugs

Cat. No.	Cable Size	Bolt Size	Die	Std. Pkg.	Wt. Lbs. Per 100	Per 100
54205*	6	1/4		500	3	32.25
54206*	4	1/4		500	5	34.40
54207*	2	1/4		250	6	40.70
54208*	1	1/4		200	10	44.90
54255	1/0	3/8		100	14	50.55
54209*	1/0	3/8		100	14	50.55
54210*	2/0	3/8		100	16	52.50
54260*	2/0	1/2		100	14	57.20
54211*	3/0	3/8		100	18	65.55
54265*	3/0	1/2		100	18	70.65
54212*	4/0	3/8		100	20	70.30
54270*	4/0	1/2		100	20	75.85
54213*	250	3/8		100	25	79.10
54275*	250	1/2		100	25	85.10
54214*	300	3/8		100	32	98.00
54280*	300	1/2		100	32	105.00
54215*	350	3/8		100	40	102.15
54282*	350	1/2		100	40	110.00
54216*	400	3/8		60	53	120.45
54218*	500	3/8		60	65	147.70
54286*	500	1/2		60	65	159.00

2-Way Connectors

Cat. No.	Cable Size	Bolt Size	Die	Std. Pkg.	Wt. Lbs. Per 100	Per 100
54505*	6	1/4		500	1	26.80
54506*	4	1/4		500	2	31.90
54507*	2	1/4		250	3	38.70
54508*	1	1/4		200	4	46.05
54509*	1/0	3/8		100	5	50.55
54510*	2/0	3/8		100	6	53.80
54511*	3/0	3/8		100	7	62.05
54512*	4/0	3/8		100	8	67.30
54513*	250	1/2		100	10	75.00
54514*	300	1/2		100	14	85.05
54515*	350	1/2		100	18	87.95
54516*	400	1/2		60	23	107.45
54518*	500	1/2		60	31	133.50

*Color-keyed.

T & B COLOR-KEYED® COMPRESSION TOOLS

For #8 to 500 MCM Copper Conductors
#12 to 350 MCM Aluminum Conductors



No. TBM8
This hand compression tool is useful over a wide range of types and sizes. Furnished with steel carrying case and all necessary installing dies.

Installs: All code copper compression joints and taps — aluminum cables #12 to 350MCM — code copper lugs and connectors from #8 to 500MCM.

No. TBM8 Compression Tool.....each \$99.95

For #8AWG to 250MCM Copper Conductors
#12AWG to 3/0 Aluminum Conductor



No. TBM5
High-strength steel tool, with tubular aluminum handles and forged steel dies.

Complete with steel carrying case, three color-coded dies.

No. TBM5 Compression Tool.....each \$50.00

T & B COLOR-KEYED® COMPRESSION "C" TAPS



FOR CODE COPPER CONDUCTORS

Listed by Underwriters' Laboratories



These one-piece Color-Keyed taps assure positive, all around compression with low resistance and high pull out features. Made of high conductive wrought copper. Installing tool TBM8.

Cat. No.	Installing Die Color	Installs Wire Combinations		Per 100
		Main	Branch	
54710	Blue	10	10	\$11.00
		8	12	
54715	Grey	6	10-12	12.10
		5	8-10	
54720	Brown	4 or 5	8-10-12	14.60
		6	6-8	
54725	Green	3	6-8-10-12	18.50
		4 or 5	6-5	
54730	Pink	2	6-8-10-12	20.85
		3	5	
		4	4	
54735	Black	1	5-6-8-10-12	25.65
		2	4-5	
		3	3-4	
54740	Orange	1/0	4-5-6-8-10-12	30.65
		1	3-4	
		2	2-3	
54745	Purple	2/0	3-4-5-6-8-10-12	34.15
		1/0	2-3	
		1	1-2	
54750	Yellow	3/0	2-3-4-5-6-8-10-12	36.60
		2/0	1-2	
		1/0	1/0-1	

Standard package 100, except No. 54740—50; Nos. 54745 and 54750—25.

T & B TY-RAP® CABLE TIES



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Ties — Self-Locking					
TY-523M	1/8—5/8	100	500	2	\$3.00
*TY-523MX	1/8—5/8	100	500	2	3.30
TY-524M	1/8—1 1/4	100	500	3	3.20
TY-525M	1/8—1 1/4	100	500	4	4.20
*TY-525MX	1/8—1 1/4	100	500	4	4.60
TY-527M	1/8—3 3/4	50	500	14	19.00
*TY-527MX	1/8—3 3/4	50	500	14	21.00
TY-528M	1/8—4	100	500	7	9.50
*TY-528MX	1/8—4	100	500	7	10.60



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Clamps — Self-Locking					
TY-535M	1/8—1 1/4	100	500	5	\$4.80
*TY-535MX	1/8—1 1/4	100	500	5	5.40
TY-537M	1/8—3 3/4	50	500	8	21.60
*TY-537MX	1/8—3 3/4	50	500	8	23.80



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Identification Ties — Self-Locking					
TY-546M	3/8—1 1/4	100	500	4	\$9.60
*TY-546MX	3/8—1 1/4	100	500	4	10.60
†TY-546MD	3/8—1 1/4	100	500	8	21.00



Cat. No.	Dia. Range, In.	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Ties — Twist Type					
TY-503	1/8—5/8	100	500	2	\$2.40
TY-505	1/8—1 1/4	100	500	5	3.50
*TY-505X	1/8—1 1/4	100	500	5	4.00
TY-507	1/8—3 3/4	50	500	14	12.00
*TY-507X	1/8—3 3/4	50	500	14	13.20
TY-508	1/8—4	100	500	6	8.00
*TY-508X	1/8—4	100	500	6	8.00



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Clamps — Twist Type					
TY-513	1/8—5/8	100	500	1	\$3.00
TY-515	1/8—1 1/4	100	500	4	4.00
*TY-515X	1/8—1 1/4	100	500	4	4.40
TY-517	1/8—3 3/4	50	500	16	13.70
*TY-517X	1/8—3 3/4	50	500	16	15.20



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Identification Ties — Twist Type					
TY-542	3/8—1 1/4	100	500	4	\$7.00
*TY-542X	3/8—1 1/4	100	500	4	7.80
†TY-542D	3/8—1 1/4	100	500	8	18.00



Cat. No.	Dia. Range, Inches	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
Ty-Rap Push-In Clamp — Self Locking					
TY-538M	1/8—1 1/4	100	500	5	\$4.80

*For outdoor use.
†Two single identification ties molded together. Provides twice the marking surface.

TY-RAP SHOE HORN

A harnessing aid. Slide shoehorn under wire bundle for faster Ty-Rap installation.



Cat. No.	Std. Pkg.	Wt. Lbs. Each	Per 100
WT-184	1	2	\$1.00

TY-RAP MOUNTING BASES



Cat. No.	Mtg. Hole Size	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
TC-501	2 #10 screws	100	500	4	\$3.00
TC-502	1 #8 screw	100	500	3	2.60
TC-503	2—1/4" screws	100	500	16	12.00
TC-504	1 #5 screw	100	500	2	2.00

TC-503 used with TY-507, TY-517, TY-527M & TY-537M.
TC-504 used with TY-503 & TY-523M.
TC-501 & TC-502 is used with TY-503, TY-505, TY-508, TY-523M, TY-525M, TY-528M, TY-542 & TY-546M.

Knock-In Type



Cat. No.	Used With	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
TC-5116	TY-505, TY-508	100	500	4	\$3.40
TC-5118	TY-525M & TY-528M	100	500	4	3.40
TC-5120	TY-528M	100	500	4	3.40

TY-RAP SADDLE CLAMP



Clamp mounts on tubing or pipe with TY-508, TY-525M, TY-528M. Also use as a bolted clamp (#6 screw).

Cat. No.	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
TC-592	100	500	4	\$38.30

TY-RAP RINGS

For temporary harnessing. Used with mounting bases.



Cat. No.	Dia. Range, In.	Used With	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
TC-555	1 1/2	TC-501	10	100	3	\$25.00
TC-556	2 1/2	TC-503	10	100	7	35.00

TY-RAP MARKING PENS

Use on identification ties.

Cat. No.	Color Ink	Std. Pkg.	Wt. Lbs. Each	Per 100
WT-163-1	Black	1	.2	\$3.50
WT-163-3	Red	1	.2	3.50

TY-RAP INSTALLING TOOLS



Cat. No.	Use for Ty-Rap Cat. No.	Each
WT-183F	TY-505 TY-515 TY-508 TY-542	\$20.00
WT-185F	TY-503 TY-513	20.00
WT-186F	TY-507 TY-517	20.00
WT-196F	TY-527M	20.00
WT-195F	TY-523M TY-525M TY-528M TY-535M TY-546M	20.00
WT-199	TY-523M TY-525M TY-528M TY-535M TY-546M	*

*Price on application.

SELF-LOCKING TY-RAP TIES

Designed for rugged field and shop applications. A stainless steel tooth mounted in the eye locks the tie at any desired diameter. Installation is quick — simply slip Ty-Rap around bundle, thread tip through eye, draw tight and cut off.

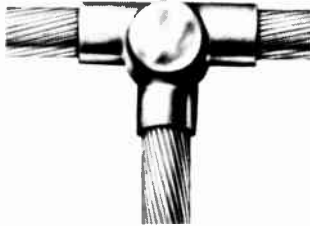
All of the Self-Locking Ty-Rap ties exceed the minimum pull-out strength requirements specified in MIL-S-23190A(WEP). No tools are needed to install the self-locking ties. However, additional speed and convenience can be gained by using an appropriate Ty-Rap tool when installing large quantities of ties.

TWIST-LOCKING TY-RAP TIES

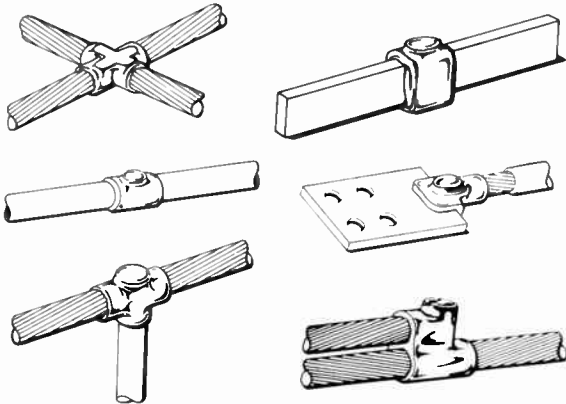
Available in a variety of colors for coding purposes. Specially designed convex ribs keep ties in place on cable preventing lateral movement.

BURNDY ELECTRICAL CONNECTORS

THERMOWELD



THERMOWELD welds a perfect, permanent electrical connection—to any copper cable, bus or steel structure, etc. Wide range of splices, taps, terminals, ground connections are made without external source of power.



THERMOMOLD

THERMOMOLD is the lightweight graphite mold that holds conductors in position and controls THERMOMOLD reaction that produces weld. Sizes available for making a wide variety of welded connections.



THERMOCHANGE CLAMPS



THERMOCHANGE clamps are made in two sizes 3" x 3" and 4" x 4" molds. They fit practically all standard THERMOWELDS and are convenient and easy to use.

THERMOWELD CARTRIDGES

Plastic cartridges have moisture tight caps. Sealed polyethylene envelope with moisture absorbing silicagel packet keeps powder perfectly dry. Starting powder won't mix with welding charge, even if cartridges are shipped or stored upside down—full starting charge assures positive ignition of welding powder.



BURNDY HYTOOL®

FOR INSTALLING HYDENT® CONNECTORS



No. Y10M

This light-weight hand tool installs a wide variety of Hydent connectors on wire sizes #22 thru #10. A wire cutter and single indenter die for all wire sizes are in the nose of the tool. Other features are wire strippers, bolt cutter, thread chasers and dies for closing insulation-grips.

No. Y10M Hytooleach \$5.00

No. MR4C



A compact ratchet-action hand Hytool for installing Hydent connectors on conductors No. 4, 6 and 8. Spring action of the jaw holds cable and terminal assembly in place, permitting use of both hands for the indenting operation.

No. MR4C Hytooleach \$41.40



No. MY29-3

This rugged "all around" contractor hand tool features one easily adjusted die set that installs Hydent connectors on commercial copper cable from #8—250 Mcm and aluminum building wire #8—4/0. No dies to install, change, identify or lose. Available with insulated handles.

No. MY29-3 Hytooleach \$50.00
No. MY29-3C Hytool (with insulated handles)each 64.50

BURNDY HYPRESS® HYDRAULIC TOOL FOR INSTALLING HYDENT CONNECTORS

No. Y34A



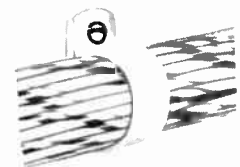
Portable, manually operated, completely insulated, hydraulic Hypress for installing Hydent connectors on #6 Str. thru 500 Mcm. cable. Weighs only 9 lbs.; develops 18,000 lbs. Supplied with convenient metal carrying case.

No. Y34A Hypresseach \$183.00

BURNDY MOLDED NYLON CABLE HANGERS

NYCLOLIP® — TYPE HP-N

Nyloclips weigh only 30% as much as comparable metal clips. Flexibility makes them easy to install. Smooth, non-abrasive surfaces with rounded edges protect cable insulations. Nyloclips are molded — require no shaping or forming on job. High tensile strength for maximum support; retain shape permanently. Temperature resistant from —60°F to 250°F for sustained periods, these nylon cable hangers are also unaffected by oils, gasoline, alcohol or hydraulic fluids, including noninflammable types. Cannot cause grounds or shorts, and are free from hysteresis losses.

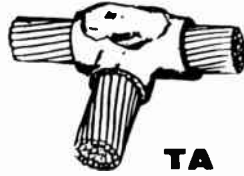


Price on Application

CADWELD ELECTRICAL CONNECTIONS



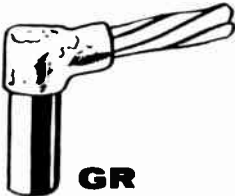
SS



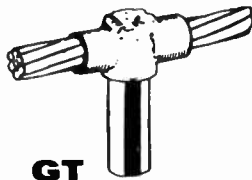
TA

Run	Tap	Mold	Cart	Price Key
1/0		SSC-2C	45	C
2/0		SSC-2G	65	C
4/0		SSC-2Q	90	C
250 MCM		SSC-2V	90	C
1/0	#4	TAC-2C1L	45	C
2/0	#2	TAC-2G1V	45	C
4/0	1/0	TAC-2Q2C	90	C
250 MCM	1/0	TAC-2V2C	90	C

GROUND ROD



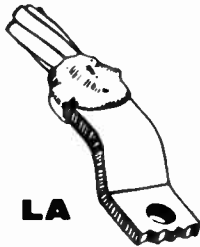
GR



GT

Size In.	Conductor	Mold	Cart.	Price Key
5/8	2/0	GRC-162G	90	C
5/8	4/0	GRC-162Q	90	C
3/4	2/0	GRC-182G	90	C
3/4	4/0	GRC-182Q	90	C
5/8	2/0	GTC-162G	115	C
5/8	4/0	GRC-162Q	115	C
3/4	2/0	GRC-182G	115	C
3/4	4/0	GRC-182Q	115	C

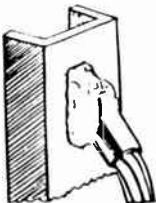
BUS BAR



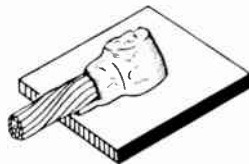
LA

Size In.	Conductor	Mold	Cart.	Price Key
1/4 x 1	2/0	LAC-2GEE	90	C
1/8 x 1	4/0	LAC-2QEE	90	C
1/4 x 1	4/0	LAC-2QEE	90	C

CONDUCTOR



VS

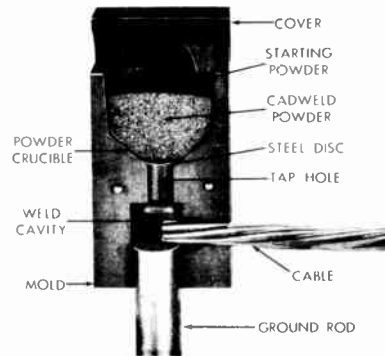
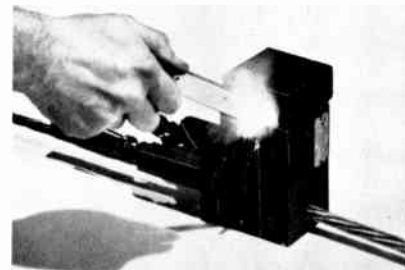
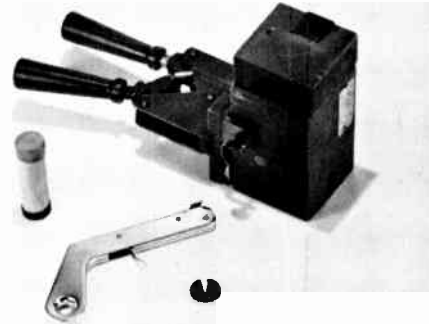


HA

Size In.	Conductor	Mold	Cart.	Price Key
1/0	Vertical	VSC-2C	90	C
2/0	Steel	VSC-2G	90	C
4/0	Surface	VSC-2Q	115	C
250 MCM		VSC-2V	115	C
1/0	Horiz.	HAC-2C	90	C
2/0	Steel	HAC-2G	90	C
4/0	Surface	HAC-2Q	115	C
250 MCM		HAC-2V	115	C

CADWELD MOLDS AND E-Z CHANGE CLAMPS

Price Key	1	Each 2-5	6-Over	Nos.	Each
C	\$26.00	\$19.40	\$17.00	L-160	\$25.00
D	28.00	44.20	39.80	L-159	24.00



CADWELD POWDER

Cart. Size	Ctn. Qty.	Per 100 Less than 100	Per 100 100 to 275
45	20	\$113.40	\$100.30
65	20	126.30	122.50
90	10	\$168.50	\$163.50
115	10	211.00	204.70
150	10	276.00	267.70
200	10	336.40	326.30
250	10	423.50	410.80
500	10	822.30	797.70

E.M.T. (THINWALL) FITTINGS

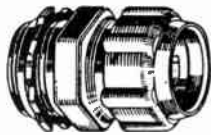
COMPRESSION TYPE CONNECTORS — STEEL

Insulated Throat



Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5123	TC-711	86T050	750B	.....	50	500	9	\$13.40
3/4	5223	TC-712	86T075	751B	.....	50	300	15	18.60
1	5323	TC-713	86T100	752B	.....	25	150	22	29.60
1 1/4	5423	TC-714	86T125	753B	.....	15	90	35	59.00
1 1/2	5523	TC-715	86T150	754B	.....	10	60	46	86.50
2	5623	TC-716	86T200	755B	.....	5	30	60	126.00

COMPRESSION TYPE CONNECTORS — STEEL



Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5121	TC-111	96T050	750	.....	50	500	9	\$11.00
3/4	5221	TC-112	96T075	751	.....	50	300	15	15.40
1	5321	TC-113	96T100	752	.....	25	150	18	24.00
1 1/4	5421	TC-114	96T125	753	.....	15	90	37	46.10
1 1/2	5521	TC-115	96T150	754	.....	10	60	46	67.10
2	5621	TC-116	96T200	755	.....	5	30	57	97.40

COMPRESSION TYPE COUPLINGS — STEEL



Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5120	TK-111	95T050	760	.....	50	500	11	\$13.40
3/4	5220	TK-112	95T075	761	.....	50	300	18	18.60
1	5320	TK-113	95T100	762	.....	25	150	21	28.30
1 1/4	5420	TK-114	95T125	763	.....	15	90	38	50.30
1 1/2	5520	TK-115	95T150	764	.....	10	60	46	72.40
2	5620	TK-116	95T200	765	.....	5	30	67	99.40

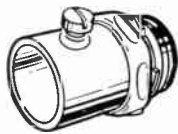
TWO PIECE CONNECTORS



Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	TC-231	92T050	756DC	724	100	400	5	\$ 7.60
3/4	TC-232	92T075	.....	725	50	500	8	13.55

SET SCREW CONNECTOR — STEEL — INSULATED

One Screw Type



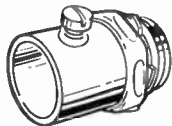
Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5031	TC-721	.....	720B	.....	50	500	7	\$ 9.20
3/4	5033	TC-722	.....	721B	.....	50	300	10	14.90
1	5035	TC-723	.....	722B	.....	25	150	19	23.70

Two Screw Type

1 1/4	5037	TC-724	.....	723B	.....	15	90	29	\$44.30
1 1/2	5039	TC-725	.....	724B	.....	10	60	47	64.30
2	5041	TC-726	.....	725B	.....	5	30	62	93.20

SET SCREW CONNECTORS — STEEL

One Screw Type



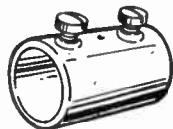
Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5051	TC-121	.....	720	.....	50	500	7	\$ 6.25
3/4	5053	TC-122	.....	721	.....	50	300	10	10.30
1	5055	TC-123	.....	722	.....	25	150	19	19.40

Two Screw Type

1 1/4	5057	TC-124	.....	723	.....	15	90	30	\$38.40
1 1/2	5059	TC-125	.....	724	.....	10	60	50	55.50
2	5061	TC-126	.....	725	.....	5	30	54	78.90

SET SCREW COUPLINGS — STEEL

Two Screw Type



Size In.	Catalog No.					Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efeor	M & W				
1/2	5030	TK-121	.....	730	.....	50	500	8	\$ 8.60
3/4	5032	TK-122	.....	731	.....	50	300	11	13.40
1	5034	TK-123	.....	732	.....	25	150	19	22.60

Four Screw Type

1 1/4	5036	TK-124	.....	733	.....	15	90	31	\$43.30
1 1/2	5038	TK-125	.....	734	.....	10	60	38	62.10
2	5040	TK-126	.....	735	.....	5	30	63	83.80

E.M.T. (THINWALL) FITTINGS

STEEL INDENTER CONNECTORS

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TC-141	98T050	.....	.....	50	500	6	\$ 7.10
	TC-142	98T075	.....	.....	50	300	9	11.60
	TC-143	98T100	.....	.....	25	150	14	16.95

STEEL INDENTER CONNECTORS
3/8" Offset

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TO-141	.....	.....	.....	25	250	10	\$17.35
	TO-142	.....	.....	.....	25	250	13	22.60
	TO-143	.....	.....	.....	25	150	22	29.90

"ONE-SQUEEZE" INDENTER TOOLS

U. L. Listed

Tools are malleable iron. Indenter points are case hardened. Indenter couplings and connectors are installed with one squeeze of the handles, eliminating the old method of "Squeeze, turn and squeeze again." With a single press of the handles, three case-hardened steel points indent both fittings and conduit, resulting in a permanent positive ground installation. Conduit and fittings stay round for trouble-free conductor pull-in.

Fittings Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Qty.	Std. Pkg.	Wt. Lbs. Per 100	Each		
1	IT- 50	BTM- 50	.....	.....	1	10	156	\$5.00	
	IT- 75	BTM- 75	.....	.....	1	10	187	6.75	
	IT-100	BTM-100	.....	.....	1	10	212	8.00	
Points for All Indenter Tools								IP-15	Per doz. 1.25

STEEL INSULATED INDENTER CONNECTORS

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TC-741	.....	.....	.....	50	500	6	\$ 8.10
	TC-742	.....	.....	.....	50	300	9	13.35
	TC-743	.....	.....	.....	25	150	15	19.55

STEEL INSULATED INDENTER CONNECTORS
3/8" Offset

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TO-741	.....	.....	.....	25	250	11	\$21.65
	TO-742	.....	.....	.....	25	250	14	28.35
	TO-743	.....	.....	.....	25	150	18	37.40

STEEL INDENTER COUPLINGS

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TK-141	97T050	.....	.....	50	500	5	\$ 5.85
	TK-142	97T075	.....	.....	50	300	8	7.95
	TK-143	97T100	.....	.....	25	150	13	12.10

SET SCREW CONNECTORS — PRESSURE CAST — ONE SCREW TYPE

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	1186*	TO-221†	.....	.....	25	250	18	\$25.10
	1187*	TO-222†	.....	.....	25	150	23	33.50
	1188*	TO-223†	.....	.....	15	90	35	48.00

*3/4" Offset. †3/8" Offset.

COMPRESSION TYPE CONNECTORS — PRESSURE CAST
3/8" Offset

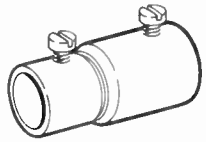
Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	TO-211	.....	.....	.....	25	250	16	\$24.90
	TO-212	.....	.....	.....	25	150	20	32.80
	TO-213	.....	.....	.....	15	90	42	42.55

COMBINATION COMPRESSION COUPLINGS
THINWALL TO HEAVY WALL

Size In.	T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Carton	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1	HT-311	TWR50	780	.....	50	300	20	\$14.75
	HT-312	TWR75	781	.....	25	250	19	22.95
	HT-313	.....	782	.....	25	150	32	33.25
	HT-314	.....	783	.....	15	90	38	86.25

E.M.T. (THINWALL) FITTINGS

**COMBINATION SET SCREW COUPLINGS
THINWALL TO HEAVY WALL**



Size
In.
1/2
3/4
1

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
480	25	100	18	\$16.20
481	25	100	32	23.00
482	5	60	46	35.00

ONE HOLE STEEL SNAP-STRAPS FOR EMT



Size
In.
1/2
3/4
1
1 1/4
1 1/2
2

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
4159	TS-101	TWCL- 50	260ST	S- 50	100	1000	4	\$ 2.65
4160	TS-102	TWCL- 75	261ST	S- 75	50	500	5	3.70
4161	TS-103	TWCL-100	262ST	S-100	50	500	9	6.20
4162	TS-104	TWCL-125	263ST	S-125	25	250	11	7.90
.....	TS-105	TWCL-150	264ST	S-150	20	100	17	11.90
.....	TS-106	TWCL-200	265ST	S-200	10	50	21	19.40

RIGID CONDUIT FITTINGS

BONDING TYPE LOCKNUTS — STEEL



Size
In.
3/8
1/2
3/4
1
1 1/4
1 1/2
2

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
140	LN-100	BL 38	150	LN-3	100	1000	1	\$ 3.70
141	LN-101	BL 50	151	LN-4	100	1000	1	2.20
142	LN-102	BL 75	152	LN-5	100	1000	2	3.45
143	LN-103	BL100	153	LN-6	50	500	4	5.90
144	LN-104	BL125	154	LN-7	50	200	7	7.55
145	LN-105	BL150	155	LN-8	50	100	7	11.40
146	LN-106	BL200	156	LN-9	25	50	12	16.70

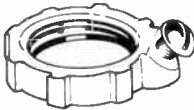
NOTCHED TYPE LOCKNUTS — MALLEABLE IRON



Size
In.
2 1/2
3
3 1/2
4
5
6

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
147	LN-107	BL250	157	LN-10	10	30	29	\$29.40
148	LN-108	BL300	158	LN-11	.....	25	32	38.20
149	LN-109	BL350	159	LN-12	.....	25	43	88.80
150	LN-110	BL400	160	LN-13	.....	25	50	111.00
152	LN-111	BL500	162	LN-14	.....	10	70	229.00
153	LN-112	BL600	163	LN-15	.....	10	101	392.00

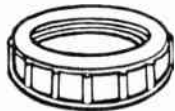
GROUNDING TYPE LOCKNUTS — MALLEABLE IRON



Size
In.
1/2
3/4
1
1 1/4
1 1/2
2
2 1/2
3
3 1/2
4

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
.....	LG-401	GL 50	GL 50	GL-11	.....	100	3	\$11.30
.....	LG-402	GL 75	GL 75	GL-12	.....	100	4	14.10
.....	LG-403	GL100	GL100	GL-13	.....	50	5	20.75
.....	LG-404	GL125	GL125	GL-14	.....	50	7	25.95
.....	LG-405	GL150	GL150	GL-15	.....	50	8	33.45
.....	LG-406	GL200	GL200	GL-16	.....	25	13	45.00
.....	LG-407	GL250	GL250	GL-17	.....	10	25	79.60
.....	LG-408	GL300	GL300	GL-18	.....	10	35	100.30
.....	LG-409	GL350	GL350	GL-19	.....	5	44	165.10
.....	LG-410	GL400	GL400	GL-20	.....	5	54	212.30

PLASTIC INSULATING BUSHINGS



Size
In.
1/2
3/4
1
1 1/4
1 1/2
2
2 1/2
3
3 1/2
4
5
6

T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
222	BU-501	BBU 50	PB 1	988	100	400	1	\$2.40
223	BU-502	BBU 75	PB 2	989	100	400	1	3.80
224	BU-503	BBU100	PB 3	990	50	200	1	6.00
225	BU-504	BBU125	PB 4	991	25	100	2	8.60
226	BU-505	BBU150	PB 5	992	25	100	3	11.40
227	BU-506	BBU200	PB 6	993	15	60	4	21.00
228	BU-507	BBU250	PB 7	994	5	20	9	44.00
229	BU-508	BBU300	PB 8	995	5	20	10	48.40
230	BU-509	BBU350	PB 9	996	.....	5	10	60.50
231	BU-510	BBU400	PB10	997	.....	5	16	72.60
233	BU-511	BBU500	PB11	998	.....	5	38	157.00
234	BU-512	BBU600	PB12	999	.....	5	48	303.00

METALLIC BUSHINGS



Size
In.
1/2
3/4
1
1 1/4
1 1/2
2
2 1/2
3
3 1/2
4
5
6

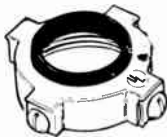
T & B	Steel City	Catalog No. Appleton	Efeor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
122	BU-401	BU 50	51	CB-1	100	1000	3	\$ 3.70
123	BU-402	BU 75	52	CB-2	100	1000	5	5.15
124	BU-403	BU100	53	CB-3	50	500	6	8.80
125	BU-404	BU125	54	CB-4	50	200	11	12.00
126	BU-405	BU150	55	CB-5	50	100	12	17.60
127	BU-406	BU200	56	CB-6	25	50	18	27.70
128	BU-407	BU250	57	CB-7	10	30	30	59.20
129	BU-408	BU300	58	CB-8	.....	25	56	73.50
130	BU-409	BU350	59	CB-9	.....	25	60	146.00
131	BU-410	BU400	60	CB-10	.....	25	83	178.00
133	BU-411	BU500	62	CB-11	.....	10	85	370.00
135	BU-412	BU600	63	CB-12	.....	10	114	664.00

RIGID CONDUIT FITTINGS
INSULATED METALLIC BUSHINGS



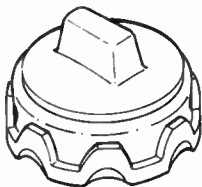
Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
1/2	1222	BI-201	BU 501	55- 50	.....	B 50	50	100	3	\$14.20
3/4	1223	BI-202	BU 751	55- 75	.....	B 75	25	50	6	21.10
1	1224	BI-203	BU1001	55-100	.....	B100	10	40	10	30.50
1 1/4	1225	BI-204	BU1251	55-125	.....	B125	5	20	10	44.30
1 1/2	1226	BI-205	BU1501	55-150	.....	B150	5	20	15	54.70
2	1227	BI-206	BU2001	55-200	.....	B200	5	10	20	80.30
2 1/2	1228	BI-207	BU2501	55-250	.....	B250	5	10	20	150.00
3	1229	BI-208	BU3001	55-300	.....	B300	1	5	40	207.00
3 1/2	1230	BI-209	BU3501	55-350	.....	B350	1	5	60	264.00
4	1231	BI-210	BU4001	55-400	.....	B400	1	5	60	333.00
5	586	.....	.....	55-500	.....	B500	..	1	100	690.00
6	587	.....	.....	55-600	.....	B600	..	1	100	1065.00

INSULATED GROUNDING BUSHINGS



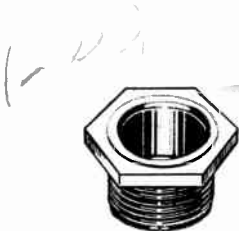
Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
1/2	3802	BG-801	.....	56- 50- 8	GB-500	BL0508	50	500	7	\$41.90
3/4	3803	BG-802	.....	56- 75- 8	GB-510	BL5708	50	500	8	53.30
1	3804	BG-803	.....	56-100- 8	GB-520	BL1108	25	250	10	67.10
1 1/4	3805	BG-804	.....	56-125- 8	GB-530	BL1208	15	150	13	81.60
1 1/2	3806	BG-805	.....	56-150- 4	GB-540	BL1504	15	150	17	91.10
2	3807	BG-806	.....	56-200- 4	GB-550	BL2004	10	100	23	122.00
2 1/2	3808	BG-807	.....	56-250-10	GB-560	BL2621	10	60	56	194.00
3	3809	BG-808	.....	56-300-10	GB-570	BL3121	5	30	74	254.00
3 1/2	3810	BG-809	.....	56-350-10	GB-580	BL3624	5	30	95	309.00
4	3811	BG-810	.....	56-400-10	GB-590	BL4124	5	30	106	382.00

CAPPED BUSHINGS



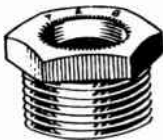
Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
1/2	1460	BC-401	BUC 50	CB51	.....	.....	100	1000	3	\$ 6.20
3/4	1461	BC-402	BUC 75	CB52	.....	.....	100	1000	5	7.90
1	1462	BC-403	BUC100	CB53	.....	.....	50	500	7	11.20
1 1/4	1463	BC-404	BUC125	CB54	.....	.....	50	200	13	19.60
1 1/2	1464	BC-405	BUC150	CB55	.....	.....	50	100	16	22.10
2	1465	BC-406	BUC200	CB56	.....	.....	25	100	18	37.90

CONDUIT NIPPLES FOR RIGID CONDUIT



Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
1/2	1942	.....	.....	951B	.....	.....	25	100	4	\$18.50
3/4	1943	.....	.....	952B	.....	.....	25	100	7	22.30
1	1944	.....	.....	953B	.....	.....	25	100	13	32.80
1 1/4	1945	.....	.....	954B	.....	.....	10	50	21	56.30
1 1/2	1946	.....	.....	955B	.....	.....	10	50	29	73.30
2	1947	.....	.....	956B	.....	.....	5	50	52	112.00
2 1/2	1948	.....	.....	957B	.....	.....	5	20	83	275.00
3	1949	.....	.....	958B	.....	.....	2	10	125	297.00
3 1/2	1950	.....	.....	959B	.....	.....	1	5	140	417.00
4	1951	.....	.....	960B	.....	.....	1	5	180	639.00

Galvanized. Used with couplings to connect to boxes. Permits box to be removed without disturbing conduit.



Malleable Iron

Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
3/4	841*	HA-400	.....	950	.....	.....	100	500	3	\$17.00
1/2	842*	HA-401	CN50†	951	.....	.....	100	500	4	6.20
3/4	843*	HA-402	CN75†	952	.....	.....	50	200	8	8.80
1	844*	HA-403	CN100†	953	.....	.....	25	100	14	16.00
1 1/4	845*	HA-404	CN125	954	.....	.....	25	100	20	25.50
1 1/2	846*	HA-405	CN150	955	1555	.....	10	50	26	32.70
2	847*	HA-406	CN200	956	1556	.....	5	50	50	52.80
2 1/2	848*	HA-407	CN250	957	1557	.....	5	20	52	111.00
3	849*	HA-408	CN300	958	1558	.....	2	10	99	163.00
3 1/2	850*	HA-409	CN350	959	1559	.....	2	5	132	338.00
4	851*	HA-410	CN400	960	1560	.....	2	5	177	561.00
1" Long										
1/2	.....	HA-211	.....	.....	.....	.....	100	1000	5	\$15.25
3/4	.....	HA-212	.....	.....	.....	.....	50	500	7	19.20
1	.....	HA-213	.....	.....	.....	.....	25	250	11	31.60

*Chase — Reg. Trademark Thomas & Betts †Zinc Die Cast.

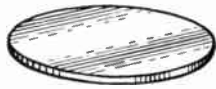
PLASTIC PLUGS



Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	O.Z.				
1/2	1470	BL-501	.....	.....	981	.....	100	1000	1/2	\$2.95
3/4	1471	BL-502	.....	.....	982	.....	100	1000	1/2	3.35
1	1472	BL-503	.....	.....	983	.....	50	500	1/2	4.60
1 1/4	1473	BL-504	.....	.....	984	.....	50	200	1	7.15
1 1/2	1474	BL-505	.....	.....	985	.....	25	100	1	13.40
2	1475	BL-506	.....	.....	986	.....	25	100	2	18.10

RIGID CONDUIT FITTINGS

STEEL BUSHING CLOSERS



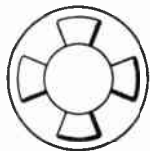
Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
2 1/2	821	BL-107	.....	36	.....	50	100	4	\$27.60
3	822	BL-108	.....	37	.....	50	100	7	34.30
3 1/2	824	BL-109	.....	38	.....	50	100	9	46.40
4	823	BL-110	.....	39	.....	25	100	11	60.70

STEEL SNAP-IN BLANKS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	BL-111	S 50	TL50	KO-90	100	1000	1	\$3.55
3/4	BL-112	S 75	TL51	KO-91	100	1000	2	4.30
1	BL-113	S100	TL52	KO-92	50	1000	2	7.90
1 1/4	BL-114	S125	TL53	KO-93	50	500	3	10.30
1 1/2	BL-115	S150	TL54	KO-94	50	500	4	15.20
2	BL-116	S200	TL55	KO-95	25	250	6	20.05

REDUCING WASHERS — STEEL



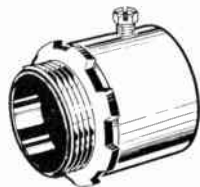
Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2 to 3/4	.....	WA-110	.....	.....	.....	250	500	1	\$1.55
3/4 to 1/2	3701	WA-121	RW 75- 50	201	RW-110	250	500	1	1.80
1 to 1/2	3703	WA-131	RW100- 50	301	RW-120	125	250	2	3.15
1 to 3/4	3704	WA-132	RW100- 75	302	RW-121	125	250	2	3.15
1 1/4 to 1/2	3706	WA-141	RW125- 50	401	RW-130	125	250	4	5.65
1 1/4 to 3/4	3707	WA-142	RW125- 75	402	RW-131	100	200	3	5.15
1 1/4 to 1	3708	WA-143	RW125-100	403	RW-132	100	200	3	5.15
1 1/2 to 1/2	3710	WA-151	RW150- 50	501	RW-140	50	100	4	6.85
1 1/2 to 3/4	3711	WA-152	RW150- 75	502	RW-141	50	100	4	6.85
1 1/2 to 1	3712	WA-153	RW150-100	503	RW-142	50	100	4	6.20
1 1/2 to 1 1/4	3713	WA-154	RW150-125	504	RW-143	50	100	4	6.20
2 to 1/2	3714	WA-161	RW200- 50	601	RW-150	50	100	9	9.25
2 to 3/4	3715	WA-162	RW200- 75	602	RW-151	50	100	9	9.25
2 to 1	3716	WA-163	RW200-100	603	RW-152	50	100	8	8.25
2 to 1 1/4	3717	WA-164	RW200-125	604	RW-153	50	100	8	8.25
2 to 1 1/2	3718	WA-165	RW200-150	605	RW-154	50	100	6	8.25

REDUCING BUSHINGS — STEEL



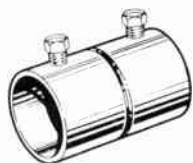
Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Crouse-Hinds	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4 to 1/2	601	RB-121	RB- 75- 50	510	RB-10	RE21	....	100	4	\$10.30
1 to 1/2	602	RB-131	RB-100- 50	610	RB-20	RE31	....	50	12	16.20
1 to 3/4	603	RB-132	RB-100- 75	611	RB-21	RE32	....	50	7	16.20
1 1/4 to 1/2	604	RB-141	RB-125- 50	710	RB-30	RE41	....	50	29	26.70
1 1/4 to 3/4	605	RB-142	RB-125- 75	711	RB-31	RE42	....	50	23	26.70
1 1/4 to 1	606	RB-143	RB-125-100	712	RB-32	RE43	....	50	14	26.70
1 1/2 to 1/2	607	RB-151	RB-150- 50	810	RB-40	RE51	....	50	42	41.70
1 1/2 to 3/4	608	RB-152	RB-150- 75	811	RB-41	RE52	....	50	37	41.70
1 1/2 to 1	609	RB-153	RB-150-100	812	RB-42	RE53	....	50	27	41.70
1 1/2 to 1 1/4	610	RB-154	RB-150-125	813	RB-43	RE54	....	50	12	41.70
2 to 1/2	611	.....	RB-200- 50	910	.....	RE61	10	25	88	86.40
2 to 3/4	612	.....	RB-200- 75	911	.....	RE62	10	25	72	95.00
2 to 1	613	RB-163	RB-200-100	912	RB-52	RE63	....	25	49	80.00
2 to 1 1/4	614	RB-164	RB-200-125	913	RB-53	RE64	....	25	42	80.00
2 to 1 1/2	615	RB-165	RB-200-150	914	RB-54	RE65	....	25	38	80.00
2 1/2 to 1 1/2	.....	RB-175	RB-250-150	2515	RB-64	.....	....	25	57	154.35
2 1/2 to 2	.....	RB-176	RB-250-200	2520	RB-65	.....	....	25	54	129.00
3 to 2	.....	RB-186	RB-300-200	320	RB-75	.....	....	25	108	195.15
3 to 2 1/2	.....	RB-187	RB-300-250	225	RB-76	.....	....	25	88	195.15

INSULATED THROAT SET SCREW CONNECTORS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	8125	.....	.....	.....	.....	25	200	16	\$26.90
3/4	8225	.....	.....	.....	.....	25	100	20	39.80
1	8325	.....	.....	.....	.....	10	50	36	58.00
1 1/4	8425	.....	.....	.....	.....	10	50	55	93.80
1 1/2	8525	.....	.....	.....	.....	5	25	85	132.00
2	8625	.....	.....	.....	.....	2	20	100	261.00
2 1/2	8725	.....	.....	1726B	.....	1	5	275	652.00
3	8825	.....	.....	1727B	.....	1	5	360	846.00
3 1/2	8855	.....	.....	1728B	.....	1	5	430	1190.00
4	8975	.....	.....	1729B	.....	..	1	500	1500.00

SET SCREW COUPLINGS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	8124	.....	.....	.....	.....	25	200	30	\$33.90
3/4	8224	.....	.....	.....	.....	25	100	37	44.40
1	8324	.....	.....	.....	.....	10	50	56	71.10
1 1/4	8424	.....	.....	.....	.....	10	50	83	108.00
1 1/2	8524	.....	.....	.....	.....	5	25	110	137.00
2	8624	.....	.....	.....	.....	2	20	145	311.00
2 1/2	8724	.....	.....	1736	.....	1	5	260	612.00
3	8824	.....	.....	1737	.....	1	5	395	802.00
3 1/2	8854	.....	.....	1738	.....	1	5	530	1135.00
4	9874	.....	.....	1739	.....	..	1	620	1435.00

RIGID CONDUIT FITTINGS

CONDUIT COUPLINGS — THREE PIECE



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	675*	EK-401	EC 50	165	MK-1	50	100	29	\$35.50
3/4	676*	EK-402	EC 75	166	MK-2	25	50	40	46.10
1	677*	EK-403	EC100	167	MK-3	....	25	55	87.80
1 1/4	678*	EK-404	EC125	168	MK-4	....	25	90	161.00
1 1/2	679*	EK-405	EC150	169	MK-5	....	25	98	203.00
2	680*	EK-406	EC200	170	MK-6	....	20	125	410.00
2 1/2	681*	EK-407	EC250	171	MK-7	....	10	206	845.00
3	682*	EK-408	EC300	172	MK-8	....	6	242	1260.00
3 1/2	683*	EK-409	EC350	173	MK-9	....	5	440	2035.00
4	684*	EK-410	EC400	174	MK-10	....	5	820	2305.00

THREADLESS CONNECTORS FOR RIGID CONDUIT



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	8121	HC-401	NTC 50	1750	.....	50	300	17	\$31.60
3/4	8221	HC-402	NTC 75	1751	.....	25	150	25	51.70
1	8321	HC-403	NTC100	1752	.....	15	90	40	73.20
1 1/4	8421	HC-404	NTC125	1753	.....	10	60	65	131.00
1 1/2	8521	HC-405	NTC150	1754	.....	5	30	130	183.00
2	8621	HC-406	NTC200	1755	.....	2	12	238	361.00
2 1/2	8721	HC-407	NTC250	1756	.....	2	12	275	1100.00
3	8821	HC-408	NTC300	1757	.....	1	6	333	1460.00
3 1/2	8851	HC-409	NTC350	1758	.....	1	6	475	1785.00
4	8971	HC-410	NTC400	1759	.....	1	6	547	2190.00

THREADLESS COUPLINGS FOR RIGID CONDUIT



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	8120	HK-401	NTCC- 50	1760	.....	50	300	24	\$50.70
3/4	8220	HK-402	NTCC- 75	1761	.....	25	150	38	74.60
1	8320	HK-403	NTCC-100	1762	.....	15	90	73	127.00
1 1/4	8420	HK-404	NTCC-125	1763	.....	10	60	83	190.00
1 1/2	8520	HK-405	NTCC-150	1764	.....	5	30	90	239.00
2	8620	HK-406	NTCC-200	1765	.....	2	12	360	544.00
2 1/2	8720	HK-407	NTCC-250	1766	.....	2	12	401	1530.00
3	8820	HK-408	NTCC-300	1767	.....	1	6	558	2040.00
3 1/2	8850	HK-409	NTCC-350	1768	.....	1	6	718	3610.00
4	8870	HK-410	NTCC-400	1769	.....	1	6	819	3330.00

O.Z. SPLIT COUPLINGS



Size In.	Type SP		Type SSP Concrete Type		Std. Pkg.	Wt. Lbs.
	Cat. No.	Each	Cat. No.	Each		
1/2	SP 50	\$102.00	SSP 50	\$119.00	6	.25
3/4	SP 75	106.25	SSP 75	123.25	6	.28
1	SP100	114.75	SSP100	131.75	6	.47
1 1/4	SP125	153.00	SSP125	170.00	4	.58
1 1/2	SP150	191.25	SSP150	212.50	4	.61
2	SP200	348.50	SSP200	374.00	2	2.1
2 1/2	SP250	522.75	SSP250	556.75	2	3.3
3	SP300	705.50	SSP300	748.00	1	3.6
3 1/2	SP350	947.75	SSP350	998.75	1	4.8
4	SP400	1228.25	SSP400	1292.00	1	5.9
5	SP500	2052.75	SSP500	2137.75	1	8.6
6	SP600	2856.00	SSP600	3026.00	1	10.0

OFFSET NIPPLES FOR RIGID CONDUIT



Size In.	3/4" Offset		Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Catalog No. Appleton				
1/2	1180	HO-221	25	250	12	\$20.80
3/4	1181	HO-222	25	150	19	27.20
1	1182	HO-223	10	100	34	31.80
1 1/4	.....	HO-224	10	60	21	44.90
1 1/2	.....	HO-225	5	30	31	53.80
2	.....	HO-226	5	30	46	81.40
1 1/2" Offset						
3/4	.....	HO-252	10	100	16	\$44.90
1	.....	HO-253	10	60	29	56.15
1 1/4	.....	HO-254	5	30	33	93.50
1 1/2	.....	HO-255	5	30	46	122.70
2	.....	HO-256	4	24	60	164.60

*Erickson® Couplings.

RIGID CONDUIT FITTINGS

ELBOWS FOR RIGID CONDUIT

BUSHED ELBOWS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	460	.....	LMFL90- 50	181	.....	25	50	30	\$42.10
3/4	461	.....	LMFL90- 75	182	.....	25	50	44	58.90
1	462	.....	LMFL90-100	183	.....	5	25	84	133.00
1 1/4	463	.....	LMFL90-125	.....	.....	5	10	150	200.00

SHORT ELBOWS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	4250	.....	LMF90- 50	181A	.....	25	50	20	\$33.30
3/4	4251	.....	LMF90- 75	182A	.....	25	50	30	45.90
1	4252	.....	LMF90-100	183A	.....	5	25	56	75.40
1 1/4	4253	.....	.....	184A	.....	5	25	92	193.00
1 1/2	4254	.....	.....	185A	.....	5	25	120	285.00
2	4255	.....	.....	.....	.....	5	10	180	479.00

CAPPED ELBOWS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	1480	HL-421	AY 50	391	.....	10	50	54	\$77.70
3/4	1481	HL-422	AY 75	391	.....	5	50	59	84.00
1	1482	HL-423	AY100	392	.....	5	25	111	126.00
1 1/4	1483	HL-424	AY125	393	.....	..	10	200	272.00

PULL CORNER ELBOWS

No Sleeve — Aluminum



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	HL-601	.....	6-503	.....	10	100	12	\$36.75
3/4	HL-602	.....	6-753	.....	10	100	17	50.40
1	HL-603	.....	.....	.....	10	60	31	117.60

INSULATED THROAT WATERTIGHT HUB CONNECTORS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2	370	.....	HUB 50	40- 50B	ST 50*	25	100	20	\$81.90
3/4	371	.....	HUB 75	40- 75B	ST 75	25	50	26	94.50
1	372	.....	HUB100	40-100B	ST100	5	25	44	116.00
1 1/4	373	.....	HUB125	40-125B	ST125	5	25	75	134.00
1 1/2	374	.....	HUB150	40-150B	ST150	2	10	100	153.00
2	375	.....	HUB200	40-200B	ST200	1	5	138	221.00
2 1/2	376	.....	HUB250	40-250B	ST250	1	5	200	424.00
3	377	.....	HUB300	40-300B	ST300	1	5	375	594.00
3 1/2	378	.....	HUB350	40-350B	ST350	..	1	425	783.00
4	379	.....	HUB400	40-400B	ST400	..	1	500	968.00

*Non-Insulated.

ONE HOLE MALLEABLE IRON PIPE STRAPS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	1275†	HS-400	CL 38M	230	.....	100	500	4	\$5.55
1/2	1276†	HS-401	CL 50M	231	.....	100	500	4	4.75
3/4	1277†	HS-402	CL 75M	232	.....	50	500	7	6.50
1	1278†	HS-403	CL100M	233	.....	50	100	12	9.65
1 1/4	1279†	HS-404	CL125M	234	.....	25	100	21	17.00
1 1/2	1280†	HS-405	CL150M	235	.....	25	50	25	20.10
2	1281†	HS-406	CL200M	236	.....	..	25	40	39.00
2 1/2	1282†	HS-407	CL250M	237	.....	..	25	99	77.90
3	1283†	HS-408	CL300M	238	.....	..	25	111	109.00
3 1/2	1284†	HS-409	CL350M	239	.....	..	10	218	155.00
4	1285†	HS-410	CL400M	240	.....	..	10	295	347.00
5	1287†	HS-411	.....	242	.....	..	5	400	1220.00

†Hot Dip Galvanized.

ONE HOLE STEEL PIPE STRAPS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	1210	HS-100	CL 38	.....	PS- 3/8	100	1000	3	\$4.20
1/2	1211	HS-101	CL 50	231ST	PS-2	50	500	5	4.20
3/4	1212	HS-102	CL 75	232ST	PS-3	50	500	6	5.55
1	1213	HS-103	CL100	233ST	PS-5	25	250	10	8.80
1 1/4	.....	HS-104	CL125	234ST	PS-6	25	100	14	9.65
1 1/2	.....	HS-105	CL150	235ST	PS-7	25	100	16	13.40
2	.....	HS-106	CL200	236ST	PS-8	10	100	20	21.95
2 1/2	.....	HS-107	CL250	237ST	PS-9	..	25	52	33.10
3	.....	HS-108	CL300	238ST	PS-10	..	25	84	50.10
3 1/2	.....	HS-109	CL350	239ST	PS-11	..	10	92	66.15
4	.....	HS-110	CL400	240ST	PS-12	..	10	101	77.50

RIGID CONDUIT FITTINGS
PIPE SPACERS
FOR HEAVYWALL OR THINWALL PIPE



Size In.	Catalog No.					Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W				
1/2	1376*	CB-201	CLB 50M	131	-----	100	1000	6	\$7.35
3/4	1377*	CB-202	CLB 75M	132	-----	50	500	8	8.40
1	1378*	CB-203	CLB100M	133	-----	50	500	10	13.50
1 1/4	1379*	CB-204	CLB125M	134	-----	50	250	18	20.30
1 1/2	1380*	CB-205	CLB150M	135	-----	20	100	23	26.00
2	1381*	CB-206	CLB200M	136	-----	10	50	32	42.50

SERVICE ENTRANCE FITTINGS FOR HEAVYWALL OR THINWALL

THREADED CAPS FOR HEAVYWALL (RIGID) INSTALLATIONS



Size In.	Catalog No.						Unit Pkg.	Std. Pkg.	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W	Crouse-Hinds			
1/2	1525*	SH-301	F 50	27- 50	260	F186	10	60	\$41.60
3/4	1521*	SH-302	F 75	27- 75	261	F285	10	60	55.00
1	1522*	SH-303	F100	27-100	262	F385	5	30	80.60
1 1/4	1523*†	SH-304	F125	27-125	263	F485	5	30	104.00
1 1/4	1524*†	-----	-----	-----	-----	-----	1	10	106.00
1 1/2	1529*	SH-305	F150	27-150	264	F585	3	18	184.00
2	1530*	SH-306	F200	27-200	265	F686	1	6	372.00
2 1/2	1531*	SH-307	F250	376	266	F766	..	1	1255.00
3	1532*	SH-308	F300	377	267	F866	..	1	1835.00
3 1/2	1533*	SH-309	F350	378	268	F966	..	1	2420.00
4	1534*	SH-310	F400	379	269	F1066	..	1	3025.00

* †5 Hole: †7 Hole.

Horizontal and Vertical Mounting



2	-----	SH-506	-----	-----	-----	-----	..	5	\$337.80
2 1/2	-----	SH-507	-----	-----	-----	-----	..	1	1087.80
3	-----	SH-508	-----	-----	-----	-----	..	1	1590.75
3 1/2	-----	SH-509	-----	-----	-----	-----	..	1	2100.00
4	-----	SH-510	-----	-----	-----	-----	..	1	2625.00

SERVICE ENTRANCE ELLS — ALUMINUM



Size In.	Catalog No.					Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W				
1/2	1490	SL-601	SLAY- 50A	5- 50	270	10	100	19	\$48.30
3/4	1491	SL-602	SLAY- 75A	5 -75	271	10	60	22	57.80
1	1492	SL-603	SLAY-100A	5-100	272	5	30	48	95.60
1 1/4	1493	SL-604	SLAY-125A	5-125	273	5	30	65	130.00
1 1/2	1494	SL-605	SLAY-150A	5-150	274	2	20	106	301.00
2	1495	SL-606	SLAY-200A	5-200	275	1	10	165	454.00

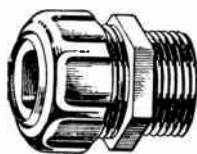
CLAMP TYPE CAPS



Size In.	Catalog No.					Carton	Std. Pkg.	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W			
1/2	1545*	SH-101	-----	26- 50	-----	5	50	\$48.90
3/4	1546*	SH-102	-----	26- 75	-----	5	50	59.90
1	1547*	SH-103	-----	26-100	242R	5	25	82.30
1 1/4	1548*	SH-104	-----	26-125	243R	2	10	104.00
1 1/2	1549*	SH-105	-----	26-150	244R	..	5	164.00
2	1550*	SH-106	-----	26-200	245R	..	5	339.00
2 1/2	-----	SH-107	-----	4006	-----	..	1	987.00
3	-----	SH-108	-----	4007	-----	..	1	1346.00
3 1/2	-----	SH-109	-----	4008	-----	..	1	1615.95
4	-----	SH-110	-----	4009	-----	..	1	1885.30

SERVICE ENTRANCE CABLE CONNECTORS

Water Tight



Size In.	Catalog No.					Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W				
1/2	2111	-----	-----	839	-----	10	100	12	\$37.80
3/4	2232	-----	SOE21	840	-----	10	100	19	37.80
3/4	2233	-----	SEO22	840	-----	10	100	19	37.80
3/4	2234	-----	SEO22	853	-----	10	100	19	37.80
1	2432	-----	SEO31	850	HNO	10	100	22	47.50
1	2433	-----	SEO32	851	HN-1	10	100	22	47.50
1	2434	-----	SEO32	849	HN-2	10	100	22	47.50
1	2438	-----	-----	-----	HN-3	10	100	22	47.50
1	2439	-----	SEO33	849	HN-4	10	100	22	47.50
1 1/4	2442	-----	-----	1849	-----	5	50	54	101.00
1 1/4	2443	-----	SEO-041	1854	HN33	5	50	54	101.00
1 1/4	2448	-----	SEO-041	859	HN23	5	50	54	101.00
1 1/2	2454	-----	-----	2848	HN-211	5	10	70	139.00
1 1/2	2447	-----	SEO-51	2858	HN1/OR	5	10	70	139.00
2	2448	-----	-----	3860	HN2/ORS	5	10	110	268.00
2	2449	-----	-----	3862	HN4/OR	5	10	110	268.00
2	2450	-----	-----	3863	HN4/OR	5	10	110	268.00

*Hot Dip Galvanized.

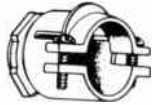
SERVICE ENTRANCE CABLE FITTINGS

Non-Water Tight



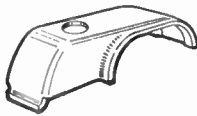
Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4	3302	NC011	7285V	1111	.....	100	1000	6	\$ 8.35
3/4	3303	NC023	15233	1234	.....	25	100	11	21.60
1	3304	NC031	15234	3410	.....	10	50	20	28.70
1 1/4	3305	NC041	.....	1015	.....	5	25	40	50.50
1 1/2	3306	NC051	.....	1017	.....	5	20	50	118.00
2	3307	NC061	.....	1016	.....	5	10	70	147.00

Non-Water Tight



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4	NC-023	15233	1234	.....	25	100	18	\$28.65
1/2 S	NC-012	.....	1111	.....	25	100	17	19.45
1/2	NC-022	.....	1212	.....	25	100	21	22.35
3/4	NC-021	.....	4234	65	25	100	18	20.60
1	NC-031	15234	2410	66	10	50	25	28.65
1 1/4	NC-041	15235	1015	67	15	150	26	37.30
1 1/2	NC-051	.....	1017	2-0	10	100	34	66.15
2	NC-061	.....	1016	4-0	10	60	47	88.00

CABLE STRAPS



Wire Size	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
2 — #10	1341	.....	SECL-1U	860	.....	50	100	3	\$4.20
3 — #6 or #8	1344	.....	SECL-2U	861	0275M	50	100	5	4.40
3 — #4 or #2	1345	.....	SECL-3U	862	0276M	50	100	6 1/2	4.85
3 — #1/0	1346	.....	.....	126	231	50	100	10 1/2	7.15
3 — #4/0	1347	.....	.....	127	284	10	50	13	11.30

BOX CONNECTORS FOR ARMORED CABLE OR FLEXIBLE METALLIC CONDUIT

STRAIGHT SQUEEZE TYPE



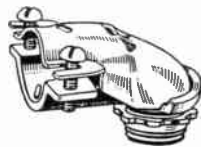
Trade	Size, In. K.O.	T & B	Steel City	Catalog No. Appleton	Efcor	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4 S	1/2	253	XC-400	7480V	1001	7	\$8.60
1/2	1/2	254	XC-401	7481V	1002	15	19.60
3/4	3/4	255	XC-402	7482V	1003	18	20.80
1	1	256	XC-403	7483	1004	26	38.00
1 1/4	1 1/4	257	XC-404	7484	1005	37	60.00
1 1/2	1 1/2	258	XC-405	7485	1006	71	110.00
2	2	259	XC-406	7486	1007	98	159.00
2 1/2	2 1/2	249	XC-407	7487	1008	132	287.00
3	3	277	XC-408	7488	1009	190	402.00

45° ANGLE SQUEEZE TYPE



Trade	Size, In. K.O.	T & B	Steel City	Catalog No. Appleton	Efcor	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4	1/2	265	XC-450	1245V	2050	15	\$23.20
1/2	1/2	267	XC-451	7246V	2052	21	38.60
3/4	3/4	269	XC-452	7247V	.....	27	55.70

90° ANGLE SQUEEZE TYPE



Trade	Size, In. K.O.	T & B	Steel City	Catalog No. Appleton	Efcor	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4	1/2	266	XC-290	7380DC	2200	10	\$19.10
1/2	1/2	268	XC-491	7381V	2002	23	33.10
3/4	3/4	270	XC-492	7382V	2003	34	46.10
1	1	273	XC-493	7383	2004	55	85.70
1 1/4	1 1/4	274	XC-494	7384	2005	98	160.00
1 1/2	1 1/2	275	XC-495	7385	2006	219	276.00
2	2	276	XC-496	7386	2007	312	361.00
2 1/2	2 1/2	.....	XC-497	7387	2008	440	1331.00
3	3	.....	XC-498	7388	2009	610	1870.00

TWO SCREW TYPE



Trade	Size, In. K.O.	T & B	Steel City	Catalog No. Appleton	Efcor	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/4	1/2	3301	.....	7285V	1112	6	\$8.10

INSULATED TITE-BITE* CONNECTORS



Trade	Size, In. K.O.	Straight			90°		
		Cat. No.	Std. Pkg.	Wt. Lbs. Per 100	Cat. No.	Std. Pkg.	Wt. Lbs. Per 100
3/4	1/2	3110	500	7	3130	100	15
1/2	1/2	3112	100	15	3132	100	25
3/4	3/4	3115	50	23	3135	50	41
1	1	3117	25	45	3137	25	62
1 1/4	1 1/4	3118	10	62	3138	10	135
1 1/2	1 1/2	3119	10	102	3139	10	205
2	2	3120	5	130	3140	5	280
2 1/2	2 1/2	3121	5	230	3141	5	430
3	3	3122	5	270	3142	5	580

*Reg. Trademark Thomas & Betts

BOX CONNECTORS FOR ARMORED CABLE OR FLEXIBLE METALLIC CONDUIT



CLAMP TYPE CONNECTORS

Size, In.		Catalog No.				Wt. Lbs. Per 100	Std. Pkg. Per 100
Trade	K.O.	T & B	Steel City	Appleton	Efcor		
3/8 A	1/2	.....	XC-280	.....	1112DC	5	\$ 5.20
3/8 S	1/2	.....	XC-400	7480V	1001	7	19.55
3/4 S	3/4	.....	XC-482	.....	1003	11	20.85



SET SCREW CONNECTORS

Size, In.		Catalog No.				Wt. Lbs. Per 100	Std. Pkg. Per 100
Trade	K.O.	T & B	Steel City	Appleton	Efcor		
3/8	1/2	240	XC-460	.....	1000DC	7	\$6.30



CLAMP TYPE CONNECTORS (HINGED)

Size, In.		Catalog No.				Wt. Lbs. Per 100	Std. Pkg. Per 100
Trade	K.O.	T & B	Steel City	Appleton	Efcor		
3/8	1/2	.....	XC-410	7230V	.....	7	\$9.25

BOX CONNECTORS FOR ARMORED CABLE OR NON-METALLIC SHEATHED CABLE

DUPLEX CLAMP TYPE



Size, In.		Catalog No.				Per 100 Wt. Lbs.	Per 100 Std. Pkg.
Trade	K.O.	T & B	Steel City	Appleton	Efcor		
3/8	1/2	291	CC-420	7240V	.....	18	\$23.10

BOX CONNECTORS FOR NON-METALLIC SHEATHED CABLE



ZINC DIE CAST TWO SCREW CLAMP TYPE CONNECTORS

Size, In.		Catalog No.					Wt. Lbs. Per 100	Std. Pkg. Per 100
Trade	K.O.	T & B	Steel City	Appleton	Efcor	M & W		
3/4	3/4	.....	NC-301	7316DC	1111DC	474	5	\$ 5.10
3/4	3/4	.....	NC-302	15223DC	1234DC	55	10	15.00
1	1	.....	NC-303	15224DC	3410DC	56	17	40.00



TWO SCREW CLAMP TYPE CONNECTORS

Size, In.		Catalog No.					Wt. Lbs. Per 100	Std. Pkg. Per 100
Trade	K.O.	T & B	Steel City	Appleton	Efcor	M & W		
3/8	1/2	3302	NC-210	7316DC	1111	474	6	\$ 8.35
3/4	3/4	3303	NC-023	15223	1234	65	11	21.60
1	1	3304	NC-041	15224	3410	66	28	28.70

PORTABLE CORD CONNECTORS

WATERTIGHT STRAIN RELIEF CONNECTORS

90° ANGLE

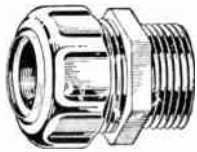


Cable Range	1/2" Hubs					Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton	Efcor	M & W				
.125 to .250	2267	.....	.....	.....	.....	25	50	20	\$84.00
.250 to .370	2268	.....	.....	.....	.....	25	50	20	84.00
.370 to .500	2269	.....	.....	.....	.....	25	50	20	84.00
.450 to .560	2270	.....	.....	.....	.....	25	50	20	84.00
3/4" Hubs									
.250 to .370	2271	.....	.....	.....	.....	10	50	32	\$118.00
.370 to .500	2272	.....	.....	.....	.....	10	50	32	118.00
.450 to .560	2272	.....	.....	.....	.....	10	50	32	118.00
.450 to .560	2273	.....	.....	.....	.....	10	50	32	118.00
.495 to .625	2273	.....	.....	.....	.....	10	50	32	118.00
.620 to .750	2274	.....	.....	.....	.....	10	50	32	118.00
1" Hubs									
.750 .885	2275	.....	.....	.....	.....	5	25	56	\$169.00
.875- .985	2276	.....	.....	.....	.....	5	25	56	169.00
1 1/4" Hubs									
.880-1.065	2277	.....	.....	.....	.....	2	10	120	\$324.00
1.065-1.205	2278	.....	.....	.....	.....	2	10	120	324.00

PORTABLE CORD CONNECTORS

WATERTIGHT STRAIN RELIEF CONNECTORS

Cable Range	Catalog No.			Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton						
½" Hubs									
.125 to .250	2520	.....	CG1250	.....	.....	25	100	18	\$48.30
.250 to .370	2521	.....	CG1850	.....	.....	25	100	18	48.30
.370 to .500	2522	.....	CG3150	.....	.....	25	100	18	48.30
.450 to .560	2523	.....	.....	.....	.....	25	100	18	48.30
.495 to .625	2524	.....	CG5050	.....	.....	25	100	18	48.30
¾" Hubs									
.250 to .370	2531	.....	CG2275	.....	.....	10	100	20	\$52.50
.370 to .500	2532	.....	CG3775	.....	.....	10	100	20	52.50
.450 to .560	2534	.....	CG5075	.....	.....	10	100	20	52.50
.495 to .625	2534	.....	CG5075	.....	.....	10	100	20	52.50
.620 to .750	2535	.....	CG6275	.....	.....	10	100	20	52.50
1" Hubs									
.250 to .370	2541	.....	.....	.....	.....	10	100	22	\$69.30
.370 to .500	2542	.....	CG37100	.....	.....	10	100	22	69.30
.450 to .560	2544	.....	.....	.....	.....	10	100	22	69.30
.495 to .625	2544	.....	CG50100	.....	.....	10	100	22	69.30
.620 to .750	2545	.....	CG62100	.....	.....	10	100	22	69.30
.750-.885	2546	.....	CG75100	.....	.....	10	100	22	69.30
.875-.985	2547	.....	CG87100	.....	.....	10	100	22	69.30
1 ¼" Hubs									
.880-1.065	2558	.....	CG87125	.....	.....	5	50	62	\$208.00
1.065-1.205	2559	.....	CG100175	.....	.....	5	50	62	208.00
1 ½" Hub									
1.000-1.187	2563	.....	.....	.....	.....	5	25	70	\$279.00
1.187-1.375	2564	.....	.....	.....	.....	5	25	70	279.00
2" Hub									
1.375-1.625	2574	.....	.....	.....	.....	1	5	120	\$404.00
1.625-1.875	2575	.....	.....	.....	.....	1	5	120	404.00



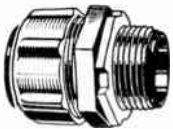
1/2" CG



LIQUID TIGHT FLEXIBLE CONDUIT FITTINGS

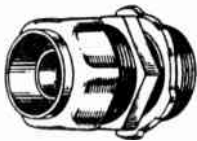
INSULATED STRAIGHT CONNECTORS

Size In.	Catalog No.			Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton						
¾	5331	.....	STB38	1-38B	.....	25	100	14	\$51.10
½	5332	.....	STB50	1-50B	.....	25	100	18	51.10
¾	5333	.....	STB75	1-75B	.....	25	50	28	74.30
1	5334	.....	STB100	1-100B	.....	5	25	51	114.00
1 ¼	5335	.....	STB125	1-125B	.....	5	25	92	180.00
1 ½	5336	.....	STB150	1-150B	.....	2	10	105	255.00
2	5337	.....	STB200	1-200B	.....	1	5	160	478.00
2 ½	5338	.....	STB250	1-250B	.....	1	5	312	2345.00
3	5339	.....	STB300	1-300B	.....	1	5	375	2620.00
4	5340	.....	STB400	1-400B	.....	1	5	612	3025.00



STRAIGHT CONNECTORS

Size In.	Catalog No.			Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton						
¾	5231	.....	ST38	1-38	.....	25	100	13	\$45.30
½	5232	LT201	ST50	1-50	.....	25	100	17	45.30
¾	5233	LT202	ST75	1-75	.....	25	50	24	64.80
1	5234	LT203	ST100	1-100	.....	5	25	41	94.90
1 ¼	5235	LT204	ST125	1-125	.....	5	25	84	163.00
1 ½	5236	.....	ST150	1-150	.....	2	10	105	232.00
2	5237	.....	ST200	1-200	.....	1	5	160	427.00
2 ½	5238	.....	ST250	1-250	.....	1	5	312	1985.00
3	5239	.....	ST300	1-300	.....	1	5	375	2230.00
4	5240	.....	ST400	1-400	.....	1	5	612	2555.00
5	5285	.....	ST500	1-500	.....	..	1	2800	4550.00



INSULATED 45° ANGLE CONNECTORS

Size In.	Catalog No.			Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
	T & B	Steel City	Appleton						
¾	5341	.....	STB45-38	3-38B	.....	25	50	20	\$85.00
½	5342	.....	STB45-50	3-50B	.....	25	50	28	85.00
¾	5343	.....	STB45-75	3-75B	.....	25	50	40	128.00
1	5344	.....	STB45-100	3-100B	.....	5	25	60	242.00
1 ¼	5345	.....	STB45-125	3-125B	.....	5	25	112	351.00
1 ½	5346	.....	STB45-150	3-150B	.....	2	10	160	434.00
2	5347	.....	STB45-200	3-200B	.....	1	5	230	643.00
2 ½	5348	.....	STB45-250	3-250B	.....	1	5	600	2910.00
3	5349	.....	STB45-300	3-300B	.....	1	5	875	3500.00
4	5350	.....	STB45-400	3-400B	.....	1	5	1225	3905.00



LIQUID TIGHT FLEXIBLE CONDUIT FITTINGS

45° ANGLE CONNECTORS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	5241	.....	ST4538	3-38	.....	25	50	18	\$71.20
1/2	5242	.....	ST4550	3-50	.....	25	50	28	71.20
3/4	5243	.....	ST4575	3-75	.....	25	50	40	109.00
1	5244	.....	ST45100	3-100	.....	5	25	68	217.00
1 1/4	5245	.....	ST45125	3-125	.....	5	25	100	333.00
1 1/2	5246	.....	ST45150	3-150	.....	2	10	160	406.00
2	5247	.....	ST45200	3-200	.....	1	5	230	597.00
2 1/2	5248	.....	ST45250	3-250	.....	1	5	600	2485.00
3	5249	.....	ST45300	3-300	.....	1	5	875	2990.00
4	5250	.....	ST45400	3-400	.....	1	5	1225	3315.00

INSULATED 90° ANGLE CONNECTORS



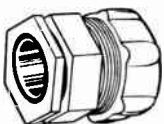
Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	5351	.....	STB9038	2-38B	.....	25	50	28	\$85.00
1/2	5352	.....	STB9050	2-50B	.....	25	50	32	85.00
3/4	5353	.....	STB9075	2-75B	.....	25	50	44	128.00
1	5354	.....	STB90100	2-100B	.....	5	25	68	242.00
1 1/4	5355	.....	STB90125	2-125B	.....	5	25	120	351.00
1 1/2	5356	.....	STB90150	2-150B	.....	2	10	160	434.00
2	5357	.....	STB90200	2-200B	.....	1	5	230	643.00
2 1/2	5358	.....	STB90250	2-250B	.....	1	5	862	2910.00
3	5359	.....	STB90300	2-300B	.....	1	5	1287	3500.00
4	5360	.....	STB90400	2-400B	.....	1	5	2181	3905.00

90° ANGLE CONNECTORS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	5251	.....	ST9038	2-38	.....	25	50	18	\$71.20
1/2	5252	.....	ST9050	2-50	.....	25	50	28	71.20
3/4	5253	.....	ST9075	2-75	.....	25	50	40	109.00
1	5254	.....	ST90100	2-100	.....	5	25	68	217.00
1 1/4	5255	.....	ST90125	2-125	.....	5	25	100	333.00
1 1/2	5256	.....	ST90150	2-150	.....	2	10	160	406.00
2	5257	.....	ST90200	2-200	.....	1	5	230	597.00
2 1/2	5258	.....	ST90250	2-250	.....	1	5	862	2485.00
3	5259	.....	ST90300	2-300	.....	1	5	1287	2990.00
4	5260	.....	ST90400	2-400	.....	1	5	2181	3315.00

INSULATED CHASE® CONNECTORS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8	5361	.....	STN38	.....	.....	25	100	18	\$57.70
1/2	5362	.....	STN50	.....	.....	25	100	22	57.70
3/4	5363	.....	STN75	.....	.....	25	50	34	79.00
1	5364	.....	STN100	.....	.....	5	25	64	122.00
1 1/4	5365	.....	STN125	.....	.....	5	25	128	208.00
1 1/2	5366	.....	STN150	.....	.....	2	10	150	336.00
2	5367	.....	STN200	.....	.....	1	5	220	475.00
2 1/2	5368	.....	STN250	.....	.....	1	5	440	2345.00
3	5369	.....	STN300	.....	.....	1	5	560	2620.00
4	5370	.....	STN400	.....	.....	1	5	900	3015.00

SEALING O RINGS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
3/8 - 1/2	5262	.....	STG50	LTG-1	.....	50	100	.43	\$10.50
3/4	5263	.....	STG75	LTG-2	.....	25	50	.56	11.60
1	5264	.....	STG100	LTG-3	.....	25	50	.63	16.80
1 1/4	5265	.....	STG125	LTG-4	.....	5	25	3.9	27.70
1 1/2	5266	.....	STG150	LTG-5	.....	5	25	4.0	33.60
2	5267	.....	STG200	LTG-6	.....	1	25	4.1	41.60
2 1/2	5268	.....	STG250	LTG-7	.....	1	5	5.0	92.40
3	5269	.....	STG300	LTG-8	.....	1	5	6.4	133.00
4	5270	.....	STG400	LTG-10	.....	1	5	8.4	173.00

**GROUND FITTINGS
GROUND CLAMPS**

For Unarmored Wire #6, #4



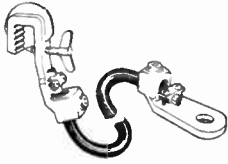
Water Pipe Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
1/2, 3/4 M.I.	3826	.....	.....	.....	.....	5	50	20	\$27.30
1/2, 3/4 Bronze	3846	5	50	20	36.00

For Unarmored or Armored Wire



1/2 — 1	3844	GC203	GF17	19B	10	50	20	\$22.70
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GROUND FITTINGS



Cable Size	Cat. No. T & B	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
Strain Relief Grounding Clamp, #6-2	31215	5	97	\$ 711.00
Grounding Clamp, 1" Hook Type	31216	5	132	1120.00
Grounding Clamp, 1½" Hook Type	31253	5	145	1175.00
Grounding Clamp, 1" Straight Type	31217	5	120	985.00
Grounding Clamp, 1½" Straight Type	31224	5	128	1040.00
Wing Screw	31230	5	15	331.00

CONDUIT GROUNDING HUBS



Water Pipe Size, In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
½ Conduit	3930	.....	.....	.....	.....	5	25	24	\$ 38.60
¾ Conduit	3940	.....	.....	GAH75	.....	5	20	25	103.00
1 Conduit	3950	.....	.....	GAH100	.....	5	10	40	206.00
1½ Conduit	3951	.....	.....	.....	.....	5	10	50	331.00
½ Adj.	3970	.....	.....	.....	.....	5	25	40	72.80
Armd. Wire	3960	.....	.....	.....	.....	5	25	24	119.00

WATERPIPE GROUND CLAMPS



Size, In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
½, ¾, 1	2	.....	.....	GM17	.....	5	25	40	\$42.50
1¼, 1½, 2	3	GC006	.....	GM18	.....	5	10	70	72.80
2½, 3, 3½	4	GC010	.....	GM19	.....	2	4	125	345.00
4, 4½, 5	5	.....	.....	GM20	.....	2	4	200	522.00
6	6	.....	.....	.....	.....	..	1	300	789.00

HEAVY DUTY GROUND CLAMPS



Size, In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Std. Pkg. Per 100
½—1	3902	.....	.....	.....	.....	5	10	50	\$132.00
1¼—2	3903	.....	.....	.....	.....	5	10	90	215.00
2½—3½	3904	.....	.....	.....	.....	2	4	125	352.00
4—5	3905	.....	.....	.....	.....	2	4	175	533.00
6	3906	.....	.....	.....	.....	..	1	200	813.00
8	3907	.....	.....	.....	.....	..	1	200	885.00
10	3908	.....	.....	.....	.....	..	1	260	1105.00
12	3909	.....	.....	.....	.....	..	1	325	1285.00
½ to 1	3902BU*	.....	.....	.....	.....	5	25	....	290.00
1¼ to 2	3903BU*	.....	.....	.....	.....	5	10	....	385.00
2 to 3½	3904BU*	.....	.....	.....	.....	2	4	....	575.00
4 to 5	3905BU*	.....	.....	.....	.....	2	4	....	880.00
6	3906BU*	.....	.....	.....	.....	..	1	....	2680.00
8	3907BU*	.....	.....	.....	.....	..	1	....	2920.00
10	3908BU*	.....	.....	.....	.....	..	1	....	3640.00
12	3909BU*	.....	.....	.....	.....	..	1	....	4240.00

*BU Series — All Bronze.

ELECTRICIAN'S TOOLS

CABLE SLICER



Cable Size	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Std. Pkg.	Wt. Lbs. Each	Each
Up to 350 MCM	346A	.....	.....	.....	.....	1	3	\$27.50
Up to 1000 MCM	366	.....	.....	.....	.....	1	8	37.50

CABLE STRIPPER



Cable Size	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Std. Pkg.	Wt. Lbs. Each	Each
#1—1000 MCM	368	.....	.....	.....	.....	1	1	\$18.00

CABLE BENDER



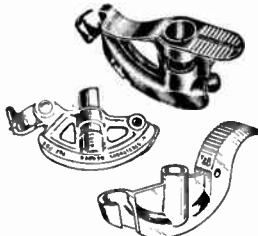
Cable Size	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Std. Pkg.	Wt. Lbs. Each	Each
Up to 750 MCM	21649	.....	.....	.....	.....	1	3	\$7.50

RIGID CONDUIT HICKEYS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Std. Pkg.	Wt. Lbs. Each	Each
½	345	.....	.....	550	B50	1	2	\$3.05
¾	346	.....	.....	551	B75	1	3	4.85
1	347	.....	.....	552	B100	1	5½	9.45

E.M.T. BENDERS



Size In.	T & B	Steel City	Catalog No. Appleton	Efcor	M & W	Std. Pkg.	Wt. Lbs. Each	Each
½	4195M	#4	B-1	460	1221	1	2½	\$4.10
½	4195	#4	B-1	460	1221	1	2½	4.10
¾	4196M	#5	B-2	461	1224	1	4	6.20
¾	4196	#5	B-2	461	1224	1	4	6.20
1	4197M	.....	B-3	.....	1225	1	6	11.20
1	4197	.....	B-3	.....	1225	1	6	11.20
½*	4185	.....	.....	470	.....	1	2	4.30
¾*	4186	.....	.....	471	.....	1	3½	5.45

EFCOR CONDUIT FITTINGS

LIQUID TITE CONNECTORS — 45°



Cat. No.	Trade Size Inches	KO Size Inches	Wt. Lbs. Std.	Unit Pkg. Qty.	Std. Pkg.	Per 100
Malleable Iron						
3-38	3/8	1/2	9	10	50	\$71.20
3-50	1/2	1/2	11	10	50	71.20
3-75	3/4	3/4	16	10	50	109.00
3-100	1	1	12	5	25	217.00
3-125	1 1/4	1 1/4	20	5	25	333.00
3-150	1 1/2	1 1/2	18	2	10	406.00
3-200	2	2	15	1	5	597.00
3-250	2 1/2	2 1/2	40	1	5	2485.00
3-300	3	3	13	....	1	2990.00
3-400	4	4	20	....	1	3315.00
3-500	5	5	41	....	1	7370.00

With Insulated Throat						
3-38B	3/8	1/2	10	10	50	\$85.00
3-50B	1/2	1/2	11	10	50	85.00
3-75B	3/4	3/4	15	10	50	128.00
3-100B	1	1	11	5	25	242.00
3-125B	1 1/4	1 1/4	20	5	25	351.00
3-150B	1 1/2	1 1/2	18	2	10	434.00
3-200B	2	2	15	1	5	643.00
3-250B	2 1/2	2 1/2	40	1	5	2910.00
3-300B	3	3	13	....	1	3500.00
3-400B	4	4	20	....	1	3905.00
3-500B	5	5	41	....	1	8085.00

METALLIC INSULATED BUSHINGS



Grounded and Non-Grounded

Available in sizes 1/2" thru 6" for standard threaded rigid conduit or with set screws for threadless rigid conduit.

Listed as standard in Everdur bronze, Aluminum, Hot Dip Galvanized Malleable Iron, as well as in malleable iron with cadmium plating. Also available as an E.M.T. insulated bushing in malleable iron either cadmium plated or hot dip galvanized.

EFCORLETS

THREADED FOR RIGID CONDUIT

Malleable Iron or Copper Free Aluminum Alloy



Type LB



Type LRL

Available in sizes 1/2" thru 4" except Types LRL and X which are available thru 2".

**SET SCREW TYPE FOR E.M.T.
Copper Free Aluminum Alloy**



Type C



Type T

Available in sizes 1/2" thru 2".

Blank aluminum, steel and composition covers as well as gaskets available for all Efcorlets 1/2" thru 4".

Contact your local Graybar office for prices.

WATER-TITE RIGID CONDUIT HUBS



Copper Free Aluminum Alloy

Cat. No.	Size In.	Wt. Lbs. Std. Pkg.	Unit Qty.	Std. Pkg.	Per 100
40-50AL	1/2	3	25	100	\$94.50
40-75AL	3/4	5	25	100	107.10
40-100AL	1	7	10	50	126.00
40-125AL	1 1/4	3	5	25	144.90
40-150AL	1 1/2	1.5	2	10	163.80
40-200AL	2	1	....	5	226.80
40-250AL	2 1/2	2	....	5	415.80
40-300AL	3	3	....	5	604.80
40-350AL	3 1/2	3	....	5	793.80
40-400AL	4	3	....	5	982.80

With Insulated Throat

40-50BAL	1/2	3	25	100	\$108.70
40-75BAL	3/4	5	25	100	123.20
40-100BAL	1	7	10	50	144.90
40-125BAL	1 1/4	3	5	25	166.65
40-150BAL	1 1/2	1.5	2	10	188.40
40-200BAL	2	1	....	5	283.50
40-250BAL	2 1/2	2	....	5	519.75
40-300BAL	3	3	....	5	756.00
40-350BAL	3 1/2	3	....	5	992.25
40-400BAL	4	3	....	5	1228.50

Malleable Iron

40-50	1/2	11	25	100	\$78.75
40-75	3/4	19	25	100	89.25
40-100	1	27	10	50	105.00
40-125	1 1/4	10	5	25	120.75
40-150	1 1/2	6	2	10	136.50
40-200	2	5	....	5	189.00
40-250	2 1/2	7	....	5	346.50
40-300	3	11	....	5	504.00
40-350	3 1/2	11	....	5	661.50
40-400	4	12	....	5	819.00

With Insulated Throat

40-50B	1/2	11	25	100	\$86.25
40-75B	3/4	19	25	100	97.75
40-100B	1	27	10	50	115.00
40-125B	1 1/4	10	5	25	132.25
40-150B	1 1/2	6	2	10	149.50
40-200B	2	5	....	5	225.00
40-250B	2 1/2	7	....	5	412.50
40-300B	3	11	....	5	600.00
40-350B	3 1/2	11	....	5	787.50
40-400B	4	12	....	5	975.00

COMBINATION COUPLING



Liquid tite conduit to rigid conduit. Steel nut. Malleable iron body.

Cat. No.	Size L.T.	Inches Rigid	Wt. Lbs. Std. Pkg.	Unit Qty.	Std. Pkg.	Per 100
LT42	1/2	1/2	21	25	100	\$54.90
LT43	3/4	3/4	14	10	50	78.30

O.Z. INSULATING BUSHINGS



Conduit Type



Set Screw Type

Use: Type B to insulate end of standard threaded conduit. Type SB to insulate end of conduit having no threads.

Caps to prevent entry of concrete, dust and refuse into conduit prior to pulling cables are available at additional cost.

CONDUIT TYPE "B"

Conduit Size	Std. Pkg.	Approx. Wt. Lbs.	Cat. No.	Cadmium Plated		Hot Dipped Galvanized	
				Std. Pkg. Per 100		Cat. No.	Std. Pkg. Per 100
1/2"	100	.04	B50	\$16.70	HB50	\$22.20	
3/4"	50	.06	B75	30.00	HB75	35.60	
1"	25	.11	B100	45.60	HB100	53.90	
1 1/4"	20	.15	B125	61.10	HB125	69.40	
1 1/2"	20	.18	B150	76.70	HB150	85.00	
2"	10	.30	B200	105.60	HB200	116.70	
2 1/2"	10	.48	B250	144.00	HB250	158.00	
3"	5	.80	B300	200.00	HB300	217.00	
3 1/2"	5	.98	B350	256.00	HB350	278.00	
4"	5	1.3	B400	322.00	HB400	344.00	
4 1/2"	1	1.5	B450	472.00	HB450	517.00	
5"	1	2.3	B500	633.00	HB500	706.00	
6"	1	3.0	B600	977.00	HB600	1088.00	

ALL BAKELITE INSULATING BUSHINGS

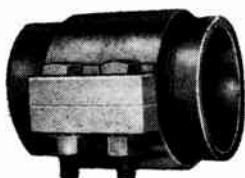


CONDUIT TYPE "A"

Caps to prevent entry of concrete, dust and refuse into conduit prior to pulling cables are available at additional cost.

Conduit Size In.	Std. Ctn.	Std. Pkg.	Cat. No.	per 100		Std. Pkg. per 100	Wt. Lbs. per 100
				Less than Std. Ctn.	Std. Ctn.		
1/2"	100	400	A50	\$4.50	\$3.30	\$2.80	1.3
3/4"	100	400	A75	6.70	5.10	4.20	1.8
1"	50	200	A100	10.70	8.00	6.70	3.5
1 1/4"	25	100	A125	15.70	11.70	9.80	6.0
1 1/2"	25	100	A150	20.60	15.40	12.90	7.0
2"	20	40	A200	37.30	28.00	23.30	10.5
2 1/2"	20	20	A250	64.60	.....	40.40	14.4
3"	10	10	A300	71.00	.....	44.40	19.0
3 1/2"	10	10	A350	89.00	.....	55.60	25.0
4"	10	10	A400	106.70	.....	66.70	28.0
5"	5	5	A500	231.00	.....	144.40	48.0
6"	2	2	A600	444.50	.....	277.80	63.0

SPLIT COUPLINGS



This split malleable iron coupling eliminates use of a running thread. The coupling is so constructed that it will slip over the conduit when in an open position to permit butting of ends of the conduit. Cadmium plated.

Cat. No.	Conduit Size	Each	Cat. No.	Conduit Size	Each
SP 50	1/2"	\$0.96	SP250	2 1/2"	\$4.92
SP 75	3/4"	1.00	SP300	3"	6.64
SP100	1"	1.08	SP350	3 1/2"	8.92
SP125	1 1/4"	1.44	SP400	4"	11.56
SP150	1 1/2"	1.80	SP500	5"	19.32
SP200	2"	3.28	SP600	6"	26.88

O.Z. INSULATED BUSHINGS

GROUNDING TYPE "BL"



Type "BL" affords the protection of Insulated Bushings and provides the means of making quick, positive ground connections. These fittings consist of standard Insulated Bushings equipped with the O.Z. Combination Lug, Type "SLH". These lugs can be used for through type ground connections as well as for end use. A cup point set screw, provided with each fitting, locks the casting in any desired position.

Note—Set Screw and Thin Wall Conduit type Grounded Bushings can be furnished.

Cat. No.	Conduit Size In.	Ground Min.	Wire Size Max.	Std. Pkg.	Per 100
BL0508	1/2"	14 Sol.	8 Str.	100	\$48.80
BL0708	3/4"	14 Sol.	8 Str.	50	62.10
BL0704	3/4"	14 Sol.	4 Str.	50	66.50
BL1108	1"	14 Sol.	8 Str.	25	77.70
BL1104	1"	14 Sol.	4 Str.	25	82.10
BL1208	1 1/4"	14 Sol.	8 Str.	20	93.20
BL1204	1 1/4"	14 Sol.	4 Str.	20	97.60
BL1221	1 1/4"	4 Sol.	1/0 Str.	20	117.90
BL1508	1 1/2"	14 Sol.	8 Str.	20	108.80
BL1504	1 1/2"	14 Sol.	4 Str.	20	113.20
BL1521	1 1/2"	4 Sol.	1/0 Str.	20	133.50
BL2008	2"	14 Sol.	8 Str.	10	137.70
BL2008	2"	14 Sol.	4 Str.	10	142.10
BL2021	2"	4 Sol.	1/0 Str.	10	162.40
BL2604	2 1/2"	14 Sol.	4 Str.	10	180.50
BL2621	2 1/2"	4 Sol.	1/0 Str.	10	200.80
BL2622	2 1/2"	1 Str.	2/0 Str.	10	249.40
BL3104	3"	14 Sol.	4 Str.	5	253.50
BL3121	3"	4 Sol.	1/0 Str.	5	273.80
BL3124	3"	1/0 Str.	4/0 Str.	5	322.40
BL3604	3 1/2"	14 Sol.	4 Str.	5	309.50
BL3621	3 1/2"	4 Sol.	1/0 Str.	5	329.80
BL3624	3 1/2"	1/0 Str.	4/0 Str.	5	378.40
BL4104	4"	14 Sol.	4 Str.	5	375.50
BL4121	4"	4 Sol.	1/0 Str.	5	395.80
BL2124	4"	1/0 Str.	4/0 Str.	5	444.40
BL4604	4 1/2"	14 Sol.	4 Str.	1	593.90
BL4621	4 1/2"	4 Sol.	1/0 Str.	1	614.20
BL4624	4 1/2"	1/0 Str.	4/0 Str.	1	662.80
BL5104	5"	14 Sol.	4 Str.	1	754.90
BL5121	5"	4 Sol.	1/0 Str.	1	775.20
BL5124	5"	1/0 Str.	4/0 Str.	1	832.80
BL6104	6"	14 Sol.	4 Str.	1	1098.90
BL6121	6"	4 Sol.	1/0 Str.	1	1119.20
BL6124	6"	1/0 Str.	4/0 Str.	1	1167.80

O.Z. CONDUIT FITTINGS

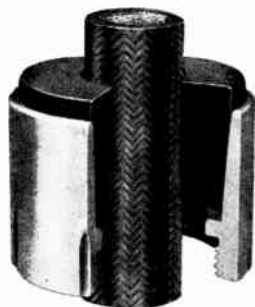
EXPANSION FITTINGS



Designed to compensate for expansion and contraction in a line of conduit. Prices include insulating bushings. Standard finish is hot dip galvanized. Types "EX" and "EXE" for heavy wall conduit and Type "TX" for thin wall conduit also available.

Cat. No.	Conduit Size	Each	Cat. No.	Conduit Size	Each
AX 50	1/2	\$3.08	AX200	2	\$11.84
AX 75	3/4	3.68	AX250	2 1/2	17.60
AX100	1	4.72	AX300	3	23.68
AX125	1 1/4	5.84	AX350	3 1/2	33.80
AX150	1 1/2	8.24	AX400	4	40.60
			AX500	5	58.60

TYPE "R" CABLE SUPPORTS



For One Wire



For Two or More Wires

Recommended for supporting soft Synthetic Rubber Covered Cables. One wire support takes all types of cables.

Conduit Size	Cat. No.	Body Only	One Wire		2 to 4 Same Size Wires		5 or More or Diff. Size Wires		Approx. Wt. Lbs.
			Plug Only	Com-plete	Plug Only	Com-plete	Plug Only	Com-plete	
1/2	R501	\$1.80	\$1.32	\$3.12	\$2.44	\$4.24			.25
3/4	R751	1.84	1.32	3.16	2.44	4.28			.38
1	R1001	1.92	1.72	3.64	2.80	4.72	\$3.40	\$5.32	.63
1 1/4	R1251	2.04	1.76	3.80	3.16	5.20	3.88	5.92	.75
1 1/2	R1501	2.48	2.08	4.56	3.84	6.32	4.72	7.20	1.3
2	R2001	4.32	2.36	6.68	4.20	8.52	5.08	9.40	1.6
2 1/2	R2501	4.88	2.68	7.56	4.68	9.56	5.64	10.52	2.5
3	R3001	6.40	3.52	9.92	5.68	12.08	6.72	13.12	3.8
3 1/2	R3501	9.00	4.44	13.44	6.60	15.60	7.64	16.64	5.1
4	R4001	10.20	6.60	16.80	8.80	19.00	9.84	20.04	6.5
5	R5001	20.00	10.96	30.96	13.20	33.20	14.24	34.24	13.0
6	R6001	34.96	16.44	51.40	18.72	53.68	19.76	54.72	18.0

Specify: (1) Type of Conductor. (2) Number of Conductors in the conduit. (3) Outside diameter of each.

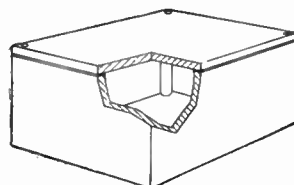
OTHER O.Z. CABLE SUPPORTS

- Type "S"—For two or more wires.
- Type "D"—Split type—For two or more wires.
- Type "DR"—Split type—For one or more wires.
- Type "CV"—Ventilating, Compound type.
- Type "C"—Non-ventilating, Compound type.
- Type "K"—Lock Type—For horizontal or inverted positions.
- Type "M"—For use where there is insufficient room for a cable support inside a junction box.
- Type "W"—Raintight enclosed cable support.

O.Z. CAST IRON JUNCTION BOXES

Standard Finish—Hot Dip Galvanized

TYPE "YS"



Unflanged Junction or Pull Box. Dust-tight, weatherproof.

For surface mounting.

Sizes available: 4" x 4" x 2" thru 48" x 6" x 6".

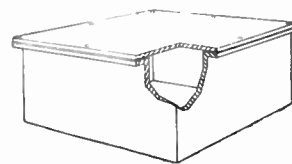
TYPE "YF"

Flat Flanged Box. Watertight (NEMA 4). Raintight Submersible*.

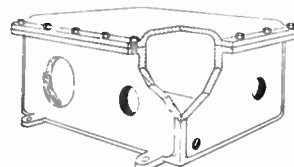
For surface mounting.

*Submersible under 20 ft. head of water.

Sizes available: 4" x 4" x 3" thru 36" x 18" x 12".



TYPE "YE"



For Hazardous Locations. Class I, Group D. Explosion - Proof (NEMA 7). Dust-tight, Weatherproof.

For surface mounting.

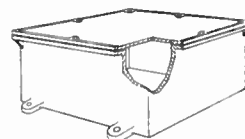
Sizes available: 4" x 4" x 2" thru 30" x 24" x 12".

TYPE "YG"

For Hazardous Locations. Class II, Groups E, F & G. (NEMA 9). Dust-tight, Watertight.

For surface mounting.

Sizes available: 4" x 4" x 3" thru 36" x 18" x 12".



TYPE "YW"



Hinged Cover Box. Watertight (NEMA 4). Raintight.

For surface mounting.

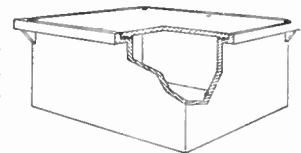
Sizes available: 5" x 5" x 3" thru 36" x 36" x 12".

TYPE "YR"

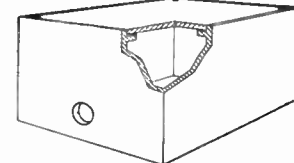
Outside flanged recessed cover box. Watertight (NEMA 4). Raintight.

For flush mounting.

Sizes available: 4" x 4" x 3" thru 30" x 24" x 12".



TYPE "YU"



Inside flanged recessed cover box. Dust-tight, weatherproof.

For flush mounting.

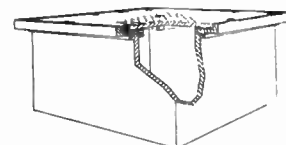
Sizes available: 4" x 4" x 2" thru 30" x 18" x 8"

TYPE "YT"

Checkered cover sidewalk box.

Sizes available: 6" x 6" x 4" thru 36" x 24" x 14".

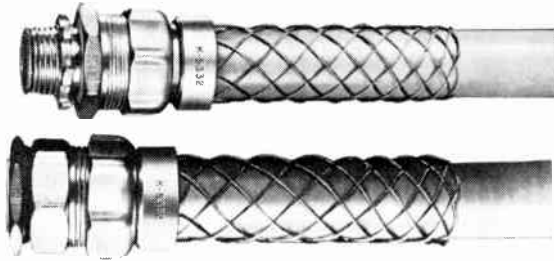
Contact your local Graybar office for complete range of sizes and prices.



KELLEMS GRIPS

GRIPS FOR SEALTITE® CONDUIT

With Thomas & Betts Fittings



Straight with Male Fittings

Trade Size Dimensions Dia. Lgth.	Insulated		Non-Insulated	
	Cat. No.	Each	Cat. No.	Each
* $\frac{3}{8}$ 3	074-06-011	\$2.75	074-06-001	\$2.65
$\frac{1}{2}$ 3 $\frac{1}{2}$	074-06-012	2.90	074-06-002	2.80
$\frac{3}{4}$ 4	074-06-013	3.70	074-06-003	3.50
1 5	074-06-014	4.45	074-06-004	4.25
1 $\frac{1}{4}$ 6	074-06-015	5.45	074-06-005	5.15
1 $\frac{1}{2}$ 6 $\frac{3}{4}$	074-06-016	8.25	074-06-006	7.90
2 8	074-06-017	12.80	074-06-007	12.50
2 $\frac{1}{2}$ 9 $\frac{3}{4}$	074-06-018	29.50	074-06-008	29.00
3 11	074-06-019	35.75	074-06-009	35.15
4 14	074-06-020	41.25	074-06-010	40.50

Straight With Female Fitting

Trade Size Dimensions Dia. Lgth.	Straight With Female Fitting		Straight With Chase Connector	
	Cat. No.	Each	Cat. No.	Each
* $\frac{3}{8}$ 3	074-06-021	\$2.75	074-06-078	\$2.85
$\frac{1}{2}$ 3 $\frac{1}{2}$	074-06-022	2.90	074-06-079	3.00
$\frac{3}{4}$ 4	074-06-023	3.60	074-06-080	3.80
1 5	074-06-024	4.40	074-06-081	4.60
1 $\frac{1}{4}$ 6	074-06-025	5.25	074-06-082	5.60
1 $\frac{1}{2}$ 6 $\frac{3}{4}$	.....	.....	074-06-083	8.45
2 8	.....	.....	074-06-084	13.00
2 $\frac{1}{2}$ 9 $\frac{3}{4}$	.....	.....	074-06-085	31.40
3 11	.....	.....	074-06-086	36.60
4 14	.....	.....	074-06-087	45.00

Sealing "O" Rings

Dia. In.	Cat. No.		Dia. In.	Cat. No.	
	No.	Each		No.	Each
$\frac{3}{8}$	205-09-001	\$0.13	1 $\frac{1}{2}$	205-09-005	\$0.43
$\frac{1}{2}$	205-09-001	.13	2	205-09-006	.53
$\frac{3}{4}$	205-09-002	.14	2 $\frac{1}{2}$	205-09-007	1.20
1	205-09-003	.21	3	205-09-008	1.65
1 $\frac{1}{4}$	205-09-004	.35	4	205-09-009	2.20

90° Angle Fittings

Trade Size Dimensions Dia. Lgth.	Insulated		Non-Insulated	
	Cat. No.	Each	Cat. No.	Each
* $\frac{3}{8}$ 3	074-06-061	\$3.10	074-06-041	\$3.00
$\frac{1}{2}$ 3 $\frac{1}{2}$	074-06-062	3.25	074-06-042	3.15
$\frac{3}{4}$ 4	074-06-063	4.15	074-06-043	3.95
1 5	074-06-064	5.55	074-06-044	5.35
1 $\frac{1}{4}$ 6	074-06-065	7.20	074-06-045	6.90
1 $\frac{1}{2}$ 6 $\frac{3}{4}$	074-06-066	9.75	074-06-046	9.40
2 8	074-06-067	14.60	074-06-047	14.30
2 $\frac{1}{2}$ 9 $\frac{3}{4}$	074-06-068	35.50	074-66-048	35.00
3 11	074-06-069	44.80	074-06-049	44.20
4 14	074-06-070	50.45	074-06-050	49.70

45° Angle Fittings

* $\frac{3}{8}$ 3	074-06-088	3.10	074-06-031	3.00
$\frac{1}{2}$ 3 $\frac{1}{2}$	074-06-089	3.25	074-06-032	3.15
$\frac{3}{4}$ 4	074-06-090	4.15	074-06-033	3.95
1 5	074-06-091	5.55	074-06-034	5.35
1 $\frac{1}{4}$ 6	074-06-092	7.20	074-06-035	6.90
1 $\frac{1}{2}$ 6 $\frac{3}{4}$	074-06-093	9.75	074-06-036	9.40
2 8	074-06-094	14.60	074-06-037	14.30
2 $\frac{1}{2}$ 9 $\frac{3}{4}$	074-06-095	35.50	074-06-038	35.00
3 11	074-06-096	44.80	074-06-039	44.20
4 14	074-06-097	50.45	074-06-040	49.70

*Flexible conduit size is $\frac{3}{8}$ ", fitting thread size is $\frac{1}{2}$ ".

DELUXE CORD GRIPS



Grip Diam. Range	Grip Length In.	Male Thread		Female Thread	
		Cat. No.	Each	Cat. No.	Each
Thread Size N.P.T.— $\frac{1}{2}$"					
074-01-					
.19-.25	2 $\frac{1}{4}$	004	\$3.60	074-01-039	\$3.80
.25-.31	2 $\frac{3}{4}$	005	3.60	040	3.80
.31-.37	3 $\frac{1}{8}$	006	3.60	041	3.80
.37-.44	3 $\frac{3}{8}$	007	3.60	042	3.80
.44-.50	4 $\frac{1}{4}$	008	3.60	043	3.80
.50-.56	4 $\frac{3}{8}$	009	3.60	044	3.80
.56-.62	4 $\frac{7}{8}$	010	3.60	045	3.80

Thread Size N.P.T.— $\frac{3}{4}$ "

074-01-					
Grip Diam. Range	Grip Length In.	Male Thread		Female Thread	
		Cat. No.	Each	Cat. No.	Each
.19-.25	2 $\frac{1}{4}$	011	4.00	046	\$4.50
.25-.31	2 $\frac{3}{4}$	012	4.00	047	4.50
.31-.37	3 $\frac{1}{8}$	013	4.00	048	4.50
.37-.44	3 $\frac{3}{8}$	014	4.00	049	4.50
.44-.50	4 $\frac{1}{4}$	015	4.00	050	4.50
.50-.56	4	016	4.00	051	4.50
.50-.62	4 $\frac{3}{8}$	017	4.00	052	4.50
.62-.75	6	018	4.50	053	5.00

Thread Size N.P.T.— 1"

074-01-					
Grip Diam. Range	Grip Length In.	Male Thread		Female Thread	
		Cat. No.	Each	Cat. No.	Each
.50-.62	4 $\frac{3}{8}$	019	5.50	054	\$6.00
.56-.69	4 $\frac{7}{8}$	020	5.50	055	6.00
.62-.75	6 $\frac{1}{4}$	021	5.50	056	6.00
.68-.81	5 $\frac{1}{2}$	022	5.50	057	6.00
.75-.87	5 $\frac{7}{8}$	023	5.50	058	6.00
.81-.94	5	024	5.50	059	6.00
.87-1.00	6	025	5.50	060	6.00

Thread Size N.P.T.— 1 $\frac{1}{4}$ "

074-01-					
Grip Diam. Range	Grip Length In.	Male Thread		Female Thread	
		Cat. No.	Each	Cat. No.	Each
.87-1.00	6	026	7.65	061	\$8.15
1.00-1.12	5 $\frac{3}{4}$	027	7.65	062	8.15
1.12-1.25	5 $\frac{7}{8}$	028	7.65	063	8.15

Thread Size N.P.T.— 1 $\frac{1}{2}$ "

074-01-					
Grip Diam. Range	Grip Length In.	Male Thread		Female Thread	
		Cat. No.	Each	Cat. No.	Each
.87-1.00	6	029	9.00	064	\$9.85
1.00-1.12	5 $\frac{1}{2}$	030	9.00	065	9.85
1.12-1.25	5 $\frac{3}{4}$	031	9.00	066	9.85
1.25-1.37	7 $\frac{1}{4}$	032	9.00	067	9.85

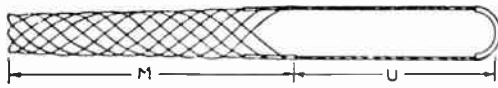
Also available in 2" size.

90° Male

Thread Size N.P.T.	Grip Diam. Range	Grip Length In.	Cat. No.	
			No.	Each
074-01-				
$\frac{1}{2}$ "	.19-.25	2 $\frac{1}{4}$	074	\$5.00
	.25-.31	2 $\frac{3}{4}$	075	5.00
	.31-.37	3 $\frac{1}{8}$	076	5.00
	.37-.44	3 $\frac{3}{8}$	077	5.00
	.44-.50	4 $\frac{1}{4}$	078	5.00
	.50-.56	4 $\frac{3}{8}$	079	5.00
.56-.62	4 $\frac{7}{8}$	080	5.00	

Also available in $\frac{3}{4}$ " and 1" sizes.

**KELLEMS BUS DROP GRIPS
STANDARD MODEL**



Made of galvanized plow steel strand. Aluminum shoulders and swaged aluminum eye.

Cat. No.	Nom. Grip Dia. In.	Cable Dia. Range In.	Dimens. Inches		Approx. Break. Str'th Lbs.	Each
			U	M		
073-04-						
001	1/4	.23-.31	3	3 3/4	350	\$0.72
002	5/16	.29-.37	4	4 1/4	350	.75
003	3/8	.35-.44	4	4 3/4	450	.79
004	7/16	.41-.50	5	5	450	.85
005	1/2	.46-.56	6	5 1/4	550	.92
006	5/8	.52-.62	7	6 1/4	1000	1.10
007	3/4	.58-.68	7	6 1/2	1000	1.18
008	7/8	.64-.75	7	6 3/4	1100	1.21
009	1	.70-.81	7	7 1/4	1100	1.24
010	1 1/8	.75-.87	8	8	1400	1.26
011	1 1/4	.81-.94	8	8 1/4	1400	1.31
012	1 1/2	.87-1.00	8	8 3/4	1500	1.35
013	1 5/8	.94-1.06	9	9	1500	1.40
014	1 3/4	1.00-1.18	9	9 1/2	1500	1.45
015	1 7/8	1.06-1.25	9	9 1/2	1500	1.50

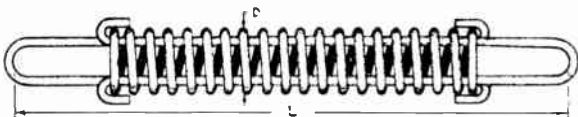
UNIVERSAL MODEL



With universal flexible bale for attachment to closed eyes, around pipe, etc.

Cat. No.	Nom. Grip Dia. In.	Cable Dia. Range In.	Dimens. Inches		Approx. Break. Str'th Lbs.	Each
			E	M		
073-04-						
016	1/4	.23-.31	9	3 3/4	350	\$1.02
017	5/16	.29-.37	10	4 1/4	350	1.08
018	3/8	.35-.44	10	4 3/4	450	1.16
019	7/16	.41-.50	11	5	450	1.24
020	1/2	.46-.56	12	5 1/4	550	1.35
021	5/8	.52-.62	13	6 1/4	1000	1.43
022	3/4	.58-.68	13	6 1/2	1000	1.50
023	7/8	.64-.75	13	6 3/4	1100	1.56
024	1	.70-.81	13	7 1/4	1100	1.63
025	1 1/8	.75-.87	14	8	1400	1.69
026	1 1/4	.81-.94	14	8 1/4	1400	1.72
027	1 1/2	.87-1.00	14	8 3/4	1500	1.75
028	1 5/8	.94-1.06	15	9	1500	1.77
029	1 3/4	1.00-1.18	15	9 1/2	1500	1.79
030	1 7/8	1.06-1.25	15	9 1/2	1500	1.82

BUS DROP SAFETY SPRING



Cat. No.	Max. Deflection	Break. Str'th. Lbs.	Dimens. Inches		Each
			L	D	
203-02-					
001	2 7/8"-45 lbs.	500	7 1/4	3/4	\$0.40
002	2 5/8"-110 lbs.	850	8 1/4	1	.75

**KELLEMS GRIPS
STRAIN RELIEF GRIPS**

For Use With Bus Drop Systems



A better strain relief at moderate price. Eliminates direct tension pull on terminals without damage to cable.

Made of mesh-galv. plow steel strand. Has neoprene seal and aluminum seal retainer. Swaged aluminum collar. Cadmium plated steel lock-nut. N.P.S. conduit threaded fitting.

Cat. No.	Nom. Grip Dia. In.	Cable Dia. Range In.	Dim. M	Fitting Thread Size N.P.S.	Each
001	1/4	.23-.31	2 3/4	1/2	\$1.04
002	5/16	.29-.37	3 1/4	1/2	1.09
003	3/8	.35-.44	3 3/4	1/2	1.15
004	7/16	.41-.50	4	1/2	1.21
005	1/2	.46-.56	4 1/4	1/2	1.27
006	5/8	.52-.62	4 1/2	3/4	1.33
007	3/4	.58-.68	4 3/4	3/4	1.38
008	7/8	.64-.75	5	3/4	1.44
009	1	.70-.81	5 1/2	1	1.50
010	1 1/8	.75-.87	5 3/4	1	1.57
011	1 1/4	.81-.94	6	1	1.65
012	1 1/2	.87-1.00	6 1/2	1	1.73
013	1 5/8	.94-1.06	6 3/4	1 1/4	1.83
014	1 3/4	1.00-1.18	7 1/4	1 1/4	1.95
015	1 7/8	1.06-1.25	8 3/4	1 1/4	2.09

GRIPS FOR SEALTITE® CONDUIT

With Appleton Fittings



Trade Size Dimensions Size Length	Straight With Female Fitting		Straight With Male Fitting	
	Cat. No.	Each	Cat. No.	Each
* 3/8 3	074-02-021	\$2.75	074-02-001	\$2.65
1/2 3 1/2	074-02-022	2.90	074-02-002	2.80
3/4 4	074-02-023	3.60	074-02-003	3.50
1 5	074-02-024	4.40	074-02-004	4.25
1 1/4 6	.....	.....	074-02-005	5.15
1 1/2 6 3/4	.....	.....	074-02-006	7.90
2 8	.....	.....	074-02-007	12.50
2 1/2 9 3/4	.....	.....	074-02-008	29.00
3 11	.....	.....	074-02-009	35.15
4 14	.....	.....	074-02-010	40.50

Trade Size Dimensions Size Length	Straight With Insulated Throat	
	Cat. No.	Price Each
* 3/8 3	074-02-011	\$2.75
1/2 3 1/2	074-02-012	2.90
3/4 4	074-02-013	3.70
1 5	074-02-014	4.45
1 1/4 6	074-02-015	5.45
1 1/2 6 3/4	074-02-016	8.25
2 8	074-02-017	12.80

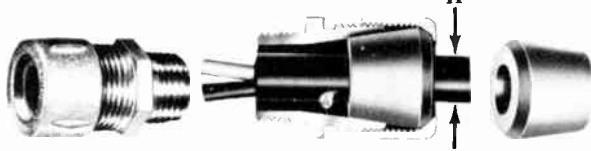
Trade Size Dimensions Size Length	90° Angle Fitting		45° Angle Fitting	
	Cat. No.	Each	Cat. No.	Each
* 3/8 3	074-02-041	\$3.00	074-02-031	\$3.00
1/2 3 1/2	074-02-042	3.15	074-02-032	3.15
3/4 4	074-02-043	3.95	074-02-033	3.95
1 5	074-02-044	5.35	074-02-034	5.35
1 1/4 6	074-02-045	6.90	074-02-035	6.50
1 1/2 6 3/4	074-02-046	9.40	074-02-036	9.40
2 8	074-02-047	14.30	074-02-037	14.30
2 1/2 9 3/4	074-02-048	35.00	074-02-038	35.00
3 11	074-02-049	44.20	074-02-039	44.20
4 14	074-02-050	49.70	074-02-040	49.70

*Flexible conduit size is 3/8," fitting thread size is 1/2".

RALCO

Division Harvey Hubbell, Inc.

MALE CORD GRIPS



Type RCG-110

Type CGB

Designed for plain and portable rubber cords and cables N.E.C. Types S, SJ, T, TJ, W, G and bus drop.

Cord Grip —w/Bushing— Cat. No.		Each	Conduit Size In.	Max.	H	Min.	Neoprene Bushing Cat. No.		Each
RCG-	005	\$0.48	3/8	.3125		.250	CGB-	005	\$0.16
	006	.48	3/8	.375		.3125		006	.16
	007	.48	3/8	.4375		.375		007	.16
	1005	.48	1/2	.3125		.250		1005	.16
	1006	.48	1/2	.375		.3125		1006	.16
	1007	.48	1/2	.4375		.375		1007	.16
	104	.56	1/2	.250		.1875		104	.24
	105	.56	1/2	.3125		.250		105	.24
	106	.56	1/2	.375		.3125		106	.24
	107	.56	1/2	.4375		.375		107	.24
	108	.56	1/2	.500		.4375		108	.24
	109	.56	1/2	.5625		.500		109	.24
	110	.56	1/2	.625		.5625		110	.24
	1209	1.48	1/2	.5625		.4375		1209	.....
	1210	1.48	1/2	.625		.500		1210	.....
	1211*	1.48	1/2	.6875		.5625		1211*	.....
	1212*	1.48	1/2	.750		.625		1212*	.....
	1213*	1.48	1/2	.8125		.6875		1213*	.....
	2104	.80	3/4	.250		.1875		2104	.24
	2105	.80	3/4	.3125		.250		2105	.24
	2106	.80	3/4	.375		.3125		2106	.24
	2107	.80	3/4	.4375		.375		2107	.24
	2108	.80	3/4	.500		.4375		2108	.24
	2109	.80	3/4	.5625		.500		2109	.24
	2110	.80	3/4	.625		.5625		2110	.24
	209	1.28	3/4	.5625		.4375		209	.40
	210	1.28	3/4	.625		.500		210	.40
	211	1.28	3/4	.6875		.5625		211	.40
	212	1.28	3/4	.750		.625		212	.40
	213*	1.28	3/4	.8125		.6875		213*	.40
	309	1.36	1	.5625		.4375		309	.40
	310	1.36	1	.625		.500		310	.40
	311	1.36	1	.6875		.5625		311	.40
	312	1.36	1	.750		.625		312	.40
	313	1.36	1	.8125		.6875		313	.40
	314	1.36	1	.875		.750		314	.40
	315	1.36	1	.9375		.8125		315	.40
	3416	2.00	1	1.000		.875		3416	.....
	3418*	2.00	1	1.125		1.000		3418*	.....
	3420*	2.00	1	1.250		1.125		3420*	.....
	3422*	2.00	1	1.375		1.250		3422*	.....
	416	2.08	1 1/4	1.000		.875		416	.56
	418	2.08	1 1/4	1.125		1.000		418	.56
	420	2.08	1 1/4	1.250		1.125		420	.56
	422*	2.08	1 1/4	1.375		1.250		422*	.56
	516	2.80	1 1/2	1.000		.875		516	.56
	518	2.80	1 1/2	1.125		1.000		518	.56
	520	2.80	1 1/2	1.250		1.125		520	.56
	522	2.80	1 1/2	1.375		1.250		522	.56
	623	4.16	2	1.4375		1.3125		623	.88
	625	4.16	2	1.5625		1.4375		625	.88
	627	4.16	2	1.6875		1.5625		627	.88
	629	4.16	2	1.8125		1.6875		629	.88
	729	6.80	2 1/2	1.8125		1.6875		729	1.96
	731	6.80	2 1/2	1.9375		1.8125		731	1.96
	733	6.80	2 1/2	2.0625		1.9375		733	1.96
	735	6.80	2 1/2	2.1875		2.0625		735	1.96
	737	6.80	2 1/2	2.3125		2.1875		737	1.96
	831	9.20	3	1.9375		1.8125		831	1.96
	833	9.20	3	2.0625		1.9375		833	1.96
	835	9.20	3	2.1875		2.0625		835	1.96
	837	9.20	3	2.3125		2.1875		837	1.96
	839	9.20	3	2.4375		2.3125		839	1.96

Also available in 45° and 90°
*Cable must be stripped to go through bore of the body.
Listed by Underwriters' Laboratories, Inc.

**CORD GRIP WITH KELLEMS
STAINLESS STEEL WIRE MESH**



The "RCGK" and "RCGFK" series of cord grips include a double stranded, stainless steel, wire mesh attachment. The addition of this accessory provides positive "arc of bend" control and at the same time eliminates any possibility of electrical failures as a result of extraordinary longitudinal stresses to which the cable may be subjected.

Male Pipe Thread Cat. No.	Each	Nipple Size In. For Conduit Opening	H. Inches Mn. Mx.	Female Pipe Thread Cat. No.	Each
RCGK-104	\$4.12	1/2	3/16-1/4	RCGFK-104	\$4.36
RCGK-105	4.12	1/2	1/4-5/16	RCGFK-105	4.36
RCGK-106	4.12	1/2	5/16-3/8	RCGFK-106	4.36
RCGK-107	4.12	1/2	3/8-7/16	RCGFK-107	4.36
RCGK-108	4.12	1/2	7/16-1/2	RCGFK-108	4.36
RCGK-109	4.12	1/2	1/2-9/16	RCGFK-109	4.36
RCGK-110	4.12	1/2	9/16-5/8	RCGFK-110	4.36
RCGK-204	.....	3/4	3/16-1/4	RCGFK-204	.....
RCGK-205	.....	3/4	1/4-5/16	RCGFK-205	.....
RCGK-206	.....	3/4	5/16-3/8	RCGFK-206	.....
RCGK-207	.....	3/4	3/8-7/16	RCGFK-207	.....
RCGK-208	.....	3/4	7/16-3/8	RCGFK-208	.....
RCGK-209	.....	3/4	7/16-9/16	RCGFK-209	.....
RCGK-210	.....	3/4	1/2-5/8	RCGFK-210	.....
RCGK-212	5.16	3/4	5/8-3/4	RCGFK-212	5.16
RCGK-310	6.28	1	1/2-5/8	RCGFK-310	6.28
RCGK-311	6.28	1	5/8-3/4	RCGFK-311	6.28
RCGK-312	6.28	1	3/4-7/8	RCGFK-312	6.28
RCGK-313	6.28	1	7/8-1	RCGFK-313	6.28
RCGK-314	6.28	1	3/4-7/8	RCGFK-314	6.28
RCGK-315	6.28	1	7/8-1 1/8	RCGFK-315	6.28
RCGK-416	8.76	1 1/4	7/8-1	RCGFK-416	8.76
RCGK-418	8.76	1 1/4	1-1 1/8	RCGFK-418	8.76
RCGK-420	8.76	1 1/4	1 1/8-1 1/4	RCGFK-420	8.76
RCGK-516	10.28	1 1/2	7/8-1	RCGFK-516	10.28
RCGK-518	10.28	1 1/2	1-1 1/8	RCGFK-518	10.28
RCGK-520	10.28	1 1/2	1 1/8-1 3/8	RCGFK-520	10.28
RCGK-522	10.28	1 1/2	1 1/4-1 3/8	RCGFK-522	10.28
RCGK-625	13.72	2	1 7/8-1 7/8	RCGFK-625	13.72
RCGK-627	13.72	2	1 9/8-1 11/8	RCGFK-627	13.72
RCGK-629	13.72	2	1 11/8-1 13/8	RCGFK-629	13.72

Also available in 45° and 90°.

EXPLOSION PROOF UNIONS

Class I, Group A, B, C & D; Class II, Group F & G



Type UM

Type U

Type UL

Size In.	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
1/2 x 1/2	UM-1	\$1.20	U-1	\$0.76	UL-1	\$2.24
3/4 x 1/2	UM-21	.85	U-2	1.04	UL-2	2.24
3/4 x 3/4	UM-2	1.08	U-3	1.92	.....	.....
1 x 1	UM-3	2.08	.....	.....	.....	.....

Listed by Underwriters' Laboratories, Inc.

C-P FITTINGS

Division Essex Wire Corp.

FITTINGS FOR LIQUIDS-GASES

SAE 45° FLARE (BRASS)



MALE CONNECTOR

Order By Stock Number	Size	Per C
248x2	1/8 x 1/8	\$35.60
248x3	1/8 x 1/8	21.80
248x3x4	1/8 x 1/4	85.00
248x4	1/4 x 1/8	23.00
248x4x4	1/4 x 1/4	38.40



MALE ELBOW

Order By Stock Number	Size	Per C
249x2	1/8 x 1/8	\$72.40
249x3	1/8 x 1/8	40.25
249x4	1/4 x 1/8	44.10
249x4x4	1/4 x 1/4	65.45



FLARE TEE

Order By Stock Number	Size	Per C
244x3	3/16	\$68.85
244x4	1/4	72.40

STEEL PIPE



HEX NIPPLE

Part No.	Each
911x2	\$.36
911x4	.46
911x4x2	.58
911x6	.64
911x6x2	.74



90° STREET ELBOW

Part No.	Each
914x2	\$1.22
914x4	1.20
914x6	1.36
914x8	1.74
914x12	2.52
914x16	3.76



TEE

Part No.	Each
917x4	\$1.58
917x6	1.94
917x8	2.36
917x12	5.76
917x16	5.88

BRASS PIPE



PIPE LONG NIPPLE

Order By Stock Number	Size	Per C
23325x2	1/8	\$21.90
23325x4x2	1/4 x 1/8	53.10
23325x4	1/4	40.65
23325x4	1/4	48.50



REDUCING PIPE ADAPTER

Order By Stock Number	Size	Per C
23224x2	1/4 x 1/8	\$23.40
23224x2	1/4 x 1/8	30.50
23226x2	3/8 x 1/8	44.70
23226x4	3/8 x 1/4	37.40
23226x4	3/8 x 1/4	34.80



STREET 90° ELBOW

Order By Stock Number	Size	Per C
23400x2	1/8	\$37.55
23400x4	1/4	64.25

SAE 37° FLARE (STEEL)



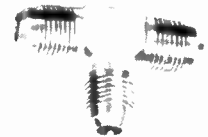
MALE CONNECTOR

Part No.	Each
816Bx4	\$.28
816Bx4x4	.38
816Bx5	.30
816Bx5x4	.47
816Bx6	.35
816Bx6x2	.38
816Bx6x6	.62
816Bx6x8	.87
816Bx8	.57



90° MALE ELBOW

Part No.	Each
822Bx4	\$1.03
822Bx4x4	1.47
822Bx5	1.10
822Bx5x4	1.48
822Bx6	1.27
822Bx6x2	1.63
822Bx6x6	1.94
822Bx6x8	1.97
822Bx8	1.63



TEE UNION

Part No.	Each
824Bx4	\$1.37
824Bx5	1.63
824Bx6	1.91
824Bx8	2.75
824Bx10	3.60
824Bx12	4.81

SAE COMPRESSION (BRASS)



COMP. MALE CONNECTOR

Part No.	Tube	Pipe	Per C
268x2	1/8	1/8	\$36.15
268x3	1/8	1/8	37.75
268x4	1/4	1/8	39.50
268x4x4	1/4	1/4	52.70



COMP. 90° ELBOW

Order By Stock Number	Size	Per C
269x2	1/8 x 1/8	\$46.10
269x3	1/8 x 1/8	48.55
269x3x4	1/8 x 1/4	74.30
269x4	1/4 x 1/8	50.75
269x4x4	1/4 x 1/4	59.90



COMP. TEE

Order By Stock Number	Size	Per C
264x2	1/8	\$122.25
264x3	1/8	104.10
264x4	1/4	111.75

PRECISION GRIP (BRASS)



MALE CONNECTOR

Part No.	Tube	Pipe	Per C
282x2	1/8	1/8	\$21.80
282x3	1/8	1/8	23.30
282x4	1/4	1/8	23.30
282x4x4	1/4	1/4	28.70
282x5	1/8	1/8	25.58
282x5x4	1/8	1/4	29.78
282x6	3/8	1/4	32.72
282x6x6	3/8	3/8	36.91
282x8	1/2	3/8	43.19
282x8x8	1/2	1/2	57.46



90° MALE ELBOW

Part No.	Tube	Pipe	Per C
184x2	1/8	1/8	\$25.76
184x3	1/8	1/8	26.98
184x4	1/4	1/8	30.41
184x4x4	1/4	1/4	36.18
184x5	1/8	1/8	38.63
184x5x4	1/8	1/4	40.34
184x6	3/8	1/4	48.19
184x6x6	3/8	3/8	50.28
184x8	1/2	3/8	68.30
184x8x8	1/2	1/2	71.73



TEE

Part No.	Tube	Per C
187x2	1/8	\$ 72.96
187x3	1/8	75.42
187x4	1/4	69.90
187x5	1/4	87.07
187x6	3/8	98.10
187x8	1/2	138.57

SAE FLARELESS (STEEL)



MALE CONNECTOR

Part No.	Each
716x4	\$.75
716x4x4	.85
716x5	.85
716x5x4	1.65
716x6	.95
716x6x2	1.10
716x6x6	1.21
716x6x8	1.90
716x8	1.38
716x8x4	1.60
716x8x8	1.65
716x10	1.72



90° MALE ELBOW

Part No.	Each
722x4	\$1.65
722x4x4	1.95
722x5	1.91
722x5x4	2.42
722x6	2.07
722x6x2	2.25
722x6x6	2.80
722x6x8	3.43
722x8	2.66
722x8x4	2.80
722x8x8	3.41
722x10	3.42



TEE UNION

Part No.	Each
724x4	\$2.90
724x5	3.29
724x6	3.70
724x8	5.05
724x10	6.74
724x12	8.54
724x14	11.00
724x16	14.12

Quantity discounts available. Contact Graybar.

CADDY®

TWIST CLIPS



For mounting electrical fixtures to exposed acoustical ceilings.

Cat. No.	Stud Lgth. In.	Per 100
4-G-16	5/8	\$4.00
4-G-16-1.5	1 1/2	5.25
4-G-16-2	2	5.50
4-G-16-3	3	6.34

No. 4WN Combination Washer Wing Nut (1/4" thread impression by 1 1/4" diameter).

CONDUIT CLIPS



Cat. No.	Conduit Size Inches	Mtg. Hole In.	Per 100
6-M	3/8	9/32 *	\$5.75
8-M	1/2	9/32 *	5.75
12-M	3/4	9/32 *	6.35
16-M	1	9/32 *	8.25
20-M	1 1/4	9/32 *	10.00
24-M	1 1/2	9/32 *	11.00
32-M	2	9/32 *	12.00
8-M-41	1/2	1/4-20 †	5.75
12-M-41	3/4	1/4-20 †	6.35
16-M-41	1	1/4-20 †	8.25
20-M-41	1 1/4	1/4-20 †	10.00
24-M-41	1 1/2	1/4-20 †	11.00
32-M-41	2	1/4-20 †	12.00

*Plain. †Thread impression.

CONDUIT BRACKETS



Cat. No.	Beam Size Inches	Per 100
M-2-4	1/8-1/4	\$14.00
M-5-8	1/8-1/2	14.00

COMBINATION CONDUIT HANGERS



Cat. No.	Conduit Size Inches	Flange Size Inches	Per 100
6-M-2-4	3/8	1/4 to 1/4	\$22.75
6-M-5-8	3/8	1/8 to 1/2	22.75
8-M-2-4	1/2	1/4 to 1/4	22.75
8-M-5-8	1/2	1/8 to 1/2	22.75
12-M-2-4	3/4	1/8 to 1/4	23.35
12-M-5-8	3/4	1/8 to 1/2	23.35
16-M-2-4	1	1/4 to 1/4	25.25
16-M-5-8	1	1/8 to 1/2	25.25
20-M-2-4	1 1/4	1/4 to 1/4	27.00
20-M-5-8	1 1/4	1/8 to 1/2	27.00
24-M-2-4	1 1/2	1/4 to 1/4	28.00
24-M-5-8	1 1/2	1/8 to 1/2	28.00
32-M-2-4	2	1/4 to 1/4	29.00
32-M-5-8	2	1/8 to 1/2	29.00

KON CLIPS



Cat. No.	Description	Per 100
K-8	1/2" EMT to 1/4" and smaller*	\$7.50
K-12	3/4" EMT to 1/4" and smaller*	8.25
K-16	1" EMT to 1/4" and smaller*	9.00
K-20	1 1/4" EMT to 1/4" and smaller*	11.50

*Rods or flanges.

HEAVY DUTY FLANGE CLIPS

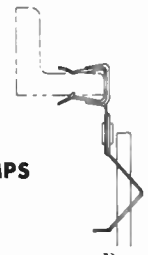
Cat. No.	Flange Size Inches	Per 100
4-H-2-4	1/4-1/4	\$10.00
4-H-5-8	1/8-1/2	10.00
4-H-9-12	1/8-3/4	12.00
2-H-4-*	3/2-6 1/4	6.50

*For bulb tees.



CADDY®

ROD HANGER CLAMPS "BEAM CLAMPS"



Cat. No.	Flange Thickness Inches	Rod Size	Per 100
2-A-2-4	1/8-1/4	#8 Wire	\$17.00
2-A-5-8	1/8-1/2	#8 Wire	17.00
2-A-9-12	1/8-1/4	#8 Wire	19.00
3-A-2-4	1/8-1/4	3/8" *	17.00
3-A-5-8	1/8-1/2	3/8" *	17.00
3-A-9-12	1/8-1/4	3/8" *	19.00
4-A-2-4	1/8-1/4	1/4" *	17.00
4-A-5-8	1/8-1/2	1/4" *	17.00
4-A-9-12	1/8-1/4	1/4" *	19.00
6-A-2-4	1/8-1/4	3/8" **	17.00
6-A-5-8	1/8-1/2	3/8" **	17.00
6-A-9-12	1/8-1/4	3/8" **	19.00
4-TI-2-4	1/8-1/4	1/4" †	18.00
4-TI-5-8	1/8-1/2	1/4" †	18.00
4-TI-9-12	1/8-1/4	1/4" †	20.00
6-TI-2-4	1/8-1/4	3/8" †	18.00
6-TI-5-8	1/8-1/2	3/8" †	18.00
6-TI-9-12	1/8-1/4	3/8" †	20.00
6-TA-2-4	1/8-1/4	1/4" or 3/8" ††	17.00
6-TA-5-8	1/8-1/2	1/4" or 3/8" ††	17.00
6-TA-9-12	1/8-1/4	1/4" or 3/8" ††	19.00

*Plain. †Threaded. ††Nuts required.

LATHERS CHANNEL CLAMPS



Cat. No.	Description	Per 100
2-B-1.5L	#8 Wire to 1 1/2" Channel	\$10.00
3-B-1.5L	3/8" Rod to 1 1/2" Channel	10.00
4-B-1.5L	1/4" Rod to 1 1/2" Channel	10.00
6-B-1.5L	3/8" Rod to 1 1/2" Channel	10.00
4-B-2L	1/4" Rod to 2" Channel	12.00

EFCOR CONDUIT FITTINGS

ALLWAY BEAM CLAMP



Each clamp holds either one or two conduits—each conduit grip takes two sizes. Clamping section can be swiveled to any plane, all angles—becomes a 90°, edge or parallel clamp. Malleable iron.

Cat. No.	E.M.T. Size In.	Wt. Lbs. Std. Pkg.	Unit Qty.	Std. Pkg.	Per 100
JB-50	1/2, 3/4	52	25	100	\$59.90
JB-100	1, 1 1/4	41	10	50	88.20
JB-150	1 1/2, 2	38	5	25	115.50

JAY CLAMPS



For right angle (90°) and parallel conduit runs. Malleable iron—hot dip galvanized.

For special applications (threaded rod, bridle rings, etc.), jay clamps may be supplied with holes tapped in bottom. When ordering, add suffix "H" to catalog number.

Cat. No.	E.M.T. Size In.	Wt. Lbs. Std. Pkg.	Unit Qty.	Std. Pkg.	Per 100
J-50	1/2	29	25	100	\$27.30
J-75	3/4	35	25	100	33.10
J-100	1	26	10	50	41.00
J-125	1 1/4	40	10	50	54.10
J-150	1 1/2	20	....	20	67.20
J-200	2	28	....	20	100.80
J-250	2 1/2	20	....	10	136.50
J-300	3	27	....	10	189.00
J-350	3 1/2	14	....	4	241.50
J-400	4	17	....	4	420.00
J-500	5	8	....	1	1050.00

MINERALLAC JIFFY CLIP

Made in Everdur and zinc-plated steel to meet the demand for a substantial clamp for hanging pipe, conduit and lead covered cables. With this clip only one screw or bolt is required to hold the pipe, conduit or cable and clip firmly in place. It is made to afford great strength without being heavy or bulky, by having ribs drawn in the clip. A round emboss is also raised on the clip, through which is a hole for the screw or bolt. This emboss serves the purpose of a lock washer to prevent the clip from working loose.

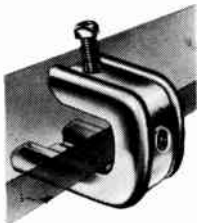


By use of this clip the labor as well as the clip cost is greatly reduced and at the same time a very neat and substantial job is possible. Made for various sizes of conduit and pipe as specified.

No. Cat.	Cop. Tube	Rigid	EMT	BX	Std. Pkg.	Steel		Everdur	
						Pkg. Wt.	Price Per 100	Pkg. Wt.	Price Per 100
102	1/8	.....	.....	.....	500	2.25	\$0.80	2.5	\$2.65
103	1/8	.....	.....	.....	500	2.7	.85	2.8	2.75
105	1/8	.....	.....	.....	500	3	.90	3.25	2.80
110	1/8	.....	.....	.....	500	3.2	1.00	3.5	2.90
115	1/8	.....	.....	.....	500	6.25	1.15	7.25	3.90
120	1/8	.....	.....	.....	500	6.75	1.25	7	3.25
125	1/8	.....	.....	.....	500	7.2	1.40	8.1	3.80
130	1/8	.....	.....	BX	200	5.4	1.65	5.75	6.00
135	1/8	.....	.....	.....	100	2.7	1.70	3	6.60
140	1/8	.....	.....	.....	100	4	1.75	4.5	7.55
145	1/8	.....	.....	.....	100	4	2.20	4.5	8.70
150	1/8	.....	.....	.....	100	4.5	2.50	5	9.60
155	1/8	.....	.....	.....	100	4.7	3.05	5	13.10
160	1/8	.....	.....	.....	100	8.3	3.70	8.75	16.30
165	1/8	.....	.....	.....	100	9	4.25	9.5	19.00
170	1/8	.....	.....	.....	100	13	4.90	14.25	21.75

Shipment in standard package only.

MINERALLAC BEAM CLAMPS



Used with Minerallac Hangers—Drop Rods—etc. Made of heavy gauge pressed steel, zinc plated. Come complete with case hardened set screw.

Cat. No.	Drop Rod Inches	Flange Thickness	Std. Pkg.	Wt. Lbs.	Price Per 100
600	1/4	1/2	50	6 1/2	\$17.60
600-10	10-24	1/2	50	6 1/2	17.60
602	3/8	3/4	25	8 1/4	37.50
602-B	3/8	3/4	25	8 1/4	41.25

MINERALLAC HANGERS

MIN-A-CLIP

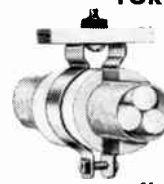


For fastening conduit or pipe to the Bulb Tee sub purlin rails of poured gypsum deck roofs. May be installed during construction, or after completion of the roof without damage to the insulating material, without drilling holes, shooting studs or providing special brackets. The hanger can be turned on its

rivet so that the conduit or pipe may be run parallel to, or at right angles to the Tee Iron, eliminating bends and fittings. Zinc-plated steel.

Cat. No.	Fits		Std. Pkg.	Shpg. Wt. Lbs.	Price Per 100
	Rigid	EMT			
MC-0	3/8-1/2	1/2	100	15.5	\$19.00
MC-1	3/4	3/4	100	16.75	20.00
MC-2	1	1	100	18.25	21.50
MC-2 1/2	.....	1 1/4	100	19.25	22.25
MC-3	1 1/4	1 1/2	100	20	23.00

MINERALLAC HANGERS FOR CONDUIT AND CABLE



These hangers are made of zinc-plated steel or Everdur metal, and are much stronger than cast iron hangers for the same purpose. They are easily and quickly put in place, so open wiring, conduit and cable may be run with greater rapidity and be

more compactly arranged than by the use of other hangers.

These hangers have been approved by the Underwriters' Laboratories for use on circuits up to 300 volts when mounted directly on the surface wired over. For voltages from 300 to 550 volts these hangers must be installed with spacers under the base of the hanger or mounted on metal racks or brackets so as to hold the conductors at least one inch from the surface wired over. For voltages above 550 volts the hangers should be used with an appropriate insulating bushing having necessary dielectric strength, the hangers being mounted on metal racks or brackets to hold the conductors far enough from the surface wired over to preserve the required electrical clearance.

Cat. No.	Fits		Std. Pkg.	Steel		Everdur	
	Rigid	EMT		Pkg. Wt.	Price Per 100	Pkg. Wt.	Price Per 100
0	3/8-1/2	1/2	100	5	\$4.50	5.6	\$13.50
1	3/4	3/4	100	6 1/2	5.00	7 1/4	15.00
2	1	1	100	8	6.65	8 1/2	19.95
2 1/2	.....	1 1/4	100	8 1/4	7.00	10	21.00
3	1 1/4	1 1/2	100	10	7.25	10 1/2	21.75
4	1 1/2	.....	100	16	8.95	17 1/2	31.50
5	2	2	50	12	9.65	13 1/2	40.00
6	2 1/2	.....	50	13	10.70	15	47.15
7	3	.....	25	8 1/2	11.95	9	51.00
8	3 1/2	.....	25	9	14.00	10	56.00
9	4	.....	10	7.8	50.00	.....	.....

Aluminum

Cat. No.	Fits		Std. Pkg.	Pkg. Wt.	Price Per 100
	Rigid	EMT			
0	3/8-1/2	1/2	100	2	\$ 5.85
1	3/4	3/4	100	2.5	6.50
2	1	1	100	3	8.65
2 1/2	.....	1 1/4	100	3.3	9.10
3	1 1/4	1 1/2	100	3.6	9.45
4	1 1/2	.....	100	6	11.65
5	2	2	50	4.5	12.55
6	2 1/2	.....	50	5	13.90
7	3	.....	25	3.25	15.55
8	3 1/2	.....	25	3.5	18.20
9	4	.....	10	3	65.00

STUD CLIP

For fastening outlet boxes to the Bulb Tee sub purlin rails of poured gypsum deck roofs. Has 10/24 stud. Ideal for mounting 8B or 1900 outlet boxes on the Bulb Tee Iron.



One clip on each side of the Tee, lines the studs up perfectly for the box mounting holes — prevents turning or loosening. Zinc-plated steel.

Cat. No.	Fits	Std. Pkg.	Shpg. Wt. Lbs.	Price Per 100
SCL	Large (2 1/8") Tee Iron	100	12.5	\$17.00
SCS	Small (1 3/8") Tee Iron	100	12.5	17.00
SCL.4	Large Tee Iron (1/4" Stud for use where weight demands heavier bolt)	100	12.5	18.00
SC.25	Large or Small Tee Iron (w/o stud, embossed for 1/4-20 Fl. Hd. Screw*)	100	12	16.00

*Screws not included.

TWO-PIECE STUD CLIP

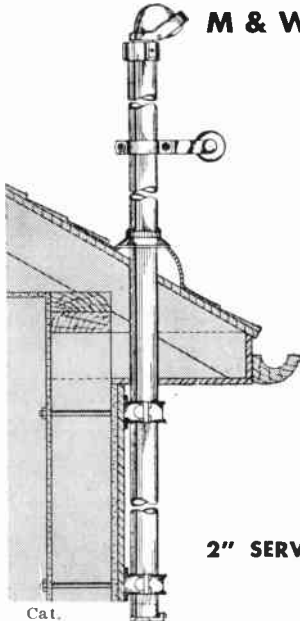


A two-piece clip for mounting boxes, hangers or fixtures to Tee Irons or Beams heavier than the 1" T-Bar. Will fit flanges from 1 1/8" to 2 5/8" width and up to

1/4" thick. Has 1/4"-20 Stud with square shoulder.

2SC-4	Large or Small Tee Iron	100	11	\$16.50
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M & W SERVICE MASTS



2" SERVICE MAST FITTINGS

Cat. No.	Description	Std. Pkg.	Each
2400	2" x 1 1/4" Slipfitter Cap	10	\$1.55
4000	2" Insulator Bracket	10	.90
2900	2" Flashing & Seal	25	1.60
2350	2" HDG M.I. Brkt. with 1/2 x 10 bolt	25	.93
2350-L	2" HDG M. I. Brkt. with 3/8 x 3 lag	25	.78
PS-7-L	2" Pipe Strap with 3/8 x 3 lag	30	.35
2200	2" — 1 1/4" Offset Bottom Reducer with 1 1/4" cl. nipple	50	1.00
4200	1 1/4" to 2 1/2" Ins. Bracket	20	.85

2 1/2" SERVICE MAST FITTINGS

Cat. No.	Description	Pkg.	Each
2600	2 1/2" — 1 1/4" Slipfitter Cap	10	\$1.95
4050	2 1/2" Insulator Bracket	10	.95
3000	2 1/2" Flashing & Seal	25	1.65
2850	2 1/2" HDG M.I. Brkt. with 1/2 x 10 bolt	25	1.03
2850-L	2 1/2" HDG M.I. Brkt. with 3/8 x 3 lag	25	.88
PS-8-L	2 1/2" Pipe Strap with 3/8 x 3 lag	30	.45
2700	2 1/2" — 1 1/4" Offset Bottom Reducer with 1 1/4" cl. nipple	25	1.20
2650	2 1/2" — 2 Slipfitter Cap	5	3.25

2" CONDUIT SIZE KIT

Basic kit contains: #2900, #2400, 3 PS-7 and lags and #2200.

Cat. No.	Description	Std. Pkg.	Each
SM-200-SF	Basic Kit	5	\$5.10
SM-200-SF3	Basic Kit with 3 insulators	5	7.75
CM-200-SF1	Basic Kit with 1 insulator	5	5.95

Basic kit contains: #2900, #2400, 2 #2350 and #2200X.

Cat. No.	Description	Std. Pkg.	Each
SM-200-BF	Basic Kit	5	\$5.90
SM-200-BF3	Basic Kit with 3 insulators	5	8.50
SM-200-BF1	Basic Kit with 1 insulator	5	6.70

2 1/2" CONDUIT SIZE KIT

Basic kit contains: #3000, #2600, 3 PS-8 and lags and #2700.

Cat. No.	Description	Std. Pkg.	Each
SM-250-SF	Basic Kit	5	\$6.15
SM-250-SF3	Basic Kit with 3 insulators	5	9.00
SM-250-SF1	Basic Kit with 1 insulator	5	7.10

Basic kit contains #3000, #2600, 2 #2850 and #2700X.

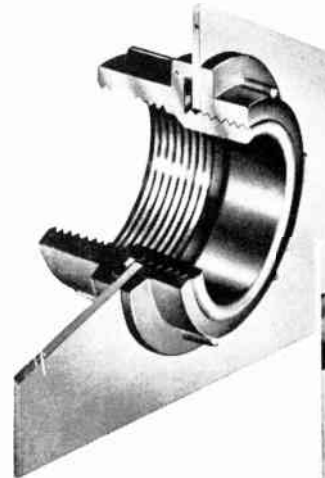
Cat. No.	Description	Std. Pkg.	Each
SM-250-BF	Basic Kit	5	\$6.85
SM-250-BF3	Basic Kit with 3 insulators	5	9.70
SM-250-BF1	Basic Kit with 1 insulator	5	7.80

MYERS SCRU-TITE FITTINGS

FOR CONDUIT AND PIPE



A liquid-tight fitting, the scru-tite hub fits standard knockouts using standard tools. All Scru-tite fittings install without welding, in any position. Unique serrated design insures positive electrical ground and meets UL and JIC standards.



TIME SAVING INSTALLATION:

1. Insert hub through opening.
2. Hand thread nut on hub to snug fit.
3. Wrench tighten (from either side) until locked. Unique serrations on both hub and nut resist torque applied to opposite end making this a single wrench operation.

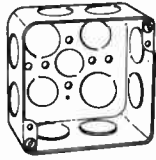
Conduit and/or Pipe Size, In.	Std. Pkg.	Zinc Hub	Zinc Cap-off	Aluminum Hub
1/2	25	ST-1	STC-1	STA-1
3/4	25	ST-2	STC-2	STA-2
1	25	ST-3	STC-3	STA-3
1 1/4	10	ST-4	STC-4	STA-4
1 1/2	10	ST-5	STC-5	STA-5
2	10	ST-6	STC-6	STA-6
2 1/2	5	ST-7	STC-7	STA-7
3	2	ST-8	STC-8	STA-8
3 1/2	2	ST-9	STC-9	STA-9
4	2	ST-10	STC-10	STA-10
5	1	ST-11	.....	STA-11
6	1	ST-12	.....	STA-12

Zinc Hub		Zinc Cap-off		Aluminum Hub	
Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
ST-1	\$0.75	STC-1	\$0.49	STA-1	\$0.90
ST-2	.85	STC-2	.56	STA-2	1.02
ST-3	1.00	STC-3	.65	STA-3	1.20
ST-4	1.15	STC-4	.75	STA-4	1.38
ST-5	1.30	STC-5	.85	STA-5	1.56
ST-6	1.80	STC-6	1.17	STA-6	2.16
ST-7	3.30	STC-7	2.15	STA-7	3.96
ST-8	4.80	STC-8	3.12	STA-8	5.76
ST-9	6.30	STC-9	4.10	STA-9	7.56
ST-10	7.80	STC-10	5.07	STA-10	9.36
ST-11	13.38	.....	.....	STA-11	16.05
ST-12	24.38	.....	.....	STA-12	29.25

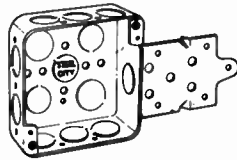
Information on other fittings available on request.

OUTLET BOXES

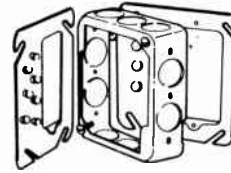
FOUR INCH SQUARE OUTLET BOXES



52171-3/4



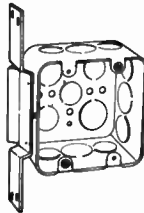
52151-B1/2



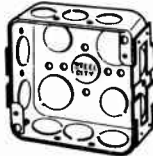
X 1 1/4-1/2 with
two 52 C 10 Covers



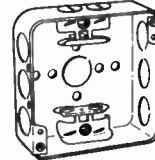
2G4D



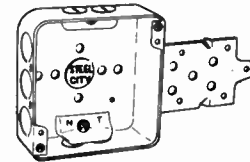
2G4DV-1/2 & 3/4



52141-E-1/2



52151-X



52151-BN

For Rigid Metallic Conduit, EMT, Flexible Metallic Conduit
(No Clamps)

Steel City	Cat. No.	Appleton	Depth Inches	Wiring Capacity	Std. Pkg.	K.O.'s		Wt. Lbs. Per 100	Std. Pkg. Price Per 100		
						Side	Bottom		Zone 1	Zone 2	Zone 3
	52141-1/2	4SL 1/2	1 1/4	17.6	50	10-1/2"	5-1/2"	62	\$29.70	\$31.20	\$32.75
	52151-1/2	4S 1/2	1 1/2	21.1	50	12-1/2"	5-1/2"	72	26.30	27.65	29.00
	52151-3/4	4S 3/4	1 1/2	21.1	50	8-3/4"	3-1/2", 2-3/4"	72	27.45	28.90	30.25
	52151-1/2 & 3/4	4S Spl.	1 1/2	21.1	50	8-1/2", 4-3/4"	3-1/2", 2-3/4"	72	27.45	28.90	30.25
	52171-1/2	4SD 1/2	2 1/8	29.9	50	12-1/2"	3-1/2", 2-3/4"	90	43.20	45.30	47.45
	52171-3/4	4SD 3/4	2 1/8	29.9	50	8-3/4"	3-1/2", 2-3/4"	90	44.35	46.60	48.85
	52171-1/2 & 3/4	4SD Spl.	2 1/8	29.9	50	8-1/2", 4-3/4"	3-1/2", 2-3/4"	90	44.35	46.60	48.85
	52171-1	4SD1	2 1/8	29.9	50	8-1"	3-1/2", 2-3/4"	90	44.35	46.60	48.85
	52151-B-1/2 *	4SB 1/2	1 1/2	21.1	50	9-1/2"	5-1/2"	85	34.70	36.40	38.15
	52151-B-1/2 & 3/4 *	4SB Spl.	1 1/2	21.1	50	6-1/2", 3-3/4"	3-1/2", 2-3/4"	85	37.35	39.15	41.05
	52151-V-1/2 **	.....	1 1/2	21.1	50	9-1/2"	5-1/2"	78	33.55	35.20	36.90
	52151-V-1/2 & 3/4 **	4SVB Spl.	1 1/2	21.1	50	6-1/2", 3-3/4"	3-1/2", 2-3/4"	78	34.70	36.40	38.15
	2G-4D 1/2 & 3/4 †	.....	2 1/8	29.9	50	8-1/2", 4-3/4"	3-1/2", 2-3/4"	92	69.60	73.05	76.55
	2G-4DV 1/2 & 3/4 †	.....	2 1/8	29.9	25	6-1/2", 3-3/4"	3-1/2", 2-3/4"	108	75.70	79.45	83.25

For Armored Cable — Flexible Metallic Conduit

Two C-3 Clamps — Two 3/8" pri-outs in each clamp side

52151-X	.....	1 1/2	21.1	50	6-1/2"	1-1/2"	79	\$39.05	\$41.05	\$43.05
52151-BX*	4SBB	1 1/2	21.1	50	3-1/2"	1-1/2"	95	44.15	46.40	48.65
52151-VX**	4SXVB	1 1/2	21.1	50	3-1/2"	1-1/2"	90	42.85	45.00	47.20

For Non-Metallic Sheathed Cable, Non-Metallic Flexible Tubing (Loom)

Two C-5 Clamps — Two 3/8" pri-outs in each clamp side.

52151-N	4SR	1 1/2	21.1	50	6-1/2"	1-1/2"	79	\$37.90	\$39.75	\$41.70
52151-BN*	4SRB	1 1/2	21.1	50	3-1/2"	1-1/2"	95	45.40	47.65	49.95
52151-VN**	4SRVB	1 1/2	21.1	50	3-1/2"	1-1/2"	90	41.60	43.65	45.75

†Two Device Boxes — ears spaced for 2 std. devices or 1 heavy duty receptacle.

*B-Bracket Flush Mounted

**V-Bracket Flush Mounted

FOUR INCH SQUARE THRU-BOXES

Allows switches or receptacles to be installed in same box feeding both sides of shallow partition. Furnished with side holes for footed box support mounting.

X-1 1/4-1/2	4SLES	1 1/4	17.6	50	10-1/2"	.....	44	\$40.10	\$42.15	\$44.10
X-1 1/2-1/2	.....	1 1/2	21.1	50	12-1/2"	.....	52	40.45	42.40	44.45
X-1 1/2-3/4	.....	1 1/2	21.1	50	8-3/4"	.....	52	41.55	43.55	45.70
X-1 1/2-1/2 & 3/4	4SES	1 1/2	21.1	50	8-1/2", 4-3/4"	.....	52	41.55	43.55	45.70

FOUR INCH SQUARE BOXES FOR 2" SOLID WALL CONSTRUCTION

Fold out tabs lock box into solid position.

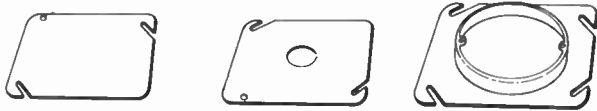
52141-E-1/2 *	.....	1 1/4	17.6	50	10-1/2"	5-1/2"	65	\$58.50	\$61.40	\$64.35
52141-ED-1/2 *	.....	1 1/4	17.6	50	10-1/2"	5-1/2"	65	58.50	61.40	64.35
X-1 1/4-E-1/2 *	.....	1 1/4	17.6	50	10-1/2"	.....	47	66.25	69.55	72.85
X-1 1/4-ED-1/2 **	.....	1 1/4	17.6	50	10-1/2"	.....	47	66.25	69.55	72.85

*Tabs for 3/8" or 1/2" plasterboard

**Tabs for 3/4" or 1" plasterboard

OUTLET BOXES

COVERS FOR FOUR INCH SQUARE BOXES

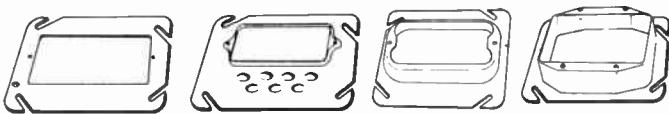


Cat. No.		Description	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3
52 C 1	8465	Flat Blank	\$ 9.75	\$10.20	\$10.70
52 C 6	8474	Flat 1/2" KO	9.75	10.20	10.70
52 C 3-1/2	8461A	*Raised 1/2"	13.65	14.35	15.05
52 C 3	8461	*Raised 5/8"	13.65	14.35	15.05
52 C 3-3/4	8461B	*Raised 3/4"	19.30	20.25	21.30
52 C 3-1	8461C	*Raised 1"	51.70	54.30	56.90
52 C 3-1 1/4	8461D	*Raised 1 1/4"	51.70	54.30	56.90

*Center blanked with tapped ears on 2 3/8" centers.

DEVICE COVERS FOR FOUR INCH SQUARE BOXES

Single Device



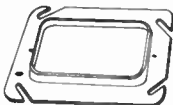
Cat. No.		Description	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3
52 C 0	8468F	Flat	\$14.25	\$14.95	\$15.70
52 C 62	8468B	*Raised 1/4"	11.40	11.95	12.50
52 C 10	8475	**Raised 1/4"	22.20	23.35	24.45
52 C 13	8468A	Raised 1/2"	12.75	13.40	14.05
52 C 14	8468	Raised 3/4"	14.90	15.70	16.35
52 C 15	8466A	Raised 1"	17.90	18.80	19.70
52 C 16	8466	Raised 1 1/4"	18.80	19.75	20.75

*Keyed for Plaster **Offset Keyed for Plaster

Two Devices

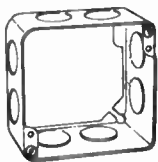
52 C 00	8470F	Flat	\$18.55	\$19.45	\$20.35
52 C 20	8470B	Raised 1/4"	17.90	18.80	19.70
52 C 17	8470A	Raised 1/2"	18.80	19.75	20.75
52 C 18	8470	Raised 3/4"	19.30	20.25	21.30
52 C 19	8469A	Raised 1"	27.40	28.75	30.15
52 C 21	8469	Raised 1 1/4"	28.90	30.35	31.80

DRY WALL COVERS FOR FOUR INCH SQUARE BOXES



Cat. No.		Description	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3
52 C 36	8468WB	Single Device Raised 1/4"	\$24.55	\$25.85	\$27.10
52 C 37	.....	Two Devices Raised 1/4"	27.15	28.50	29.85

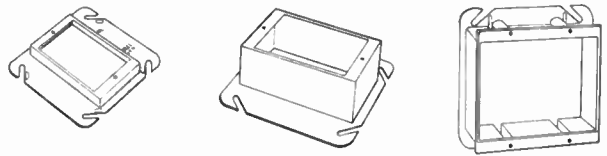
FOUR INCH SQUARE BOX EXTENSIONS



Slot and keyed notch design permits mounting on box without removing screws.

Cat. No.		Side KO's	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3
1 1/2" Deep					
53151-1/2	4SE 1/2	12-1/2"	\$33.20	\$34.85	\$36.50
53151-3/4	4SE 3/4	8-3/4"	34.45	36.15	37.90
53151-1/2 & 3/4	.....	8-1/2"	34.45	36.15	37.90
.....	.....	4-3/4"			
2 1/8" Deep					
53171-1/2 & 3/4	.....	8-1/2"	\$57.00	\$59.75	\$62.70
.....	.....	4-3/4"			
53171-1	8-1"				59.45	62.40	65.40

SQUARE CORNERED TILE WALL COVERS FOR FOUR INCH SQUARE BOXES



Cat. No.		Description	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3

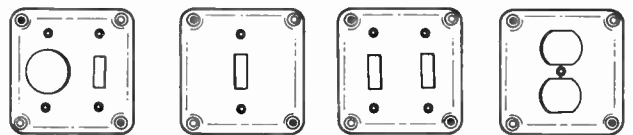
Single Device

52 C 49-1/2	846-50	1/2"	\$34.55	\$36.25	\$38.00
52 C 49-3/4	846-75	3/4"	35.60	37.35	39.15
52 C 49-1	846-100	1"	36.75	38.55	40.30
52 C 49-1 1/4	846-125	1 1/4"	37.70	39.65	41.55
52 C 50-1 1/2	846-150	1 1/2"	38.85	40.75	42.70
52 C 51-2	846-200	2"	39.95	41.90	43.85

Two Devices

52 C 52-1/2	847-50	1/2"	\$38.85	\$40.75	\$42.70
52 C 52-3/4	847-75	3/4"	39.95	41.90	43.85
52 C 52-1	847-100	1"	40.95	43.05	45.10
52 C 52-1 1/4	847-125	1 1/4"	42.05	44.15	46.20
52 C 53-1 1/2	847-150	1 1/2"	43.20	45.30	47.45
52 C 54-2	847-200	2"	44.15	46.45	48.65

SURFACE COVERS FOR FOUR INCH SQUARE BOXES GALVANIZED — 1/2" DEEP

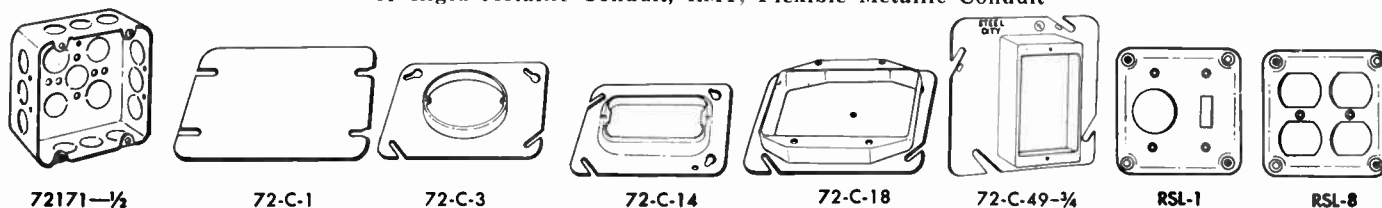


Cat. No.		Description	Per 100		
Steel City	Appleton		Zone 1	Zone 2	Zone 3
RS-1	.....	For 1 Tog. Sw. & 1 Recept.	\$23.70	\$24.90	\$26.15
RS-2	8375	For 1 Tog. Sw. & 1 Dupl. Fl. Recept.	23.70	24.90	26.15
RS-3	.....	For 1 Sgl. & 1 Dupl. Fl. Recept.	27.55	28.85	30.25
RS-4	.....	For one 4-wire Twist Lock Recept.	23.70	24.90	26.15
RS-5	8367	For 2 Sq. Handle Tog. Sw.	23.70	24.90	26.15
RS-6	.....	For "Despard" Type wiring dev. with 3 KO's & one 3-hole straps	46.15	48.50	50.80
RS-7	.....	For "Despard" Type wiring dev. with 6 KO's & two 3-hole straps	57.15	60.05	62.85
RS-8	8371	For 3 Dupl. Recept.	23.70	24.90	26.15
RS-9	8361	For 1 Tog. Sw.	21.60	22.70	23.75
RS-10	8369	For 2 Sgl. Fl. Recept.	25.40	26.60	27.85
RS-11	8363	For 1 Sgl. Fl. Recept.	22.60	23.70	24.90
RS-12	8365	For 1 Dupl. Recept.	22.60	23.70	24.90
RS-13	.....	For one 30 or 50A. Dryer or Range....	24.90	26.10	27.30
RS-14	.....	For 30 to 60 amp. Recept.	25.40	26.60	27.85
RS-15	.....	For 30 amp. 250 V. Twist Lock Recept.	24.20	25.40	26.65

OUTLET BOXES

4-11/16" SQUARE BOXES

For Rigid Metallic Conduit, EMT, Flexible Metallic Conduit



Steel City	Cat. No.		Depth Inches	Wiring Capacity	Std. Pkg.	KO's		Wt. Lbs. Per 100	Per 100		
	Appleton					Side	Bottom		Zone 1	Zone 2	Zone 3
	72151-1/2	4SJ 1/2	1 1/2	30	25	12-1/2"	3-1/2", 2-3/4"	88	\$48.80	\$51.20	\$53.70
	72151-3/4	4SJ 3/4	1 1/2	30	25	10-3/4"	3-1/2", 2-3/4"	88	48.80	51.20	53.70
	72151-1/2 & 3/4	4SJ Spl.	1 1/2	30	25	8-1/2", 4-3/4"	3-1/2", 2-3/4"	88	48.80	51.20	53.70
	72171-1/2	4SJD 1/2	2 1/8	42	25	12-1/2"	3-1/2", 2-3/4"	118	54.30	57.00	59.65
	72171-3/4	4SJD 3/4	2 1/8	42	25	12-3/4"	3-1/2", 2-3/4"	118	54.30	57.00	59.65
	72171-1/2 & 3/4	4SJD Spl.	2 1/8	42	25	8-1/2", 4-3/4"	3-1/2", 2-3/4"	118	54.30	57.00	59.65
	72171-1	4SJD1	2 1/8	42	25	8-1"	3-1/2", 2-3/4"	118	54.30	57.00	59.65
	72171-3/4 & 1	4SJD 3/4-1	2 1/8	42	25	4-3/4", 4-1"	3-1/2", 2-3/4"	118	54.30	57.00	59.65
	72171-1 1/4	4SJD1-1/4	2 1/8	42	25	6-1 1/4"	3-1/2", 2-3/4"	118	54.30	57.00	59.65

COVERS FOR 4-11/16" SQUARE BOXES

Steel City	Cat. No.	Appleton	Wiring Capacity	Std. Pkg.	Description	Wt. Lbs. Per 100	Zone 1	Zone 2	Zone 3
	72 C 1	8487		25	Flat Blank	45	\$17.30	\$18.10	\$19.00
	72 C 6			25	Flat with 1/2" KO	44	21.15	22.10	23.25
	72 C 3	8488	3.7	25	*Raised 5/8"	40	30.25	31.75	33.25
	72 C 3-1/2	8488A	3.0	25	*Raised 1/2"	36	30.25	31.75	33.25
	72 C 3-3/4	8488B	4.4	25	*Raised 3/4"	44	47.90	50.35	52.70
	72 C 3-1		5.9	25	*Raised 1"	48	68.10	71.45	74.90

*Center blanked with tapped ears on 2 3/8" centers.

DEVICE COVERS FOR 4-11/16" SQUARE BOXES

			Single Device		Two Devices				
72 C	Cat. No.	Appleton	Wiring Capacity	Std. Pkg.	Description	Wt. Lbs. Per 100	Zone 1	Zone 2	Zone 3
72 C 62			1.2	25	Raised 1/4"	37	\$29.95	\$31.45	\$33.00
72 C 13	8485A		3.0	25	Raised 1/2"	40	30.65	32.10	33.70
72 C 14	8485		3.6	25	Raised 3/4"	48	30.65	32.10	33.70
72 C 15			4.8	25	Raised 1"	52	30.65	32.10	33.70
72 C 16			6.0	25	Raised 1 1/4"	53	33.35	35.00	36.70
72 C 17	8486A		4.8	25	Raised 1/2"	32	\$33.35	\$35.00	\$36.70
72 C 18	8486		7.2	25	Raised 3/4"	40	33.35	35.00	36.70
72 C 19			9.6	25	Raised 1"	44	44.50	46.80	49.00
72 C 21			12.0	25	Raised 1 1/4"	46	46.60	48.85	51.20

SQUARE CORNERED TILE WALL COVERS FOR 4-11/16" SQUARE BOXES

			Single Device		Two Devices				
72 C	Cat. No.	Appleton	Wiring Capacity	Std. Pkg.	Description	Wt. Lbs. Per 100	Zone 1	Zone 2	Zone 3
72 C 49-3/4			5.6	25	Raised 3/4"	26	\$66.85	\$70.20	\$73.55
72 C 49-1			7.4	25	Raised 1"	29	66.85	70.20	73.55
72 C 49-1 1/4			9.3	25	Raised 1 1/4"	34	70.10	73.55	77.10
72 C 50-1 1/2			11.1	20	Raised 1 1/2"	37	70.10	73.55	77.10
72 C 51-2			14.9	20	Raised 2"	45	70.10	73.55	77.10
72 C 52-3/4			7.9	25	Raised 3/4"	23	\$72.30	\$75.90	\$79.50
72 C 52-1			10.5	25	Raised 1"	28	72.30	75.90	79.50
72 C 52-1 1/4			13.2	25	Raised 1 1/4"	32	75.45	79.25	83.05
72 C 53-1 1/2			15.8	20	Raised 1 1/2"	35	75.45	79.25	83.05
72 C 54-2			21.0	20	Raised 2"	45	75.45	79.25	83.05

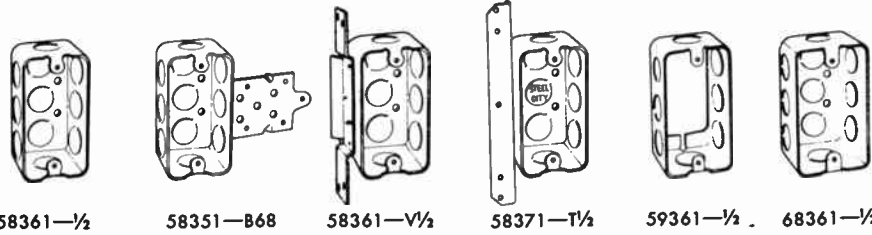
SURFACE COVERS FOR 4-11/16" SQUARE BOXES

			1/2" Deep						
RSL	Cat. No.	Appleton	Wiring Capacity	Std. Pkg.	Description	Wt. Lbs. Per 100	Zone 1	Zone 2	Zone 3
RSL-1			7.5	10	For one toggle switch and one single flush receptacle	60	\$55.45	\$58.20	\$61.05
RSL-2			7.5	10	For one toggle switch and one duplex flush receptacle	35	56.50	59.35	62.25
RSL-4			7.5	10	For 1 four-wire twist lock receptacle	60	56.50	59.35	62.25
RSL-5			7.5	10	For two toggle switches	60	56.50	59.35	62.25
RSL-8			7.5	10	For two duplex flush receptacles	50	55.45	58.20	61.05
RSL-12			7.5	10	For one toggle switch	55	52.95	55.60	58.20

OUTLET BOXES

STANDARD UTILITY BOXES AND COVERS

4" Long x 2 1/8" Wide



For Rigid Metallic Conduit, EMT, Flexible Metallic Conduit

Steel City	Cat. No.	Appleton	Depth Inches	Wiring Capacity	Std. Pkg.	Side	KO's End	Bottom	Wt. Lbs. Per 100	Zone 1	Per 100 Zone 2	Zone 3
	58351-1/2	4SSLS 1/2	1 1/2	11.0	50	6-1/2"	2-1/2"	3-1/2"	49	\$21.00	\$21.95	\$23.00
	58361-1/2	4CS 1/2	1 7/8	14.0	50	6-1/2"	2-1/2"	3-1/2"	55	22.05	23.15	24.25
	58361-3/4	4CS 3/4	1 7/8	14.0	50	4-3/4"	2-3/4"	2-3/4"	55	23.85	25.05	26.25
	58371-1/2	4SSL 1/2	2 1/8	16.0	50	6-1/2"	2-1/2"	3-1/2"	60	24.35	25.50	26.80
	58371-3/4	4SSL 3/4	2 1/8	16.0	50	4-3/4"	2-3/4"	2-3/4"	60	26.10	27.40	28.75
	58351-B-68*	.....	1 1/2	11.0	50	3-1/2"	2-1/2"	3-1/2"	64	30.25	31.75	33.25
	58361-V-1/2**	4CSVB 1/2	1 7/8	14.0	50	3-1/2"	2-1/2"	3-1/2"	65	28.35	29.80	31.20
	58371-V-1/2**	4SSLVB 1/2	2 1/8	16.0	50	3-1/2"	2-1/2"	3-1/2"	70	30.65	32.10	33.70
	58371-T-1/2***	4SSLX 1/2	2 1/8	16.0	50	3-1/2"	2-1/2"	3-1/2"	75	31.75	33.35	35.00

*Bracket Recessed 3/4" **Bracket Recessed 1/2" ***Bracket Recessed 5/8"

STANDARD UTILITY BOX EXTENSIONS

Slot and Key Design Permits Box Mounting Without Removing Screws

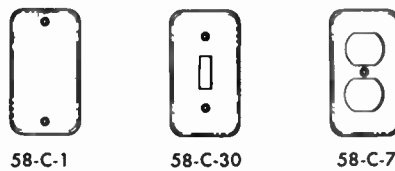
59361-1/2	4SSLE 1/2	1 7/8	14.0	50	6-1/2"	2-1/2"	.....	44	\$25.00	\$26.25	\$27.45
59361-3/4	.....	1 7/8	14.0	50	4-3/4"	2-3/4"	.....	44	27.80	29.15	30.55

EXTRA SPACE UTILITY BOXES

4 1/8" Long x 2 1/2" Wide

68361-1/2	180 1/2	1 1/8	17.5	50	6-1/2"	2-1/2"	3-1/2"	60	\$29.15	\$30.65	\$32.20
68361-3/4	.....	1 1/8	17.5	50	4-3/4"	2-3/4"	2-3/4"	60	32.30	33.95	35.55
68371-1/2	181	2 1/16	20.0	50	6-1/2"	2-1/2"	3-1/2"	66	33.05	34.65	36.30
68371-3/4	.....	2 3/16	20.0	50	4-3/4"	2-3/4"	2-3/4"	66	34.80	36.50	38.30

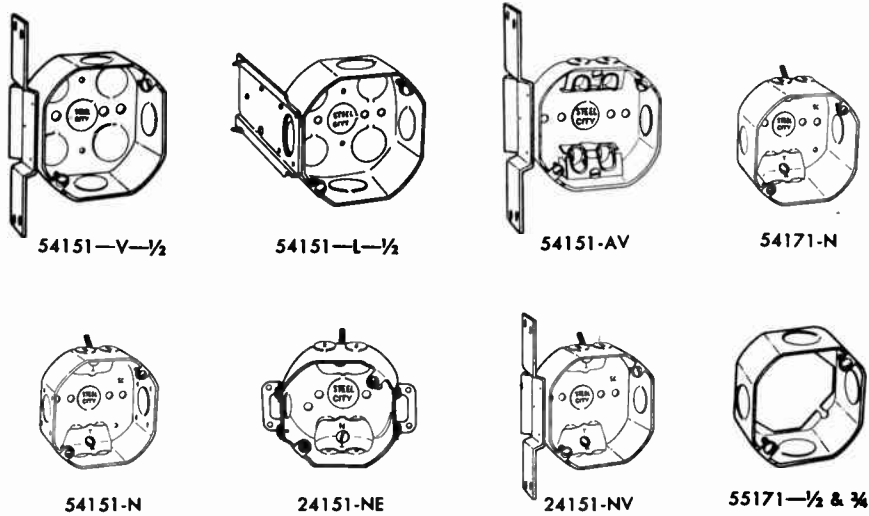
UTILITY BOX COVERS



Standard (58 series) Box Covers 1/4" Deep — Extra Space (68 series) Box Covers 3/8" Deep

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100	Zone 1	Per 100 Zone 2	Zone 3
58 C 1	Blank	100	15	\$ 7.55	\$ 7.95	\$ 8.30
68 C 1	Blank	100	15	10.40	10.90	11.40
58 C 4	For 4-wire twist lock single flush receptacles.....	20	12	10.65	11.15	11.70
68 C 4	For 4-wire twist lock single flush receptacles.....	20	14	12.75	13.35	14.05
58 C 5	For single receptacle.....	20	13	9.45	9.90	10.40
68 C 5	For single receptacle.....	20	14	11.80	12.40	13.00
58 C 6	With 1/2" KO.....	100	15	11.35	11.85	12.50
68 C 6	With 1/2" KO.....	20	16	14.95	15.70	16.45
58 C 7	For duplex flush receptacles.....	100	11	7.25	7.65	7.95
68 C 7	For duplex flush receptacles.....	100	12	9.55	10.00	10.45
58 C 11	1/4" deep with 7/8" bushed hole.....	20	15	14.25	14.95	15.70
58 C 30	For 1 toggle switch.....	100	15	7.55	7.95	8.30
68 C 30	For 1 toggle switch.....	100	15	10.60	11.10	11.65
58 C 40	For "Despard" type wiring devices with three KO's and three hole strap.....	20	21	23.15	24.30	25.45
68 C 40	For "Despard" type wiring devices with three KO's and three hole strap.....	20	21	27.40	28.80	30.15

OUTLET BOXES
FOUR INCH OCTAGON BOXES



For Rigid Metallic Conduit, EMT, Flexible Metallic Conduit

Steel City	Cat. No.		Depth Inches	Wiring Capacity	Std. Pkg.	Side		KO's		Bottom	Wt. Lbs. Per 100	Per 100		
	Steel City	Appleton				Zone 1	Zone 2	Zone 3						
	54151-1/2	40 1/2	1 1/2	16.5	50	4-1/2"		5-1/2"		56	\$21.00	\$22.05	\$23.10	
	54151-3/4	40 3/4	1 1/2	16.5	50	4-3/4"		3-1/2", 2-3/4"		56	21.45	22.50	23.55	
	54151-1/2 & 3/4	40 Spl.	1 1/2	16.5	50	2-1/2", 2-3/4"		3-1/2", 2-3/4"		56	21.45	22.50	23.55	
	54151-V-1/2*	40VB 1/2	1 1/2	16.5	50	3-1/2"		5-1/2"		62	27.40	28.75	30.15	
	54151-L-1/2	40FB 1/2	1 1/2	16.5	50	4-1/2"		5-1/2"		70	28.50	29.95	31.40	
	54171-1/2	40D 1/2	2 1/8	23.0	50	4-1/2"		5-1/2"		70	27.65	29.00	30.40	
	54171-3/4	40D 3/4	2 1/8	23.0	50	4-3/4"		3-1/2", 2-3/4"		70	29.55	31.00	32.40	
	54171-1/2 & 3/4	40D Spl.	2 1/8	23.0	50	2-1/2", 2-3/4"		3-1/2", 2-3/4"		70	29.55	31.00	32.40	
	54171-1	40D1	2 1/8	23.0	50	4-1"		3-1/2", 2-3/4"		70	31.40	32.95	34.55	

For Armored Cable (BX) Flexible Metallic Tubing

Two CA-1 Clamps — Two 3/4" Pri-Outs in Each Clamp Side

54151-A	551L	1 1/2	16.5	50	2-1/2"	1-1/2"	63	\$30.30	\$31.80	\$33.75
54151-AV*	.....	1 1/2	16.5	50	1-1/2"	1-1/2"	73	37.90	39.75	41.70
54151-AL	551LJB	1 1/2	16.5	50	2-1/2"	1-1/2"	76	39.05	41.05	43.05

*Bracket Recessed 1/2"

For Non-Metallic Sheathed Cable and Non-Metallic Flexible Tubing (Loom)

Two CN-1 Clamps — Four 3/4" Pri-Outs Under Each Clamp

54151-N	561L	1 1/2	16.5	50	2-1/2"	1-1/2"	61	\$29.85	\$31.35	\$32.90
54151-NE*	561LXE	1 1/2	16.5	50	2-1/2"	1-1/2"	65	40.45	42.40	44.45
54151-NL	561LJB	1 1/2	16.5	50	2-1/2"	1-1/2"	75	36.90	38.70	40.50
54151-NV**	561LVB	1 1/2	16.5	50	1-1/2"	1-1/2"	71	36.60	38.35	40.25
54171-N	561LD	2 1/8	23.0	50	2-1/2"	1-1/2"	75	39.05	41.05	43.05
54171-NL	561LDJB	2 1/8	23.0	50	2-1/2"	1-1/2"	80	47.90	50.35	52.70

*With Ears

**Bracket Recessed 1/2"

THREE AND ONE-HALF INCH OCTAGON BOXES

For Non-Metallic Sheathed Cable, Non-Metallic Flexible Tubing (Loom)

Two CN-1 Clamps — Four 3/4" Pri-Outs Under Each Clamp

24151-N	560L	1 1/2	12.2	50	2-1/2"	1-1/2"	51	\$29.85	\$31.35	\$32.90
24151-NE*	560LXE	1 1/2	12.2	50	2-1/2"	1-1/2"	56	40.45	42.40	44.45
24151-NV**	.....	1 1/2	12.2	50	1-1/2"	1-1/2"	65	36.60	38.35	40.25

*With Ears

**Bracket Recessed 1/2"

FOUR INCH OCTAGON BOX EXTENSIONS

Slot and Key Design Permits Box Mounting Without Removing Screws

55151-1/2	40E 1/2	1 1/2	16.5	50	4-1/2"		41	\$25.30	\$26.50	\$27.80
55151-1/2 & 3/4	40E Spl.	1 1/2	16.5	50	2-1/2", 2-3/4"		41	26.45	27.80	29.15
55171-1/2 & 3/4	.....	2 1/8	23.0	50	2-1/2", 2-3/4"		60	39.85	41.85	43.85
55171-1	.....	2 1/8	23.0	50	4-1"		60	41.75	43.80	45.90

OUTLET BOXES

COVERS FOR OCTAGON AND ROUND BOXES

Steel City	Cat. No.		Description	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
24 C 1*	8301A		Flat Blank	\$7.55	\$7.95	\$8.30
54 C 1	8403		Flat Blank	7.50	7.85	8.15
24 C 6	8320		Flat 1/2" KO.....	8.15	8.65	9.10
54 C 6	8413		Flat 1/2" KO.....	7.55	7.95	8.30
54 C 7	8414		Raised 5/8" with 1/2" KO	16.05	16.85	17.65
54 C 3-1/2	8409		†Raised 1/2"	13.00	13.65	14.35
54 C 3	8409A		†Raised 5/8"	13.00	13.65	14.35
54 C 3-1			†Raised 1"	36.95	38.75	40.65
54 C 3-1 1/4	8409D		†Raised 1 1/4"	41.65	43.70	45.75
54 C 12	8402A		Raised 5/8", 1 1/8" hole	17.45	18.35	19.20
54 C 14	8434		Raised 5/8" for single device	16.20	17.00	17.80
5401-LR	8419LR		Flat, Center Blanked for single recep.	16.05	16.85	17.65
5402-LR	8420LR		Flat, Center Blanked for duplex recep.....	16.05	16.85	17.65

*For 3 1/2" octagon — all others for 4" octagon.
†Center blanked with tapped ears on 2 3/8" center.

4" OCTAGON CONCRETE BOX RINGS & PLATES

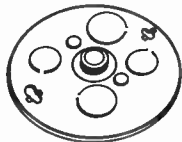


54561-1/2 & 3/4

1/2" K.O.'s or 3/4" K.O.'s or 3/4" and 1" K.O.'s available in 3", 3 1/2" and 4" deep boxes. 3/4" and 1" K.O.'s available in 5" deep boxes.

Steel City	Cat. No.		Depth Inches	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
54531-1/2 & 3/4	OCR2		2	\$40.45	\$42.40	\$44.45
54541-1/2 & 3/4	OCR2 1/2		2 1/2	41.65	43.70	45.75
54551-1/2 & 3/4	OCR3		3	44.15	46.40	48.65
54561-1/2 & 3/4	OCR3 1/2		3 1/2	49.15	51.60	54.10
54571-1/2 & 3/4	OCR4		4	60.60	63.60	66.60
54581-1/2 & 3/4			5	76.90	80.80	84.65
54591-1/2 & 3/4			6	89.60	94.00	98.50

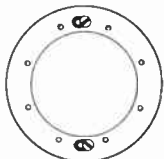
PLATES FOR 4" OCTAGON CONCRETE BOXES



CBP-3/8

Steel City	Cat. No.		KO's	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
CBP	OCP		No Stud			
			3-1/2", 2-3/4"	\$14.80	\$15.55	\$16.30
CBP-3/8	OCP-3/8		3/8" Stud			
			2-1/2", 2-3/4"	20.20	21.30	22.25

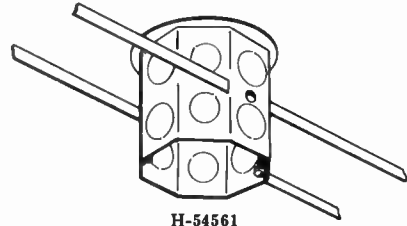
CONCRETE BOX ADAPTER



For mounting 4" Octagon Extension ring on concrete box or hung ceiling box.

Steel City	Cat. No.		Per 100		
	Appleton		Zone 1	Zone 2	Zone 3
CBA			\$22.70	\$23.85	\$25.00

FOUR INCH OCTAGON HUNG CEILING BOX



H-54561

No. H-54561-1/2 & 3/4 has two rows of 1/2" and 3/4" KO's. No. H-54561-3/4 has two rows of 3/4" KO's.

Steel City	Cat. No.		Depth Inches	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
H-54561-1/2 & 3/4			3 1/2	\$79.50	\$83.40	\$87.40
H-54561-3/4			3 1/2	79.50	83.40	87.40

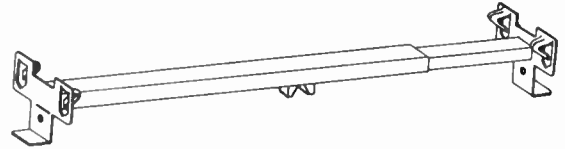
BARS FOR HUNG CEILING BOXES

Two bars for each box — order bars separately

Steel City	Cat. No.		Length Inches	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
HBB-18			18	\$13.00	\$13.60	\$14.25
HBB-24			24	16.20	17.00	17.80
HBB-30			30	19.45	20.35	21.35

ADJUSTABLE BAR HANGERS

Packaged complete with stud or fastener



For 1/2", 3/4", 7/8" Lath and Plaster

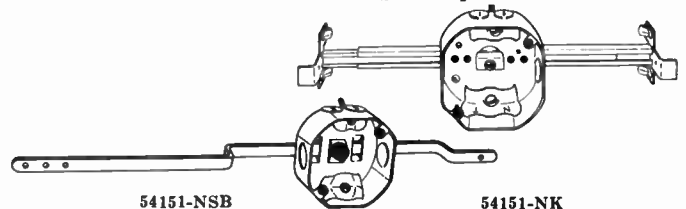
Steel City	Cat. No.		Bar Length Inches	with	Per 100		
	Appleton				Zone 1	Zone 2	Zone 3
6010-P	SX115		11 1/2-18 1/2	stud	\$29.35	\$30.80	\$32.25
6010-AP	SX160		18 1/2-26 1/2	stud	33.80	35.50	37.20
6011-P	SX18		11 1/2-18 1/2	fastener	27.30	28.70	30.10
6011-AP	SX26		18 1/2-26 1/2	fastener	31.80	33.45	35.05

For 3/8", 1/2", 7/8" Dry Wall Board

6010-DW			11 1/2-18 1/2	stud	\$29.35	\$30.80	\$32.25
6010-ADW			18 1/2-26 1/2	stud	33.45	35.05	36.75
6011-DW			11 1/2-18 1/2	fastener	27.30	28.70	30.10
6011-ADW			18 1/2-26 1/2	fastener	33.45	35.05	36.75

FOUR INCH OCTAGON BOX BAR SETS

All Boxes 1 1/2" Deep



54151-NSB

54151-NK

For Non-Metallic Sheathed Cable, Non-Metallic Flexible Tubing

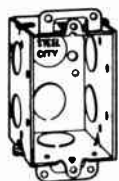
Steel City	Cat. No.		Mounted On	Per 100		
	Appleton			Zone 1	Zone 2	Zone 3
With Stud						
54151-NJ	SX-115-561L		6010-P	\$62.70	\$65.85	\$69.00
54151-NF			6010-DW	62.70	65.85	69.00
54151-NO	BHSX561L		6010-AP	67.05	70.45	73.75
54151-NSB	BHS561L		6101	59.70	62.65	65.65
With Fastener						
54151-NK			6011-P	60.05	63.05	66.05
54151-NG			6011-DW	60.05	63.05	66.05
54151-NP			6011-AP	67.05	70.45	73.75

SWITCH BOXES

GANGABLE — SQUARE CORNERS

For: Rigid Metallic Conduit
Electrical Metallic Tubing
Flexible Metallic Conduit

2" Wide — 3" Long — No Clamps



CDOW



CLLE



CDV



CW

Steel City Cat. No.	2 Screw Ears	Description Leveling Bumps	Nail Holes	Each Side	KO's Each End	Bottom
2" Deep						
CL	Yes	Yes	Yes	2-1/2"	1-1/2"	1-1/2"
CLLE	No	Yes	Yes	2-1/2"	1-1/2"	1-1/2"
2 1/2" Deep						
CD	Yes	Yes	Yes	2-1/2"	1-1/2"	2-1/2"
CDOW	Yes	No	Yes	2-1/2"	1-1/2"	2-1/2"
Old work						
CDLE	No	Yes	Yes	2-1/2"	1-1/2"	2-1/2"
CDV	No	No	No	*2-1/2"	1-1/2"	2-1/2"
V-Bracket recessed		7/8"				
2 3/4" Deep						
CW-1/2	Yes	No	Yes	2-1/2"	1-1/2"	1-1/2"
CW-3/4	Yes	No	Yes	2-3/4"	1-3/4"	1-1/2"
CWV	No	No	No	*2-1/2"	1-1/2"	1-1/2"
V-Bracket recessed		7/8"				
3 1/2" Deep						
CY-1/2	Yes	No	Yes	2-1/2"	2-1/2"	1-1/2"
CY-3/4	Yes	No	Yes	2-3/4"	2-3/4"	1-1/2"

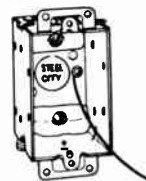
*One Side only

Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
CL	111	\$26.40	\$27.70	\$29.00
CLLE	111LE	21.50	22.55	23.60
CD	222	25.95	27.20	28.50
CDOW	222	25.95	27.15	28.50
CDLE	222LE	21.65	22.80	23.85
CDV	.....	27.95	29.40	30.80
CW-1/2	333	29.35	30.70	32.20
CW-3/4	335	30.15	31.65	33.20
CWV	.....	33.35	35.00	36.70
CY-1/2	.....	35.35	37.10	38.85
CY-3/4	336	36.50	38.30	40.10

GANGABLE — SQUARE CORNERS

For: Non-Metallic Sheathed Cable
Non-Metallic Flexible Tubing (Loom)

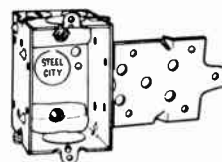
2" Wide — 3" Long — C-5 Clamps
Two 3/8" Pri-outs in each end



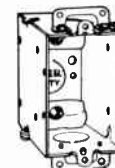
LXWOW-9



LXWLE



806-SW



CXW

Steel City Cat. No.	Ears	Description Leveling Bumps	Nail Holes	Each Side	KO's & Pri-outs Each End	Bottom
2" Deep						
LXMW	Yes*	Yes	Yes	.....	Pri-outs	1-1/2"
LXMWOW	Yes*	No	Yes	.....	Pri-outs	1-1/2"
Old work						
2 1/2" Deep						
LXW	Yes	Yes	Yes	.....	Pri-outs	1-1/2"
LXWOW	Yes	No	Yes	.....	Pri-outs	1-1/2"
Old work						
LXWOW-9†	Yes	No	Yes	.....	Pri-outs	1-1/2"
LXWLE	No	Yes	Yes	.....	1-1/2" & Pri-outs	1-1/2"
LXWV**	No	No	No	.....	1-1/2" & Pri-outs	1-1/2"
LXWV-9†**	No	No	No	.....	1-1/2" & Pri-outs	1-1/2"
LXWV-2G**	No	No	No	.....	2-1/2" & Pri-outs	2-1/2"
806-SW	No	Yes	No	.....	1-1/2" & Pri-outs	1-1/2"
806-SW-9†	No	Yes	No	.....	1-1/2" & Pri-outs	1-1/2"
2 3/4" Deep						
CWN	Yes	No	Yes	2-1/2"	Pri-outs	1-1/2"
CWNV**	No	No	No	2-1/2"	Pri-outs	1-1/2"
3 1/2" Deep						
CXW	Yes*	No	Yes	.....	1-1/2" & Pri-outs	1-1/2"
CXWV**	No	No	No	.....	1-1/2" & Pri-outs	1-1/2"

*2 Screw Ears, all others 1 Screw
†6" Ground wire factory installed

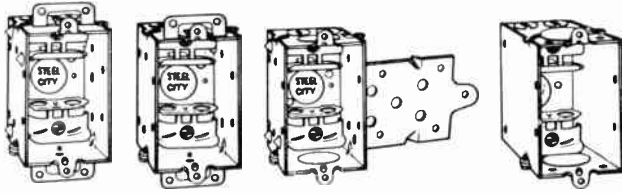
**V Bracket recessed 7/8"

Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
LXMW	383	\$32.60	\$34.25	\$35.90
LXMWOW	383	32.60	34.25	35.90
LXW	384	27.80	29.15	30.55
LXWOW	384	27.80	29.15	30.55
LXWOW-9	.....	33.20	34.85	36.50
LXW-LE	.....	24.25	25.45	26.65
LXWV	VRPL	29.80	31.30	32.80
LXWV-9	.....	35.20	36.95	38.70
LXWV-2G	.....	55.60	58.35	61.20
806-SW	384NL	30.80	32.25	33.85
806-SW-9	.....	36.20	38.00	39.85
CWN	389	37.70	39.55	41.45
CWNV	389VB	39.45	41.45	43.40
CXW	.....	45.30	47.55	49.90
CXWV	.....	47.10	49.40	51.75

SWITCH BOXES

GANGABLE — SQUARE CORNERS

For: Armored Cable, Flexible Metallic Conduit
 2" Wide — 3" Long — C-3 Clamps in Each End
 Two 3/8" Pri-outs Each End



Steel City Cat. No.	LX	LXOW	806-S	CX
		Description Leveling Bumps	Nail Holes	KO's & Pri-outs
		Ears	Each Side	Each End
		2" Deep		Bottom
LXMOW Old Work	Yes*	No	Yes	Pri-outs 1-1/2"
		2 1/2" Deep		
LX	Yes	Yes	Yes	Pri-outs 1-1/2"
LXWOW	Yes	No	Yes	Pri-outs 1-1/2"
LXLE	No	Yes	Yes	1-1/2" & 1-1/2" Pri-outs
LXV**	No	No	No	1-1/2" & 1-1/2" Pri-outs
806-S***	No	Yes	No	1-1/2" & 1-1/2" Pri-outs
		3 1/2" Deep		
CX	Yes*	No	Yes	1-1/2" & 1-1/2" Pri-outs

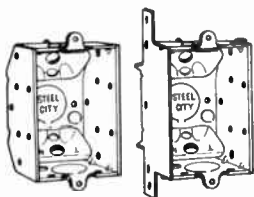
*2 screw ears **V-Bracket recessed 7/8" ***S-Bracket recessed 5/8"

Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
LXMOW	171F	\$33.20	\$34.85	\$36.50
LX	.....	30.20	31.70	33.25
LXWOW	384	27.80	29.15	30.55
LXLE	173LE	27.95	29.40	30.80
LXV	173FVB-PL	31.50	33.10	34.70
806-S	173FNL-PL	33.35	35.00	36.70
CX	175F	53.90	56.60	59.30

WELDED NON-GANGABLE — BEVELED CORNERS

For: Non-Metallic Sheathed Cable
 Non-Metallic Flexible Tubing (Loom)

2 1/4" Deep — 2" Wide — 3" Long



C-1 (two hole) clamps mounted thru the beveled box corners, tapped holes in box bottom and beveled corners so that clamp may be re-positioned when necessary.

Steel City Cat. No.	A-1-2	A-1-2V
	Description Leveling Bumps	Nail Holes
	Ears	Each Side
	KO's & 3/8" Pri-outs	
	Each End	Bottom
A-1-2	No	Yes
A-1-2 E	Yes	Yes
A-1-2 V	No	Yes

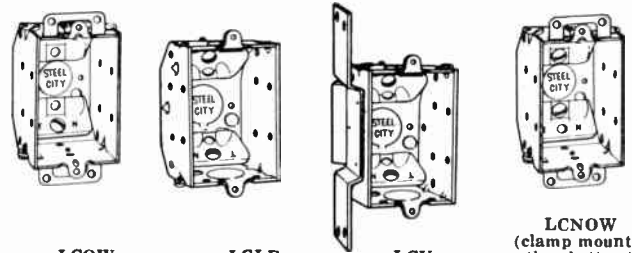
Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
A-1-2	388LES	\$20.65	\$21.60	\$22.70
A-1-2 E	.....	24.40	25.65	26.85
A-1-2 V	.....	28.20	29.60	31.00

GANGABLE — BEVELED CORNERS

For: Non-Metallic Sheathed Cable
 Non-Metallic Flexible Tubing (Loom)

2" Wide — 3" Long — 2 1/4" Deep

C-1 (two hole) clamps mounted thru the beveled box corners. Tapped holes in box bottom and beveled corners so that clamp may be re-positioned when necessary.



Steel City Cat. No.	LCOW	LCLE	LCV	LCNOW
	Description Leveling Bumps	Nail Holes	Each Side	KO's & 3/8" Pri-outs
	1 Screw Ear	Each End	Bottom	
LC	Yes	Yes	Yes	Pri-outs 1-1/2"
LCOW Old work	Yes	No	Yes	Pri-outs 1-1/2"
LCLE	No	Yes	Yes	1-1/2" & 1-1/2" Pri-outs
LCV*	No	No	No	1-1/2" & 1-1/2" Pri-outs
802-S**	No	Yes	No	1-1/2" & 1-1/2" Pri-outs
LCNOW	Yes	No	Yes	Pri-outs 1-1/2"

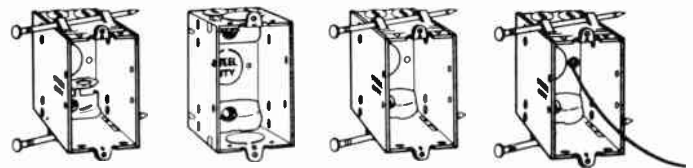
*V-Bracket recessed 3/4" **S-Bracket recessed 5/8"

Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
LC	388	\$25.95	\$27.15	\$28.50
LCOW	388	25.95	27.15	28.50
LCLE	388LE	22.95	24.10	25.20
LCV	388VB-PL	28.20	29.65	31.05
802-S	388NL-PL	28.90	30.30	31.80
LCNOW	44	25.95	27.15	28.50

WELDED NON-GANGABLE — SQUARE CORNERS

For: Non-Metallic Sheathed Cable
 Non-Metallic Flexible Tubing (Loom)

2" Wide — 3" Long — 2 1/2" Deep
 C-5 Clamp Each End



Steel City Cat. No.	A-25-4	A-25-4-V*	A-257	A-257-9**
	Description Leveling Bumps	Nail Holes	Each Side	KO's & 3/8" Pri-outs
	2 Screw Ears	Each End	Bottom	
A-25-4	No	No	Yes	No
A-25-4-V*	No	No	Yes	No
A-257	No	No	Yes	No
A-257-9**	No	No	Yes	No

*V-Bracket recessed 1 1/4" **6" grounding wire factory installed

For: Armored Cable — C-3 Clamps Each End

Steel City Cat. No.	Appleton	Zone 1	Per 100 Zone 2	Zone 3
A-25-4	.....	\$23.70	\$24.90	\$26.15
A-25-4 V	384DWC	28.90	30.30	31.80
A-257	385LESN	28.25	29.70	31.15
A-257-9	.....	35.05	36.75	38.55

SWITCH BOXES

GANGABLE



For: Rigid Metallic Conduit
Electrical Metallic Conduit
Flexible Metallic Conduit

2" Wide — 4" Long — 1 1/2" Deep
No Clamps
One 1/2" KO each end, one 1/2" KO
in bottom

CB

Steel City	Cat. No.	Appleton	Per 100		
			Zone 1	Zone 2	Zone 3
CB	778		\$29.85	\$31.35	\$32.90

NON-GANGABLE

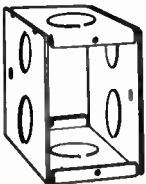


For: Non-Metallic Sheathed Cable
Non-Metallic Flexible Tubing (Loom)
One Piece Construction
2" Wide — 3" Long — 1 1/2" Deep
End-bottom Pri-outs — each end

SWB

Steel City	Cat. No.	Appleton	Per 100		
			Zone 1	Zone 2	Zone 3
SWB	95		\$25.95	\$27.25	\$28.50

CONCRETE BLOCK THRU-WALL BOXES



CBTW-4 for 4" block
CBTW-6 for 6" block
CBTW-8 for 8" block

KO's each side: 1 1/2" and 1 3/4"

CBTW-4

Steel City	Cat. No.	Deep	Size, Inches		Long	KO's Each End	Std. Pkg.
			Wide	High			
CBTW-4		3 1/2	2 1/4	3 1/4	1-3/4"	10	
CBTW-6		5 1/2	2 1/4	3 1/4	2-1/2", 1-3/4"	10	
CBTW-8		7 1/2	2 1/2	3 1/4	2-1/2", 1-3/4"	10	

Steel City	Cat. No.	Appleton	Per 100		
			Zone 1	Zone 2	Zone 3
CBTW-4			\$60.60	\$63.60	\$66.60
CBTW-6			70.65	74.15	77.70
CBTW-8			76.90	80.80	84.65

2 1/2" & 3 1/2" DEEP WALL BOXES

1/2" and 3/4" Concentric Knockouts

For Flush Mounting in Tile, Marble or Concrete Block Walls

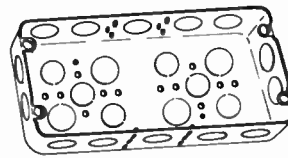
Cat. No.	No. of Gangs	Width Inches	KO's		
			Each Side	Each End	Bottom
2 1/2" Deep, 3 3/4" High					
GW-125-C	1	1 1/2	2	1	2
GW-225-C	2	3 3/4	2	2	4
GW-325-C	3	5 1/2	2	3	6
GW-425-C	4	7 1/2	2	4	8
GW-525-C	5	9 3/4	2	5	10
GW-625-C	6	11 1/2	2	6	12
3 1/2" Deep, 3 3/4" High					
GW-135-C	1	1 1/2	2	2	2
GW-235-C	2	3 3/4	2	4	4
GW-335-C	3	5 1/2	2	6	6
GW-435-C	4	7 1/2	2	8	8
GW-535-C	5	9 3/4	2	10	10
GW-635-C	6	11 1/2	2	12	12

Steel City	Cat. No.	Appleton	Per 100		
			Zone 1	Zone 2	Zone 3
GW-125-C			\$56.05	\$58.90	\$61.65
GW-225-C			66.45	69.75	73.15
GW-325-C			81.95	86.05	90.15
GW-425-C			92.25	96.85	101.50
GW-525-C			102.60	107.75	112.90
GW-625-C			215.55	226.35	237.10
GW-135-C			59.30	62.25	65.20
GW-235-C			70.10	73.55	77.10
GW-335-C			86.30	90.50	94.90
GW-435-C			105.90	111.15	116.50
GW-535-C			600.00	630.00	660.00
GW-635-C			750.00	787.50	825.00

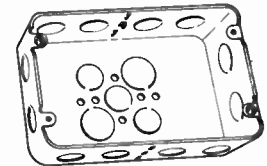
OUTLET BOXES

GANG BOXES

With Slots for Partitions



3-G Gang Box



H-2-BD Two Gang (Deep)

STANDARD GANG BOXES*

1 1/8" Deep, 4 1/2" Wide

Steel City	Cat. No.	Appleton	Length Inches	Per 100		
				Zone 1	Zone 2	Zone 3
2G-1/2 & 3/4			6 1/8	\$107.15	\$112.50	\$117.85
3G-1/2 & 3/4			8 5/8	145.00	152.20	159.55
4G-1/2 & 3/4			10 7/8	182.90	191.90	201.15
5G-1/2 & 3/4			12 3/4	252.10	264.65	277.45
6G-1/2 & 3/4			14 1/8	460.20	483.10	506.25

DEEP GANG BOXES

2 1/2" Deep — 4 1/2" Wide

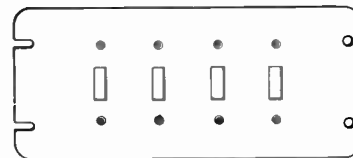
Steel City	Cat. No.	Appleton	Length Inches	Per 100		
				Zone 1	Zone 2	Zone 3
H2BD-3/4 & 1			6 1/8	\$162.25	\$170.40	\$178.45
H3BD-3/4 & 1			8 3/8	227.20	238.50	249.90
H4BD-3/4 & 1			10 1/8	272.50	286.15	299.80
H5BD-3/4 & 1			12 3/4	356.95	374.80	392.65
H6BD-3/4 & 1			14 1/8	668.45	701.85	735.30

*7, 8 or 9 gang standard boxes available

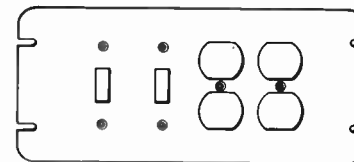
GANG BOX PARTITIONS

Steel City	Cat. No.	Appleton	Description	Per 100		
				Zone 1	Zone 2	Zone 3
SGP			For standard gang box	\$12.10	\$12.70	\$13.35
DGP			For deep gang box	14.95	15.70	16.45

GANG BOX COVERS



4GCS



4GCS-Special
For two toggle and two duplex devices

Furnished blanked for toggle switches unless otherwise specified. Can be furnished for any combination of receptacles, switches, etc.

Steel City	Cat. No.	Appleton	No. of Gangs	Per 100		
				Zone 1	Zone 2	Zone 3
2-GCS			2	\$ 54.00	\$ 56.65	\$ 59.35
3-GCS			3	83.25	87.35	91.55
4-GCS			4	114.40	120.10	125.85
5-GCS			5	160.70	168.65	176.80
6-GCS			6	257.00	269.75	282.85

BLANK COVERS

Steel City	Cat. No.	Appleton	No. of Gangs	Per 100		
				Zone 1	Zone 2	Zone 3
2-GCB	2GCX		2	\$ 36.05	\$ 37.85	\$ 39.60
3-GCB	3GCX		3	52.95	55.60	58.20
4-GCB	4GCX		4	78.40	82.35	86.30
5-GCB	5GCX		5	109.25	114.70	120.15
6-GCB	6GCX		6	186.45	195.65	205.05

UNION NON-METALLIC BOXES

SWITCH BOXES

Listed by Underwriters' Laboratories, Inc.
FOR OLD AND NEW WORK



No. 2070-N02

Two 3/4" Dia. concentric K.O.'s in each end. Supplied with plaster seals and 2 nails assembled.

Size: No. 2070-N02 — 2 1/2" x 2 1/8" x 3 1/8"; No. 2000 — 3" x 2 1/4" x 3 1/8"; No. 2050-N02 — 2" x 2 1/8" x 3 1/8".

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
2070-N02	None	100	24	\$14.15	\$14.20	\$15.30
2000	None	100	34	23.75	24.00	24.95
2050-N02	None	100	21	11.40	11.50	12.50



No. 7072-202



No. 7073-202

No. 7072-202 — 2 gang. 2 1/2" x 4" x 3 5/8". Four 3/4" Dia. concentric K.O.'s in each end. One 7/8" Dia. K.O. in bottom. Plaster seals. No. 7073-202 — 3 gang. 2 1/2" x 6" x 3 5/8". Six 3/4" Dia. K.O.'s in each end. Two 7/8" Dia. K.O.'s in bottom. 3/4" bracket offset. Plaster seals. No. 7052-202 — 2 gang. 2" x 4" x 3 5/8". Four 3/4" Dia. concentric K.O.'s in each end. Plaster seals. New strap easily adjusted for Dry Wall or Wet Wall. No. 7053-202 — 3 gang. 2" x 5 1/8" x 3 1/8". Six 3/4" Dia. K.O.'s in each end. Two 7/8" Dia. K.O.'s in bottom. Plaster seals.

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
7072-202	None	50	26 1/2	\$38.10	\$40.20	\$42.25
7073-202	None	10	6 1/2	62.50	64.85	67.15
7052-202	None	50	23	35.65	38.25	39.90
7053-202	None	10	6	58.20	60.15	62.05



No. 9030-702

No. 9030-702 — 2 1/2" x 2" x 3 3/4". Two 3/4" Dia. concentric K.O.'s in each end. One 5/8" K.O. in bottom. Plaster seals. Dry Wall-3/8" bracket offset. No. 9000-502 — 2" x 2" x 3 3/4". Two 3/4" Dia. concentric K.O.'s in each end. One 5/8" K.O. in bottom. Plaster seals. Wet Wall-3/8" bracket offset.

No. 9010-702 — 2" x 2" x 3 3/4". Two 3/4" Dia. concentric K.O.'s in each end. One 5/8" K.O. in bottom. Plaster seals. Dry Wall-3/8" bracket offset. No. 9020-502 — 2 1/2" x 2" x 3 3/4". Two 3/4" Dia. concentric K.O.'s in each end. One 5/8" K.O. in bottom. Plaster seals. Wet Wall-3/8" bracket offset.

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
9030-702	None	100	29	\$20.65	\$21.70	\$23.90
9000-502	None	100	26 1/2	17.20	18.20	20.00
9010-702	None	100	25 1/2	17.20	18.20	20.00
9020-502	None	100	28 1/2	21.25	22.30	24.50



No. 7020-8 — 2 1/8" x 2 1/8" x 3 3/4" with fixed ears and snap-in bracket. Two 3/4" dia. K.O.'s in each end. 2 clamps.

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
7020-8	2	50	19	\$28.75	\$30.25	\$31.75

OUTLET BOXES

Listed by Underwriters' Laboratories, Inc.

ROUND BOXES



Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
3080-9	2	50	22 1/2	\$41.25	\$43.25	\$45.25



No. 3090-302



No. 4060-N02

No. 3090-302 — 3 1/2" dia. — 2" deep. Two 3/4" dia. concentric K.O.'s in each side. No clamps. Mounted on #3 bracket. No. 4060-N02 — 4" dia. — 1 1/2" deep. Two 3/4" dia. concentric K.O.'s in each side. Mounted on #N bracket with nails assembled.

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
3090-302	None	50	22	\$23.75	\$25.75	\$26.65
4060-N02	None	50	21 3/4	26.25	28.25	29.20

SQUARE BOXES



No. 4040-N02



No. 4000-N02

No. 4000-N02 — 4" square-2 1/4" deep. 12 3/4" Dia. concentric K.O.'s in sides. Two 3/4" Dia. K.O.'s and one 7/8" Dia. K.O. in bottom. Mounted on #N bracket with nails assembled. No. 4040-N02 — 4" square-1 1/2" deep. Twelve 3/4" Dia. concentric K.O.'s in sides. Two 3/4" Dia. K.O.'s and one 7/8" Dia. K.O. in bottom. Mounted on #N bracket with nails assembled.

Cat. No.	No. Clamps	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
				Eastern Zone	Central Zone	Western Zone
4000-N02	None	50	30 1/2	\$42.20	\$44.40	\$46.10
4040-N02	None	50	25	32.20	34.05	35.95

4" SQUARE COVERS



No. 4041



No. 4042-12
No. 4042-34



No. 4043

No. 4041 — Flat blank. No. 4042-12 — Single gang, 1/2" deep. No. 4042-34 — Single gang, 3/4" deep. No. 4043 — Plaster ring for 3 1/4" receptacle, 1/2" deep. No. 4022-12 — 2 gang, 1/2" deep.

Cat. No.	Std. Pkg.	Pkg. Wt. Lbs.	Per -100-		
			Eastern Zone	Central Zone	Western Zone
4041	50	5 3/4	\$8.30	\$8.60	\$8.80
4042-12	50	5	11.35	11.50	11.75
4042-34	50	6	11.85	12.00	12.20
4043	50	5 1/4	11.35	11.50	11.75
4022-12	50	6	12.00	12.15	12.35

PORTER NATIONAL ELECTRIC FLOOR BOXES

"800" SERIES STANDARD FLOOR BOX

Listed by Underwriters' Laboratories



Provides convenient power source for office machinery, lighting and communication equipment. Accommodates widest range of receptacles, including 2-wire and 3-wire, NEMA grounded, T-slot and twist-lock types through 20 ampere capacity. Has large hand hole for ease of fishing.

Facilities for fast field installation of inter-communication, microphone and telephone receptacles are available. Floor plate accepts 1/2", 3/4" and 1" conduit.

Packed disassembled in individual cartons. Boxes shipped complete ready for installation. Maximum overall height 3 1/2" except Cat. No. 801, 2 7/8".

Cat. No.	Junction Box Dpth., In.	Floor Opening	Abandon Plug Dia.	Each
KO in Boxes: 2-1/2", 2-3/4" Sides and Bottom				
800	2 1/8	Service Fitting*	2 1/4	\$6.85
800-1/2"	2 1/8	1/2" Pipe Tapping	1/2	6.85
800-3/4"	2 1/8	3/4" Pipe Tapping	3/4	6.85
800-1"	2 1/8	1" Pipe Tapping	1	6.85
801	1 1/2	Service Fitting*	2 1/4	6.50
801-1/2"	1 1/2	1/2" Pipe Tapping	1/2	6.50
801-3/4"	1 1/2	3/4" Pipe Tapping	3/4	6.50
801-1"	1 1/2	1" Pipe Tapping	1	6.50
KO in Boxes: 4-1" Sides, 2-1/2", 2-3/4" Bottom				
802	2 1/8	Service Fitting*	2 1/4	6.85
802-1/2"	2 1/8	1/2" Pipe Tapping	1/2	6.85
802-3/4"	2 1/8	3/4" Pipe Tapping	3/4	6.85
802-1"	2 1/8	1" Pipe Tapping	1	6.85

*2 1/8" opening.

"800-CI" SERIES CAST IRON FLOOR BOX

For Positive Waterproof Installation
Listed by Underwriters' Laboratories

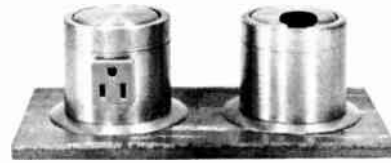
Ruggedly constructed box designed for fast, inexpensive installation where positive waterproof application is required. Cadmium plated inside and out. Made to comply with Federal Specification WC-583 governing construction of Type 2, Class "A" waterproof floor boxes. Four leveling screws provide for maximum stability and easy leveling adjustment. Boxes shipped complete ready for installation. Maximum overall height 3 7/8".



Cat. No.	Junction Box Dpth., In.	Floor Opening	Abandon Plug Dia.	Each
Side Conduit Threads: 2-1/2", 2-3/4"				
800-CI	2 1/8	Service Fittings*	2 1/4	\$8.20
800-CI-1/2"	2 1/8	1/2" Pipe Tapping	1/2	8.20
800-CI-3/4"	2 1/8	3/4" Pipe Tapping	3/4	8.20
800-CI-1"	2 1/8	1" Pipe Tapping	1	8.20
Side Conduit Threads: 2-3/4", 2-1"				
801-CI	2 1/8	Service Fittings*	2 1/4	8.20
801-CI-1/2"	2 1/8	1/2" Pipe Tapping	1/2	8.20
801-CI-3/4"	2 1/8	3/4" Pipe Tapping	3/4	8.20
801-CI-1"	2 1/8	1" Pipe Tapping	1	8.20
Side Conduit Threads: 4-1"				
802-CI	2 1/8	Service Fittings*	2 1/4	8.20
802-CI-1/2"	2 1/8	1/2" Pipe Tapping	1/2	8.20
802-CI-3/4"	2 1/8	3/4" Pipe Tapping	3/4	8.20
802-CI-1"	2 1/8	1" Pipe Tapping	1	8.20
Side Conduit Threads: 2-1", 2-1 1/4"				
810-CI	2 1/8	Service Fittings*	2 1/4	8.20

*2 1/4" openings.

SERVICE FITTINGS



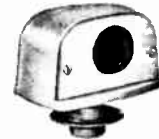
No. 856HP \$8.70 each
2 Single Receptacles
15A. Ground

No. 856A \$8.40 each
Service Fitting

HORIZONTAL DESIGN SERVICE FITTINGS



No. 803C \$8.55 each
With Receptacle



No. 804C \$ 8.05 each
No. 804BC 10.20 each
No. 804DC 8.70 each

COVER PLATES FOR SERVICE FITTINGS



No. 803P \$0.70 each



No. 804P1 \$0.70 each



No. 803P2 \$0.70 each



No. 803P1 \$0.70 each



STANDPIPE

A brass service fitting designed to accept 3/4" and 1" conduit which is installed into the standpipe through the use of a threaded nipple.

No. 937-3/4"each \$7.80
No. 937-1"each 7.80

MONUMENTAL DESIGN SERVICE FITTING



No. 804 \$8.05 each



No. 803 \$8.55 each

HUBBELL WATERTIGHT FLOOR BOXES

(Formerly Made By Russell & Stoll)

ADJUSTABLE ROUND FLOOR BOXES



No. 2503

Furnished complete with box and cover. Boxes accommodate Midget Ever-Lok and all standard 15 or 20 A. convenience receptacles.

Outlets—Regularly furnished tapped 3/4" four way; three outlets plugged. Unless otherwise specified. Type HD can also be tapped for two 1/2" or 3/4" conduits in each side. Specify size and location of special outlets. See note.

Cat. No.	Flush Cap Size, In.	Box Dia. In.	Flg. Dia. In.	Min. Ht. In.	Max. Outlet In.	List Each
2503	3/4-2-3/4	5	4 1/4	3 3/4	1	\$ 8.00
2503HD	3/4-2-3/4	5	4 1/4	4 3/4	1 1/2	10.00

ADJUSTABLE SHALLOW ROUND FLOOR BOXES

Accommodates Midget Ever-Lok and all standard 15 or 20 A., convenience receptacles. Regularly furnished complete with box and cover.

Outlets — Regularly furnished tapped 3/4-inch four way on sides; and two 3/4-inch on bottom; all plugged except one outlet on side. Unless otherwise specified.



No. 2519

Maximum conduit—3/4-inch four way on sides; two 3/4-inch or one 1-inch outlets on bottom. Specify size and location of special outlets when ordering. See note.

Cat. No.	Flush Cap Size, In.	Box Dia. In.	Flg. Dia. In.	Min. Ht. In.	Max. Outlet In.	List Each
2519	3/4-2-1/8	4 1/4	4 1/4	3	3/4	\$7.90
2520	3/4-2-1/8	4 1/4	4 1/4	2 5/8	3/4	7.90

No. 2519 Floor Box with Type M Midget Ever-Lok Receptacle and Protective Ring
10A., 250V. AC or DC, 20A., 125V. AC, 15A., 125V. DC

Receptacle Style	—Complete Less Plug—		— Plug Only —	
	Cat. No.	List Each	Cat. No.	List Each
*2 Wire, 2 Pole	2552M	\$14.00	8712	\$4.05
2 Wire, 3 Pole	2553M	14.10	8713	4.15
3 Wire, 4 Pole	2554M	14.20	8714	4.25

*Receptacles so marked have no provision for equipment grounding. All others have equipment ground through one pole.

Adjustment — Ample angular; Vertical — No. 2520, 1/4"; others 3/4".

Enclosures—Boxes: cast iron, corrosion resisting finish. Covers and flanges, brass. Can also be furnished with Forged Aluminum Covers and Flanges at same price. When so required, suffix "ALUM" to catalog number.

Note—1/2-inch, 3/4-inch and 1-inch drilled and tapped and plugged outlets as listed — no charge. Additional and/or larger outlets are extra. Plugs for 1 1/4-inch outlets and larger outlets are extra. Boxes can be furnished with slip holes at same price.

DUALEVEL® INTERCHANGEABLE FLOOR BOXES

With Two Independent Vertical and Angular Adjustments



FBSS3R



FBSD3S

Boxes accommodate Standard 15 or 20 Amp. Convenience Receptacles with Switch Box Mounting Straps, also Midget 10 and 20 Amp. Ever-Lok Receptacles. Furnished with Combination 3/4" — 2 1/4" Flush Cap and Primary Adjusting Screws.

Cat. No.	Flange Size, In.	▲Min. Ht., In.	Max. Outlet In.	List Each
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Cast Iron Box-Size 4-11/16" x 4-11/16" With Round Cover

FBSS3R	4 3/8	2 1/8	3/4	\$7.50
FBSS5R	4 3/8	3 3/8	3/4	7.50
FBSD3R	4 3/8	3 3/8	1	8.00
FBSD5R	4 3/8	3 3/8	1	8.00

With Rectangular Cover

FBSS3S	3 3/8 x 4 3/8	2 1/8	3/4	8.50
FBSS5S	3 3/8 x 4 3/8	3 3/8	3/4	8.50
FBSD3S	3 3/8 x 4 3/8	3 3/8	1	9.00
FBSD5S	3 3/8 x 4 3/8	3 3/8	1	9.00

Stamped Steel Box-Size 4-13/16" x 6" With Round Cover

FBSS3R	4 3/8	2 1/8	3/4	7.00
FBSS5R	4 3/8	3 3/8	3/4	7.00
FBSD3R	4 3/8	3 3/8	1 1/4	7.50
FBSD5R	4 3/8	4	1 1/4	7.50

With Rectangular Cover

FBSS3S	3 3/8 x 4 3/8	2 1/8	3/4	8.00
FBSS5S	3 3/8 x 4 3/8	3 3/8	3/4	8.00
FBSD3S	3 3/8 x 4 3/8	3 3/8	1 1/4	8.50
FBSD5S	3 3/8 x 4 3/8	4	1 1/4	8.50

▲Less Primary Adjusting Screws.

GANG TYPE WITH RECTANGULAR COVERS

With Cast Iron Boxes

Cat. No.	No. Gangs	Flange Size, In.	▲Min. Ht., In.	Max. Outlet In.	List Each
FBCD25S	2	6 7/8 x 4 3/8	3 3/8	1	\$17.50
FBCD23S	2	6 7/8 x 4 3/8	3 3/8	1	17.50
FBCD35S	3	9 1/4 x 4 3/8	3 3/8	1	27.00

▲Less Primary Adjusting Screws.

Outlets — Single gang: cast boxes tapped 3/4" as listed four-way; three outlets plugged. Slip holes at same price. Steel boxes have knockouts — two 1/2" and one 3/4" straight thru in sides, one 1/2" and one 3/4" straight thru in ends, three 1/2" and two 3/4" in back. Can be furnished with all 1/2" or all 3/4" knockouts. One 1" and 1 1/4" straight thru in sides, one 1 1/4" straight thru in ends, one 1" and one 1 1/4" in back. Can be furnished with all 1 1/4" knockouts.

Gang Type: Cast boxes tapped 3/4" straight thru each gang and 3/4" each end; all outlets plugged.

Adjustments — 3/4" max. with Adjusting Screws. Adjustable Collar provides vertical and angular adjustment after pouring. Covers and Flanges are Forged Brass. Suffix "ALUM" for Forged Aluminum — same price.

DISCOUNT SCHEDULES

Less Than \$100.00 List Value	0%
\$150.00 To \$199.99 List Value	5%
\$200.00 List Value	10%

HUBBELL WATERTIGHT FLOOR BOXES

(Formerly Made By Russell & Stoll)

ADJUSTABLE LEVEL RECTANGULAR FLOOR BOXES



Occupy minimum surface area in floors with very shallow fill. Boxes accommodate all standard 15 or 20 amp. convenience type receptacles. 2½" deep types also accommodate Midget Ever-Lok receptacles. Gang boxes have integral

partitions between compartments. Complete with box, cover and flush cap as listed.

Cat. No.	No. Gangs	Box Size, In.	Flange Size, In.	List Each
Shallow* Type With ¾" — 2½" Comb. Flush Cap				
FB1AC	1	3½ x 4½	3¼ x 4¾	\$ 6.80
FB21AC	2	6¾ x 4¾	6¾ x 4¾	13.50
FB31AC	3	9¾ x 4¾	9¾ x 4¾	21.00
Deep** Type With ¾" — 2½" Comb. Flush Cap				
FB1DAC	1	3½ x 4¾	3¼ x 4¾	7.80
FB21DAC	2	6¾ x 4¾	6¾ x 4¾	15.50
FB31DAC	3	9¾ x 4¾	9¾ x 4¾	24.00
Shallow* Type 2½" Flush Cap				
FB1C	1	3½ x 4¾	3¼ x 4¾	6.80
FB21C	2	6¾ x 4¾	6¾ x 4¾	13.50
FB31C	3	9¾ x 4¾	9¾ x 4¾	21.00
Deep** Type With 2½" Flush Cap				
FB1DC	1	3½ x 4¾	3¼ x 4¾	7.80
FB21DC	2	6¾ x 4¾	6¾ x 4¾	15.50
FB31DC	3	9¾ x 4¾	9¾ x 4¾	24.00

*Min. height, 2"; max. outlet, ¾".
**Min. height, 2½"; max. outlet 1".

ADJUSTABLE LEVEL ROUND FLOOR BOXES

Complete with box, cover and flush cap with 20A., 125V., 2-wire, 3-pole grounding type receptacle or without receptacle for use with above floor extensions only, as listed.



Cat. No.	Box Size, In.	Flange Size, In.	Min. Ht. In.	Max. Outlet In.	List Each
Shallow Type With Receptacle and 2½" Combination Flush Cap					
FB20GC	3¾	3¾	2	¾	\$7.40
Deep Type With Receptacle and 2½" Combination Flush Cap					
FB20DGC	3¾	3¾	2½	1	8.40
Shallow Type With ¾" — 2½" Comb. Flush Cap					
FB2AC	3¾	3¾	2	¾	6.50
Deep Type With ¾" — 2½" Comb. Flush Cap					
FB2DAC	3¾	3¾	2½	1	7.50

Outlets — Single gang: Tapped ¾" four way, three outlets plugged. Gang Boxes: Tapped two ¾" outlets straight through per gang, one plugged. Unless otherwise specified, 2" deep gang boxes can also be tapped one or two ¾" outlets on each end. 2½" deep gang boxes can also be tapped 1" in center of each end or two ¾" each end. Specify location of special outlets when ordering. See Note.

Adjustment—¾" maximum by means of locking style screws in box ears.

Enclosures—Boxes: Cast iron, corrosion resisting finish. Covers and flanges brass. Special finishes available, prices on application.

Rectangular boxes can be furnished with Forged Aluminum Covers and Flanges at same price. Add suffix "ALUM" to Cat. No. when required.

Note — ½-inch, ¾-inch and 1-inch drilled and tapped and plugged outlets as listed—no charge. Additional and/or larger outlets are extra. Plugs for 1¼-inch outlets and larger are extra. Boxes can be furnished with slip holes at same price.

LO-CON® DUPLEX FLOOR RECEPTACLE OUTLETS



Combine ultra-modern handsome styling with versatility. The smoothly rounded overhang hood serves as a shield for the receptacles and plugs. It is readily removable, permitting ease of wiring and installation to floor boxes or floor duct systems with ¾" or 1" openings.

Furnished complete with ¾" conduit nipple.

Cat. No.	Description	List Each
3092	With two duplex 15A., 125V., 2W-3P, U-ground receptacle; back-to-back...	\$10.50
3092LR	Less receptacle; with cover plates for two duplex receptacles; back-to-back	8.00
3091	With one duplex 15 A., 125V., 2W-3P, U-ground receptacle; on one side	9.25
3091LR	Less receptacle; with cover plates for one duplex receptacle; on one side	8.00
3090	With cover plates with 1" diameter brushed outlet; on one side	8.50

Housings — Satin chrome finish with stainless steel plates. Available with Midget-Ever-Lok Receptacles.

SHALLOW SAFETY DUPLEX HEAD FLOOR RECEPTACLE OUTLETS

2-Wire, 3-Pole Grounding Type
15 Amp., 125 Volts, A.C. or D.C. and Low Tension



No. 3040

Flared Safety Head minimizes the possibility of foot catching accidents. Extension Head fits any Hubbell floor box cover plate threaded for 2½" flush cap. Floor Adapter style fits floor duct or boxes with ¾" or 1" outlets. Low Tension Heads for telephone or extensions.

Cat. No.	Above Floor Height In.	Outlet Size In.	Description	List Each
Duplex Extension Head Only				
*3040	2¾	2½	With 2W., 3P. Grd. Type Receptacle	\$6.75
*3041	2¾	2½	With Low Tension Head	5.75
Duplex Extension Head with Floor Adapter				
*3044	3¾	¾	With 2W., 3P. Grd. Type Receptacle	8.75
*3047	3½	1	With 2W., 3P. Grd. Type Receptacle	8.75
*3045	3¾	¾	With Low Tension Head	7.75
*3048	3½	1	With Low Tension Head	7.75

Fittings—Brass, standard finish brush brass.
*Items so marked can be furnished in Forged Aluminum at same price. Add suffix "ALUM" to Cat. No. when required.

SPLIT-TYPE CONE NOZZLES



Durable scuff-resisting interlocking halves provide a rigid protective housing when assembled. Can be placed around cord after plug is inserted in the floor receptacle and then screwed into floor plate. Fits all Hubbell floor box cover plates with 2½" diameter thread. Accommodates all standard attachment plugs.

Cat. No.	Material	Nozzle Finish	List Each
3067	Rustolite	Brass	\$1.00
3067A	Rustolite	Aluminum	1.00
3086	Cast Aluminum	Brass	1.00
3086A	Cast Aluminum	Satin Aluminum	1.00

DISCOUNT SCHEDULES

Less Than \$100.00 List Value	0%
\$150.00 To \$199.99 List Value	5%
\$200.00 List Value	10%

STEEL CITY FLOOR BOXES

FOR TELEPHONE, INTERCOMMUNICATIONS, LIGHT AND POWER SERVICES

A COMPLETE LINE OF FLOOR BOXES DESIGNED FOR SIMPLER, FASTER, MORE ECONOMICAL INSTALLATIONS

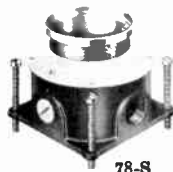
- Simplified top adjustments — accurate leveling
- Flush receptacles and modern service fittings
- Floor Boxes for thin-slab floors
- Concrete-tight and water-tight models
- Interchangeable Floor Plates — packaged separately
- Wide access openings — roomy interiors
- Aluminum or bronze floor plates, adjusting rings and edge rings

ROUND CAST IRON AND STEEL FLOOR BOXES

Adjustable Tops — Concrete Tight
Aluminum or Bronze Adjusting Rings



78



78-S



88



98

Concrete-tight floor boxes have interchangeable floor adjusting rings with 3/4" vertical adjustment. Adjusting ring pre-set 1/8" above minimum adjustment on standard top floor boxes when shipped. Terrazzo adjusting ring pre-set at minimum adjustment when shipped. All floor plates are interchangeable — not included with floor box. ORDER FLOOR PLATES SEPARATELY. Concrete-tight floor boxes furnished with expendable metal cap that prevents ingress of concrete. Standard tapping of cast iron models — 3/4", 1/2" and 3/8" or all 1/2" at no extra cost.

Specifications and Ordering Information — Series '78', '88' and '98' Floor Boxes

Aluminum or bronze adjusting rings. Adjusting rings are pre-set 1/8" above minimum adjustment on standard floor boxes when shipped. Terrazzo adjusting ring is pre-set at minimum adjustment.

Catalog Numbers		Box Top	Box Body	Box Dia. In.	Overall Height* Inches		Shipping Height Inches	Wiring Capac. Cubic Inches	Conduit Openings		Approx. Wt. Each — lbs.		Each	
Aluminum	Bronze				Min.	Max.			Sides	Bottom	Alum.	Bronze	Alum.	Bronze
Cast Iron Floor Boxes														
78-AL	78	Standard	2 1/2" Deep	4	3 3/8	4 1/8	3 1/2	23.1	4 — 3/4"	None	2 1/2	2 3/4	\$4.60	\$4.90
78-T-AL	78-T	Terrazzo	Round		3 1/2	4 1/4							5.10	5.60
78-S-AL	78-S	Standard	2" Deep	4	2 1/8	3 1/8	2 1/8	18.0	4 — 3/4"	None	2 1/4	2 1/2	4.60	4.90
78-ST-AL	78-ST	Terrazzo	Round		2 1/8	3 1/8							5.10	5.60
Galvanized Steel Floor Boxes														
88-S-AL	88-S	Standard	1 1/2" Deep	4	2 5/8	3 3/8	2 3/4	16.5	2 — 1/2"	3 — 1/2"	1 1/4	1 1/2	3.70	3.95
88-ST-AL	88-ST	Terrazzo	Octagon		2 5/8	3 1/2			2 — 3/4"	2 — 3/4"			4.20	4.50
88-D-AL	88-D	Standard	2 1/8" Deep	4	3 3/4	4	3%	23.0	2 — 1/2"	3 — 1/2"	1 1/2	1 3/4	4.05	4.25
88-DT-AL	88-DT	Terrazzo	Octagon		3 3/4	4 1/8			2 — 3/4"	2 — 3/4"			4.55	4.80
88-DA-AL	88-DA	Standard	2 1/8" Deep	4	3 3/4	4	3%	23.0	4 — 1"	3 — 1/2"	1 1/2	1 3/4	4.05	4.25
88-DAT-AL	88-DAT	Terrazzo	Octagon		3 3/4	4 1/8			4 — 1"	2 — 3/4"			4.55	4.80
98-AL	98	Standard	2 3/8" Deep	4 1/8	3 3/4	3 7/8	3%	42.0	Two each 2 — 1/2"	3 — 1/2"	1 7/8	2	4.30	4.55
98-T-AL	98-T	Terrazzo	Square		3 3/8	3 1/8			1/2", 3/4", 1", 1 1/4"	2 — 3/4"			4.80	5.10

*Exterior leveling screws not included in overall height.

ROUND CAST IRON FLOOR BOXES

Fully Adjustable Tops — Watertight
Aluminum or Bronze Edge Rings



600-AL
Deep



601
Standard



602
Shallow



603
Extra-Shallow



604
Shallow Pan Type
Non-Adjustable

Series '600' round floor boxes have three interior leveling screws that provide 3/4" vertical adjustment and ample angular adjustment of the edge frame. Edge frame is pre-set at minimum adjustment when shipped. Floor plates are interchangeable — not included with floor box. ORDER FLOOR PLATES SEPARATELY. Fully adjustable floor boxes have expendable metal cap to prevent ingress of concrete — Cat. No. 604 has treated fiber cover. Standard tapping 3/4". Combination 1/2" and 3/8" or all 1/2" available at no extra cost.

Specifications and Ordering Information — Series '600' Floor Boxes

Aluminum or bronze edge rings. Edge rings are pre-set at minimum adjustment when shipped.

Catalog Number		Box Ring	Box Diameter Inches	Overall Height* Inches		Wiring Capacity Cubic Inches		Maximum Tapping Inches		Approximate Weight Each Lbs.		Each	
Aluminum	Bronze			Min.	Max.	Min.	Max.	Using Bushing	No Bushing	Alum.	Bronze	Alum.	Bronze
600-AL	600	Regular	5	4 1/4	5	54.2	64.2	1 1/2	2	6 1/4	6 1/2	\$8.25	\$8.50
600-T-AL	600-T	Terrazzo		4 3/8	5 1/8							9.00	9.25
601-AL	601	Regular	5	3 5/8	4 5/8	43.8	53.8	1	1 1/4	5 1/2	5 3/4	4.65	4.95
601-T-AL	601-T	Terrazzo		3 1/8	4 7/8							5.40	5.65
602-AL	602	Regular	4	3 1/2	3 3/8	25.0	35.0	3/4	1	3 1/8	3 1/4	4.15	4.40
602-T-AL	602-T	Terrazzo		3 1/2	3 3/8							4.90	5.15
603-AL	603	Regular	4	2 1/2	3	20.5	27.5	3/4	3/4	2 7/8	3	4.15	4.40
603-T-AL	603-T	Terrazzo		2 5/8	3 1/8							4.90	5.15
604-AL	604	Regular	4	2 1/4	2**		16.0	3/4	3/4	2 3/8	2 1/2	3.25	3.50

*2 1/4" Exterior leveling screws not included in overall height.

**1 1/4" Exterior leveling screws not included in overall height.

STEEL CITY FLOOR BOXES
GANG TYPE CAST IRON FLOOR BOXES
 Fully Adjustable Tops — Watertight
 Aluminum or Bronze Edge Rings



641



642



643

Series '640' gang floor boxes have four interior leveling screws that provide 3/4" vertical adjustment and ample angular adjustment of the edge frame. Edge frame is pre-set at minimum adjustment when shipped. Floor plates are interchangeable — not included with floor box. ORDER FLOOR PLATES SEPARATELY. Gang floor boxes require one floor plate for each gang. Expendable metal cap prevents ingress of concrete. Standard tapping — 3/4". Combination 1/2" and 3/4" or all 1/2" available at no extra cost.

Specifications and Ordering Information — Series '640' Gang Boxes
 Aluminum or bronze edge rings. Edge rings are pre-set at minimum adjustment when shipped.

Catalog Number		Gangs	Floor Box Dimensions Inches	Overall Height* Inches		Wiring Capacity Cubic Inches		Approx. Wt. Each — lbs.		Each	
Alum.	Bronze			Minimum	Maximum	Minimum	Maximum	Alum.	Bronze	Alum.	Bronze
641-AL	641	1	4 x 5 1/2	3 1/2	4 1/4	45	57	6	6 1/2	\$ 7.10	\$ 7.60
642-AL	642	2	7 x 5 1/2	3 1/2	4 1/4	44/gang	56/gang	9 1/2	10	10.80	11.30
643-AL	643	3	10 x 5 1/2	3 1/2	4 1/4	44/gang	56/gang	13 1/2	14	16.00	16.60

NOTE: Gang Boxes for Four-, Five- and Six-Gang installations are available on special order.
 *2 1/4" Exterior leveling screws not included in overall height.

FLOOR PLATE ASSEMBLIES
ORDER SEPARATELY

Separate packaging of floor plate assemblies eliminates early job site losses, permits economical change overs and reduces inventory. Floor plates are installed factory fresh without surface imperfections common to early construction installation.

Bronze or Aluminum Floor Plates
 Assembly includes Floor Plate, Plug, Gasket and Screws.



Combination Plug



Duplex Plug



Single Plug



For Gang Boxes



Terrazzo Cover

Floor Plate Plug Size, In.	For Series 78, 88, 98				For Series 600				For Series 640			
	Aluminum	Each	Bronze	Each	Aluminum	Each	Bronze	Each	Aluminum	Each	Bronze	Each
	P-90-		P-90-		P-60-		P-60-		P-64-		P-64-	
1/2	1/2-AL	\$1.25	1/2	\$1.40	1/2-AL	\$2.10	1/2	\$2.25	1/2-AL	\$2.75	1/2	\$3.00
3/4	3/4-AL	1.25	3/4	1.40	3/4-AL	2.10	3/4	2.25	3/4-AL	2.75	3/4	3.00
1	1-AL	1.25	1	1.40	1-AL	2.10	1	2.25	1-AL	2.75	1	3.00
1 1/4	1 1/4-AL	1.25	1 1/4	1.40	1 1/4-AL	2.10	1 1/4	2.25	1 1/4-AL	2.75	1 1/4	3.00
2	2-AL	1.25	2	1.40	2-AL	2.10	2	2.25	2-AL	2.75	2	3.00
1/2 — 2	1/2-2-AL	1.75	1/2-2	2.00	1/2-2-AL	2.10	1/2-2	2.60	1/2-2-AL	3.25	1/2-2	3.60
3/4 — 2	3/4-2-AL	1.75	3/4-2	2.00	3/4-2-AL	2.10	3/4-2	2.60	3/4-2-AL	3.25	3/4-2	3.60
2 5/8	.....	.....	.....	.....	2 5/8-AL	2.10	2 5/8	2.25	2 5/8-AL	2.75	2 5/8	3.00
2" for Terrazzo	T-2-AL	2.50	T-2	2.65	T-2-AL	3.50	T-2	3.80	.....	.....	.....	.....
Duplex Lift Lid	.....	.....	.....	.....	D-AL	2.75	D	2.90	.....	.....	.....	.....

STEEL CITY FLOOR BOXES

**NON-ADJUSTABLE
WATERTIGHT**

2 1/8" diameter cast iron body. Standard tapping: two 1/2", two 3/4" in sides, two 1/2" in bottom. Maximum tapping sides and bottom is 3/8". Overall height: 3 3/8". Order P-67-F for concrete installations. Aluminum or bronze edge ring and floor plates.



671

Cat. No.	Description	Each
671	2 1/8" dia. floor box.....	\$2.25
P-67-F	Bronze Edge Ring.....	2.25
P-67-F-AL	Aluminum Edge Ring.....	2.00

**ALUMINUM OR BRONZE FLOOR PLATES
FOR 671 FLOOR BOX
3 1/2" Diameter**



Plug Size Inches	Aluminum		Bronze	
	Cat. No.	Each	Cat. No.	Each
1/2	P-67-1/2-AL	\$1.25	P-67-1/2	\$1.60
3/4	P-67-3/4-AL	1.25	P-67-3/4	1.60
1	P-67-1-AL	1.25	P-67-1	1.60
1 1/4	P-67-1 1/4-AL	1.25	P-67-1 1/4	1.60
2	P-67-2-AL	1.25	P-67-2	1.60
1/2 - 2	P-67-1/2-2-AL	1.75	P-67-1/2-2	2.10
3/4 - 2	P-67-3/4-2-AL	1.75	P-67-3/4-2	2.10

**NON-ADJUSTABLE
WATERTIGHT**

Factory assembled. 15 Amp., 125 Volt, NEMA ground receptacle. Tapping: two 1/2", two 3/4" in sides, two 1/2" in bottom. Maximum tapping sides and bottom is 3/8".



672

Cat. No.	Description	Each
672-AL	Aluminum floor plate.....	\$5.25
672	Bronze floor plate.....	5.60

RECEPTACLE INFORMATION

Steel City floor boxes accommodate a variety of flush receptacles. ORDER RECEPTACLES SEPARATELY. Specify floor plate with 2" or 2 5/8" plug to accommodate receptacles. Floor plate assemblies with 2" or 2 5/8" plug include a steel receptacle seating plate.

CARPET PLATE

For "78", "88", "98", 671 and 672 Floor Boxes
Aluminum or Bronze

Use with floor plate with 2" plug.



P-90-CP-AL

Cat. No.	Description	Each
P-90-CP-AL	Aluminum	\$2.95
P-90-CP	Bronze	3.15

CARPET PLATE

For 600 Series Round Floor Boxes

Use any floor plate in P-60 series.



P-60-CP

Cat. No.	Description	Each
P-60-CP-AL	Aluminum	\$5.60
P-60-CP	Bronze	6.00

BELL NOZZLES

Split bell nozzle in bronze or aluminum. Eliminates plug removal for bell nozzle installation.



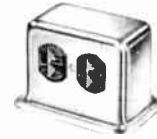
700

Cat. No.	Description	Size, In.	Thread	Throat	Each
700	Bronze	2	1/2		\$0.85
700-AL	Aluminum	2	1/2		.85
701	Cast Bronze One-Piece	2 5/8	3/4		2.25

**SERVICE FITTINGS
For Light and Power**



SFH-40-RG



SFH-50-2RG
O.A. Dimens., In.

Cat. No.	Description	W.	D.	H.	Each
SFH-40*	Less recept., with cover plate for dupl. recept.	4 3/8	3	2 5/8	\$6.55
SFH-40-RG*	With dupl. 15 amp., 125 volt, 3-wire U-slot N E M A grounded receptacle	4 3/8	3	2 5/8	8.10
SFH-50	Less recept., with two dupl.-type cover plates for back - to - back requirements ..	5	3 3/8	3	8.40
SFH-50-2RG	With two back-to-back dupl. 15 amp., 125 volts, 3-wire NEMA U-slot grounded receptacle	5	3 3/8	3	10.90
SFH-51	Less recept., with cover plate for sgl. 30 or 50 amp. recept.	5	3 3/8	3	8.00

*Chrome Finish. All others Aluminum.

SERVICE FITTINGS

For Telephone, Signal and Intercommunications



SFL-10



SFL-20



SFL-30

Cat. No.	Description	W.	D.	H.	Each
SFL-10	For all normal sgl. requirements, including 6-key set, 26 pair cables.	4 3/8	3 1/8	2 5/8	\$6.55
SFL-20	Capacity for 4 Western Electric 44A (or similar) terminal strips	4 1/2	7 1/2	2 5/8	11.55
SFL-30	Accommodates any telephone requirement with capacity larger than required for Call Director and Call Commander	5	10 7/8	3	13.65
SFL-31	Capacity for 6 Western Electric 44A connecting blocks (or similar) and buzzer	5	10 7/8	3	15.40

T & B FLOOR BOXES

NON-ADJUSTABLE WATERTIGHT FLOOR BOXES

Listed by Underwriters' Laboratories



No screws to take out to assemble this box, no careful matching of screw holes in gasket and box. Receptacle plate locks in place with a single twist, and the cover plate goes on with another. Boxes 1700 and 1701 are furnished with a receptacle (10 amp., 250 volts or 15 amp., 125 volts) and blank cover disc.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Each	Each
1703	Telephone or Signal	10	2	\$5.56
1700	Two-wire with 1666 Recept.	12	2	6.88
1729	NEMA Grounded with 1675 Recept.—125 V.	10	2	7.88
1793	Box w/o Recept.	10	2	5.56

MECHANICALLY ADJUSTABLE WATERTIGHT FLOOR BOXES

Listed by Underwriters' Laboratories



Simple to install. No loss of time holding the adjusting ring to the finished floor level waiting for the cement to harden or for the concrete to be poured. This is all taken care of mechanically. Have a 5/8" vertical and a 10° angular adjustment. Covers are mechanically grounded to the box.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Each	Each
1760	2-wire with 1666 Recept.	10	3 1/2	\$12.13
1763	Telephone or Signal	10	3 1/2	10.50
1779	NEMA Grounded with 1675 Recept.	10	4	14.75

RECTANGULAR GANG ADJUSTABLE AND WATERTIGHT

1, 2 and 3-Gangs for Light, Power and Communications

Listed by Underwriters' Laboratories



These boxes have a double mechanical adjustment: floor form adjustment by adjusting screw in ear at each corner of box; floor level adjustment by adjusting screws in cover frames. Covers have no unsightly screws. The cover is metallically grounded to the box. Boxes are heavily gasketed and are watertight.

Cat. No.	Description	Lgth. Inches	Std. Pkg.	Wt. Lbs. Each	Each
1810	One Gang	4 1/8	1	9	\$11.10
1820	Two Gang	8 3/8	1	15	20.80
1830	Three Gang	12 7/8	1	21	31.20

"REDDY-TILT" FLOOR BOXES



No. 1753



No. 1754

These steel floor boxes have 13 knockouts (8 in line) to accept conduit sizes from 1/2" to 1 1/4". Cover assembly simple and accurately aligned with finished floor level. No sealing grout required—brushed bronze face plate.

No. 1753 (for shallow fill): 4—3/4", 4—1/2" side knockouts; 3—1/2", 2—3/4" bottom knockouts.

No. 1754 (for normal fill): 2—1 1/4", 2—1", 2—1/2" side knockouts; 1—1 1/4", 2—3/4", 2—1/2" bottom knockouts.

Both boxes are 4 1/8" square.

Cat. No.	Description	Wt. Lbs. Each	Each
For Shallow Fill Floors			
1753	Brass Cover	2.5	\$7.00
1753AL	Aluminum Cover	2.75	7.00
1755	1/2" Tap & Plug, Br.	2.5	7.00
1757	3/4" Tap & Plug, Br.	2.5	7.00
1765	With 1678 Recept.	2.6	8.56
1765AL	With 1678 Recept.	2.8	8.56

Cat. No.	Description	Wt. Lbs. Each	Each
For Normal Fill Floors			
1754	Brass Cover	2.75	\$7.25
1754AL	Aluminum Cover	2.75	7.25
1756	1/2" Tap & Plug, Br.	2.75	7.25
1758	3/4" Tap & Plug, Br.	2.75	7.25
1766	With 1678 Recept.	2.6	9.19
1766AL	With 1678 Recept.	2.8	9.19

Standard package, 5.

DUPLEX FLOOR BOX OUTLET



Accommodates any standard receptacle — all aluminum brass finish. Fits all cover discs with 1/2" pipe tap. Also available with 3/4" pipe. Can also be flush mounted.

Cat. No.	Description	Wt. Lbs. Each	Each
1750	w/o Recept.	1.7	\$7.88
1751	With T-Slot Recept.	1.7	7.94
1752	With NEMA Recept. 120V	1.7	10.63
1750D	1750 w/2 Front Covers	1.7	7.88
1751D	1751 w/2 Dupl. Recept.	1.7	11.31
1752D	1752 w/2 Dupl. Recept.	1.7	12.88

Standard package, 5.

DUPLEX FLOOR OUTLET

Installs easier, quicker and looks better. Brushed aluminum finish.















Cat. No.	Description	Wt. Lbs. Each	Each
1853	For Sgl. Dupl. w/o Recept.	1.6	\$8.56
1853D	For Dbl. Dupl. w/o Recept.	1.6	8.56
1854	One NEMA Dupl. Recept.	1.8	10.63
1854D	Two NEMA Dupl. Recept.	2	12.50
1855	1" Bushed Hole for Telephone	1.6	8.56

Standard package, 5.














T & B FLOOR BOXES

RECEPTACLES

	Cat. No.	Description	Each
	1666	T Slot—2-wire	\$1.44
	1667	"Twist-Lock®" —2-wire	2.75
	1669	3-wire— 20 Amp.	3.00
	1670	"Twist-Lock®" —3-wire	2.88
	1671	3-wire Gr.— 20 Amp.	3.00
	1672	"Twist-Lock®" —3-wire	2.88
	1673	3-wire— 15 Amp.	2.75
	1674	3-wire Gr.— Polarized	2.75
	1675	NEMA Gr.— 125V.	2.75
	1677	UL-Grounded 15A-250V.	3.13
	1678	NEMA Gr.— 125V.	2.00

Standard package, 10.

FLOOR BOX PARTS AND ACCESSORIES

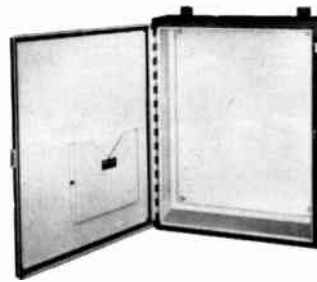
	Cat. No.	Description	Each
	1860	Brass Carpet Flange	\$2.44
	1707	Brass Cover Plug for 1706	1.25
	1707AL	Alum. Cover Plug for 1706AL	1.25
	1712	Small Fibre Gasket for 1707	.31
	1706	Round Br. Cover	1.56
	1706AL	Round Alum. Cover	1.56
	1711	Large Fibre Gasket for 1706	.31
	1709	Br. Cover Disc with 1/2" Plugged Hole	1.56
	1720	Br. Cover Disc with 3/4" Plugged Hole	1.69
	1722	1/2" Br. Plug for 1709 Disc	.56
	1723	3/4" Br. Plug for 1720 Disc	.69
	1725	Insul. Bell Nozzle with Split Top	2.31
	1728	Insul. Bell Nozzle for all T&B Fl. Boxes	2.31
	1739	Bushed Triple Nozzle. Fits 1709, 1703, 1763 cover disc	2.13
	1747*	Extension Piece, 1/2" size, 4" long. Fits 1709, 1703, 1763 cover disc	2.13
	1748	1/2" Close up Plug†	.25
	1746	3/4" Close up Plug†	.31
	1749	1" Close up Plug†	.38
	1741	Sheet Metal Protector for 1760 Series	.19
	1859	Steel Protector Cover	.25
	1793P	Adapter Plate	.44
	1816	Sq. Br. Cover for Gang Box	4.94

*Bushed extension piece can be furnished in any length. Extensions furnished in 3/4" and 1" stock, any length, when specified. Prices on application.

†With screw-driver slot.

HOFFMAN ENCLOSURES

NEMA 12 PANEL ENCLOSURES



Strong rigid sheet steel construction with all seams welded. No holes. Neoprene gasket on door keeps out oil, dust, and water. Door screw clamp provides positive closing on single door units. Double door units furnished with 3 point latch and key-locking handle.

A removable panel and print pocket are furnished. Standard finish is white enamel interior, gray prime exterior. These enclosures meet NEMA 12 (Industrial Use) standards. Other standard stock sizes available in Stainless Steel, Aluminum, Free Standing, RFI Shielded, Flush Mounted, Heavy-duty, and to accept Square D, G.E., and Cutler-Hammer side mounted disconnects. In addition to standard sizes, we furnish special sizes, finishes and modifications on order.

NEMA 12 Single Door — Wall Mounted

H x W	Stock Enclosure Sizes		Interior Panel Size
	Depths Available		
12 x 24	6, 8		9 x 21
16 x 12	6, 8, 10		13 x 9
16 x 20	6, 8		13 x 17
20 x 16	6, 8, 10, 12		17 x 13
20 x 20	6, 8, 10		17 x 17
20 x 24	6, 8		17 x 21
24 x 12	6, 8, 10		21 x 9
24 x 20	6, 8, 10, 12		21 x 17
24 x 24	6, 8, 10, 12, 16		21 x 21
30 x 20	6, 8, 10		27 x 17
30 x 24	6, 8, 10, 12, 16, 20		27 x 21
36 x 24	6, 8, 10		33 x 21
36 x 30	6, 8, 10, 12, 16		33 x 27
24 x 30	8		21 x 27
30 x 36	8		27 x 33
42 x 24	8		39 x 21
42 x 36	8, 10		39 x 33
48 x 24	8		45 x 21
48 x 30	8, 10		45 x 27
48 x 36	8, 10, 12, 16		45 x 33
60 x 36	8, 10, 12, 16		57 x 33
42 x 30	10, 8		39 x 27
72 x 30	12, 16, 20, 24		69 x 27

NEMA 12 Double Door — Floor Mounted

54 x 42	8	50 x 38
60 x 48	8, 10, 12, 16, 20, 24	56 x 44
60 x 60	10, 12	56 x 56
72 x 60	10, 12	68 x 56
72 x 72	10, 12, 16, 20, 24	68 x 68

ORDERING INFORMATION: To form catalog number, add prefix "A" to HxWxD (height x width x depth) dimension. Example:

A-122408 A-201610 A-604816

NOTE: Hinge is on height dimension. Dimensions are in inches.

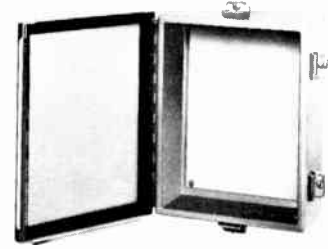
Price on Application

HOFFMAN ENCLOSURES

OIL TIGHT JIC BOXES

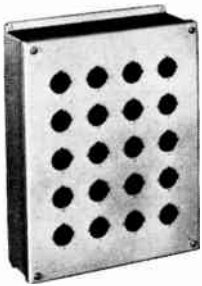


These boxes serve as wiring and instrument enclosures. They keep out oil, coolant, water and dust. There are no holes and all seams are welded. Covers have neoprene gaskets. Covers of "LP" Style boxes are secured by screw clamps and lift-off hinges; covers are also chained to body. "CH" boxes have continuous hinges on one side. All models except as noted in table have weldnuts for supporting optional panel, or terminal strap kits available with or without blocks. Regular steel boxes are finished gray hammertone. Panels are white enamel. Boxes are made to JIC standards. Standard stock units are also available with RFI Shielding. Hot dipped galvanized units are also stocked. Special sizes, finishes and modifications can be provided on order.



JIC Box Size	JIC Box Catalog Numbers							Optional Panel Cat. No.		
	Steel, Lift-Off Hinge	Continuous Hinge	Screw Cover	Clamp Cover NEMA 1	Cont. Hinge Cover NEMA 1	Stainless, Lift-Off Hinge	Alum. Lift-Off Hinge	Regular Steel	Stainless Steel	Aluminum
4x 4x3	404LP	404CH	404SC	404NF	404CHNF	404SS	404AL	----	----	----
4x 4x4	4044LP	4044CH	4044SC	----	----	----	----	----	----	----
6x 4x3	604LP	604CH	604SC	604NF	604CHNF	604SS	604AL	6P4	6P4SS	6P4AL
6x 4x4	6044LP	6044CH	6044SC	----	----	----	----	6P4	----	----
6x 6x4	606LP	606CH	606SC	606NF	606CHNF	606SS	606AL	6P6	6P6SS	6P6AL
8x 6x3½	806LP	806CH	806SC	806NF	806CHNF	806SS	806AL	8P6	8P6SS	8P6AL
10x 8x4	1008LP	1008CH	1008SC	1008NF	1008CHNF	1008SS	1008AL	10P8	10P8SS	10P8AL
12x10x5	1210LP	1210CH	1210SC	1210NF	1210CHNF	1210SS	1210AL	12P10	12P10SS	12P10AL
14x12x6	1412LP	1412CH	1412SC	1412NF	1412CHNF	1412SS	1412AL	14P12	14P12SS	14P12AL
16x14x6	1614LP	1614CH	1614SC	1614NF	1614CHNF	1614SS	1614AL	16P14	16P14SS	16P14AL

OIL TIGHT PUSHBUTTON BOXES

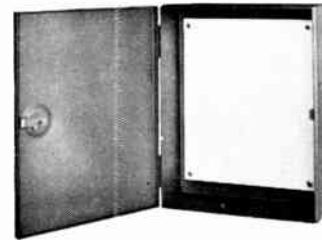


Rugged 14 gauge sheet steel construction allows you to make conduit connections anywhere. "Universal" holes receive all standard, heavy duty oil tight pushbuttons. Cover has neoprene gasket. Larger boxes have internal hinge to hold removable cover on and open when wiring buttons. Cover screws are captivated and thread into sealed wells. Completely oil and dust tight. Finish is gray hammertone enamel. Stainless units are made of type 304 stainless and have plain finish.

Style Box	Cat. Suffix	Stock Boxes (No. of PB Holes)
Standard Series	PB	1, 2, 3, 4, 6, 9, 12, 16, 20, 25
Stainless Steel	PBSS	1, 2, 3, 4, 6, 9, 12, 16
Extra Deep	PBX	1, 2, 3, 4, 6, 9, 10, 12, 16, 20, 25, 30, 36
With Panel	PBY	6, 9, 12, 16, 20, 25, 30, 36
Miniature Button	PBG	1, 2, 3, 4, 6, 9, 12, 16, 20, 25, 30, 42
Sloping Front	PBA	1, 2, 3, 4, 6, 8, 9, 10, 12, 16, 20, 25, 30
Slim Line	PBSL	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
Pendent	PBN	1, 2, 3, 4, 5, 6, 7, 8
Flush Mounting	PBFMU	1, 2, 3, 4, 6, 9, 12, 16, 20, 25

ORDERING INFORMATION: To form catalog number, add desired number of PB holes to catalog suffix of desired box style.
Example: 1PB, 9PBY, 25PBG.

NEMA 1 PANEL ENCLOSURES



These NEMA 1 enclosures are designed to house electrical controls and components when the oil and dust tight characteristics of Hoffman NEMA 12 enclosures are not required. Covers have flush latches. Boxes have holes in back for mounting purposes. Catalog numbers A-16N12A — A-42N24B are furnished with interior white enamel panels. Boxes are gray prime. Catalog numbers A-6N64 — A-14N126 have optional white enamel interior panels. Boxes are gray hammertone.

Box Cat. Number	Box Size	Box Cat. Number	Box Size
A-6N64	6x 6x4	A-24N24A	24x24x6 5/8
A-8N64	8x 6x4	A-30N20A	30x20x6 5/8
A-8N84	8x 8x4	A-30N24A	30x24x6 5/8
A-10N84	10x 8x4	A-36N24A	36x24x6 5/8
A-10N104	10x10x4	A-36N30A	36x30x6 5/8
A-12N104	12x10x4	A-16N12B	16x12x8 5/8
A-12N124	12x12x4	A-20N16B	20x16x8 5/8
A-14N124	14x12x4	A-20N20B	20x20x8 5/8
A-12N106	12x10x6	A-24N20B	24x20x8 5/8
A-12N126	12x12x6	A-24N24B	24x24x8 5/8
A-14N126	14x12x6	A-30N20B	30x20x8 5/8
A-16N12A	16x12x6 5/8	A-30N24B	30x24x8 5/8
A-20N16A	20x16x6 5/8	A-36N24B	36x24x8 5/8
A-20N20A	20x20x6 5/8	A-36N30B	36x30x8 5/8
A-24N20A	24x20x6 5/8	A-42N24B	42x24x8 5/8

Price on Application

HOFFMAN ENCLOSURES

To Provide Protection from Dust, Dirt,
Oil and Water

OIL TIGHT JIC LAY-IN WIREWAY

Protect electrical wiring from oil, dust, dirt or water. No "pulling-through" of wires is required with this design. Wires may be laid in along an entire wireway run.

Made of 14 gauge steel. All end flanges are 10 gauge steel. Seams are welded and there are no holes or knockouts.

The covers of straight sections and fittings have cellular neoprene gaskets cemented on with oil-resistant adhesive. Covers are hinged to trough bodies on one side and held closed with "Hoffman" design external clamps on the other. A 1/8" solid neoprene gasket is placed between flanges when pieces are bolted together.

After wires have been laid in, gasketed sealing plate is screwed tightly in place at the top of each joint to provide complete oil tight sealing between pieces.

Standard Sizes: 2 1/2" x 2 1/2", 4" x 4", 6" x 6", 12" x 6". **Straight sections:** 6", 1', 2', 3', 4', 5' and 10'. **Fittings:** 90° and 45° Elbows, Cross, "T", Closure Plate, Reducing Bushings, Telescope (1" to 7" adjustment) and Hangers.

OIL TIGHT JIC SECTIONAL WIREWAY

May be used for electrical wiring on machinery, equipment, and buildings — inside or outdoors where protection is desired from oil, dirt, dust or water. Special finishing desirable outside. Easy access to the interior of the wireway greatly facilitates electrical wiring. With the line of fittings available, the wireway may be assembled to fit any machinery or building requirement.

14-ga. sheet steel is used throughout except on the welded connection flanges which are of 10-ga. There are no holes in the cover, trough or fittings. The cover which has a neoprene gasket, is hinged to the trough on one side and held with external clamps on the other. Flanges are welded to both ends of each section and on all fittings. The flanges bolt together. A neoprene gasket is placed between each section. Finish is a baked gray hammertone enamel on a phosphatized surface.

Standard Sizes: 2 1/2" x 2 1/2", 4" x 4", 6" x 6" and 8" x 8". **Straight sections:** 1', 2', 3', 4', 5' and 10'. **Fittings:** 90° and 45° Elbows, Cross "T", Closure Plate, Reducing Bushings, Swivel Nipple, Telescope (1 1/2" to 13" adjustment) and Hangers.

Price on Application

**HOFFMAN WEATHERPROOF
POWER OUTLETS**

The most convenient design in weatherproof power outlets. Large receptacles, fuse pullouts, and circuit breakers are mounted on the inside back of the box rather than on the panel. This allows the panel to be taken completely out during hook-up and provides plenty of wiring room inside the box.

Units are prewired and the only connections necessary are the incoming wires and an equipment ground.

There is a complete model selection for farms, mobile home parks, etc., wherever an outdoor power source is needed. Units are available with rating from 15 to 120 amps with a wide variety of receptacles to fit your exact needs.

Boxes are made of galvanized steel with gray enamel finish. Pressure connectors are electro tin plated for use with copper or aluminum wire. Cord slots with rounded edges allow covers to be closed and padlocked when outlets are in use.

Other companion items available include Pole Top Switches, Remote Control Switches, Weatherproof Terminal Boxes, Fuse Pullout Boxes, Pull Boxes, Cutout Boxes, Raintight Enclosures, Multi-outlet Boxes, Angle Caps and Weatherproof Service Junction Posts for mobile home parks.

HOFFMAN ENCLOSURES**MULTIPLE USE OIL TIGHT CONSOLE**

No. C14B

For Electrical and Electronic Use

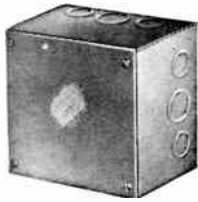


Made of 14 gauge steel with welded seams. Height is 50", width 24" and depth 23". There is an optional writing desk and casters also available.

The sloping front panel is ideal for mounting meters, switches and push-buttons. Flush, keylocking gasketed doors, front and rear, provide access to lower sub-panels which can be either stationary or swing-out. Note provision for pull-out electronic chassis and rack panels if desired, or combination stationary panel with pull-out chassis. This is the most versatile, heavy duty, all-welded oil tight and dust tight cabinet available.

COLUMBIA PULL BOXES

Columbia pull boxes are constructed to code specs for all surface mounted wiring requirements. Standard finish is gray enamel. The more popular sizes are listed. Check Graybar for special requirements including: without knockouts, galvanized, aluminum, or other sizes, etc.



Type SC

DIMENSION (H x W x D)	TYPE SC—SCREW COVER—		TYPE A—HINGE COVER—	
	Pkg.	Pkg. Wt.	Each Pkg.	Pkg. Wt.
4½ x 5x3	—	—	10	20 Lbs.
6 x 6x3	10	27 Lbs.	10	28 Lbs.
6 x 6x4	10	32 Lbs.	10	32 Lbs.
8 x 6x4	10	40 Lbs.	10	40 Lbs.
8 x 8x4	5	25 Lbs.	5	25 Lbs.
10 x 8x4	5	28 Lbs.	5	28 Lbs.
12 x 8x4	5	31 Lbs.	5	33 Lbs.
10 x 10x4	5	33 Lbs.	5	35 Lbs.



Type A

DIMENSION (H x W x D)	TYPE SC—SCREW COVER—		TYPE A—HINGE COVER—	
	Pkg.	Pkg. Wt.	Each Pkg.	Pkg. Wt.
12 x 10x4	5	34 Lbs.	5	38 Lbs.
12 x 12x4	5	43 Lbs.	5	43 Lbs.
8 x 8x6	5	29 Lbs.	—	—
12 x 12x6	3	32 Lbs.	3	33 Lbs.
18 x 12x6	3	40 Lbs.	3	41 Lbs.
18 x 18x6	2	42 Lbs.	2	40 Lbs.
24 x 18x6	1	28 Lbs.	1	28 Lbs.
24 x 24x6	1	42 Lbs.	1	40 Lbs.

COLUMBIA

TELEPHONE CABINETS



Type PS

Columbia telephone cabinets feature removable gray enamel trim, piano hinge, and panel board latch with galvanized bodies. Check Graybar for price and special requirements.



Type PF

COLUMBIA

TRANSFORMER CABINETS



Double Door

Transformer cabinets are gray enamel on heavy sheet steel. Vault handle is standard with single or 3 point latching. For standard or special needs check Graybar.



Single Door

COLUMBIA WIREWAYS

All Columbia wireways are fabricated of code gauge steel with a gray enamel finish. Screws, bolts, and nuts are provided with each part for custom job site assembly. All fittings necessary for complete installation flexibility are available. Check Graybar for prices and special requirements.



TYPE AFS is screw cover lay-in flangeless wireway available with or without knockouts. Standard sizes include: 2½" x 2½", 4" x 4", 6" x 6", 8" x 8", 10" x 10", and 12" x 12".



TYPE AFH is hinged cover lay-in flangeless wireway available with or without knockouts. Standard sizes include: 2½" x 2½", 4" x 4", 6" x 6", and 8" x 8".



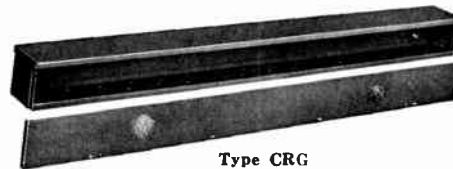
TYPE CD is neoprene gasketed, hinged cover (with external positive-pressure latching type clamps) flanged wireway. All items include necessary neoprene flange gaskets. Standard sizes include: 2½" x 2½", 4" x 4", 6" x 6", and 8" x 8".

Price on Application

COLUMBIA

RAIN TIGHT SCREW COVER BOXES AND WIRING GUTTERS

Overhanging flanges on top "shingle" over sides protecting enclosed wiring from the elements. Cover also slides under front flange and wide side flanges nest into body recesses. Screws at the bottom hold the cover in place and provide quick access. Knockouts are provided at the bottom. Finish is gray enamel. Check Graybar for prices.



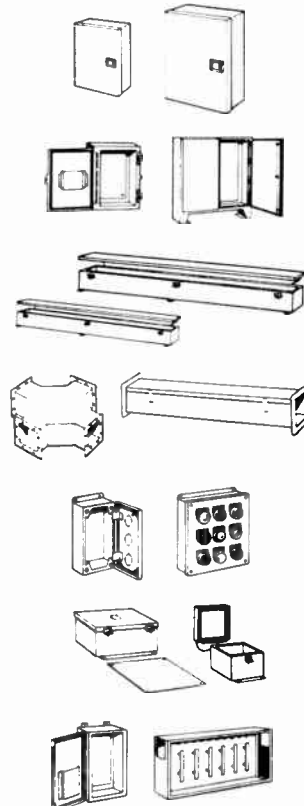
Type CRG



Type CRSC

COLUMBIA

NEMA-JIC ENCLOSURES



Columbia produces standard special NEMA 1 and NEMA 12 enclosures, "JIC" enclosed wiring troughs, oil-tight pushbutton enclosures, "JIC" terminal and pull box enclosures, and special custom boxes and cabinets. All are fabricated from code gauge steel (depending on size, etc.).

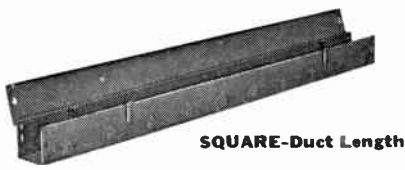
NEMA 1 enclosures are gray prime coated inside and out with a removable white enameled panel.

NEMA 12 enclosures are gray prime outside, white enamel inside with a removable white enameled panel.

JIC WIRING TROUGH, PUSHBUTTON, TERMINAL AND PULL BOX enclosures are all gray hammertone inside and out.

These enclosures are also available in galvanized and other special finishes and aluminum and other materials.

**SQUARE D WIREWAY
SQUARE-DUCT® AND FITTINGS**



SQUARE-Duct Length



90° Elbow



Hinged Connector



Wire Retainer



Cut-Off Fitting



Universal Hanger

SQUARE-Duct combination wireway is usable as either Hinge Cover or Screw Cover Duct. Provides full lay-in features throughout. Hinged covers are quickly removed and replaced by pressing spring tabs. All SQUARE-Duct components are U/L listed as steel enclosed wireway and auxiliary gutter. Finish: Blue-gray baked enamel.

NO CONNECTORS ARE FURNISHED WITH LENGTHS OR FITTINGS

Component	Description	2½" x 2½"				4" x 4"				6" x 6"				8" x 8"		
		Cat. No.		Wt.	Price	Cat. No.		Wt.	Price	Cat. No.		Wt.	Price	Cat. No.	Wt.	Price
		Knock-outs	Without Knockouts			Knock-outs	Without Knockouts			Knock-outs	Without Knockouts					
Length	1 Foot	LD21	LD21WK	2¾	\$ 2.40	LD41	LD41WK	4	\$ 2.90	LD61	LD61WK	6	\$ 6.40	LD81	8	\$10.80
	2 Foot	LD22	LD22WK	5	3.80	LD42	LD42WK	7	4.80	LD62	LD62WK	11	8.40	LD82	17	16.50
	3 Foot	LD23	LD23WK	7½	6.40	LD43	LD43WK	11	7.70	LD63	LD63WK	16	11.60	LD83	26	23.70
	4 Foot	LD24	LD24WK	10	8.70	LD44	LD44WK	15	10.30	LD64	LD64WK	22	15.80	LD84	34	29.00
	5 Foot	LD25	LD25WK	11¾	10.30	LD45	LD45WK	18	11.60	LD65	LD65WK	26½	19.50	LD85	42	34.00
	10 Foot	LD210	LD210WK	24	21.20	LD410	LD410WK	36	23.90	LD610	LD610WK	53	40.00			
Elbow	90 degrees	LD290L		1	6.20	LD490L		3	7.20	LD690L		8	10.00	LD88L	20	15.50
	90 degree sweep bend					LD490LS		3	15.20	LD690LS		10	21.10			
	45 degrees	LD245L		1	4.80	LD445L		3	6.00	LD645L		7	8.40	LD845L	20	15.50
	22½ degrees	LD225L		1	4.80	LD425L		3	6.00	LD625L		5	8.40			
Tee Junction Box	Branch from runs	LD2T		2	8.80	LD4T		4	10.30	LD6T		8	11.70	LD88T	19	33.00
	For T, L or Cross (4 sides — 1 opening each)	LD2J		2	9.90	LD4J		4	11.70	LD6J		9	11.70	LD88J	30	33.00
Pull Box	For T, L or Cross (2 sides — 1 opening)					LD4PB		14	31.80	LD6PB		26	64.60			
	(2 sides — 2 openings)															
Telescope Transposition Section	Slide adjustment	LD2TF		5	9.00	LD4TF		5	9.00	LD6TF		9	37.00			
	Rotates wireway 90°	LD21TS		3	4.10	LD41TS		4	5.20	LD61TS		6	11.30			
Connector Hanger	Couples lengths and fittings	LD2C		¾	.60	LD4C		¾	.60	LD6C		1	1.20	LD88C	1	1.80
	Universal — drop or side	LD2H		½	1.00	LD4H		1¼	1.30	LD6H		2½	4.10	LD88H	3	5.70
Closing Plate	Seals openings	LD2CP		¾	.60	LD4CP		½	.60	LD6CP		1	1.20	LD88E	2	1.80
	Snap-in spring steel strap	LD2WR		¾	.20	LD4WR		¾	.25	LD6WR		¾	.30			
Adaptor	Connects to panel square duct, etc.	LD22A		1	2.10	LD44A		1½	2.40	LD66A		4	3.60	LD88A	2	5.20
	4" x 4" to 2½" x 2½"					LD42R		1	4.80	LD64R		2	9.80	LD86R	2	11.30
Reducer	6" x 6" to 4" x 4"															
	8" x 8" to 6" x 6"															
Gusset Bracket	Mount for vertical wall (No hanger required)	LD2GB		¾	1.00	LD4GB		½	1.30	LD6GB		1	4.10			
	3 Inch	LD23N		½	2.60	LD43N		1	3.10	LD63N		2	6.40			
Nipple	6 Inch	LD26N		1	2.60	LD46N		2	3.10	LD66N		3	6.40			
	9 Inch	LD29N		2	2.60	LD49N		3	3.10	LD69N		4½	6.40			
	3 Foot															
Cut-off Fitting	For cutting odd dimensions	LD23CF		7½	6.40	LD43CF		11	7.70	LD63CF		16	11.60	LD83CF	26	23.70

SQUARE D RAINIGHT WIREWAY

Raintight wireway is for ganging meter devices, panels, switches. Each length is a completely enclosed section with a removable cover that has a provision for sealing. Knockouts are located along the bottom of the wireway. Lengths without knockouts are available — add WK suffix. Finish: Blue-gray baked enamel.

Description	4" x 4"		6" x 6"	
	Cat. No.	Price	Cat. No.	Price
1 Foot Length	RD41	\$ 6.70	RD61	\$14.00
2 Foot Length	RD42	10.00	RD62	17.30
3 Foot Length	RD43	14.40	RD63	24.00
4 Foot Length	RD44	17.80	RD64	30.80
5 Foot Length	RD45	21.60	RD65	36.50



Raintight Wireway

The above items are subject to 50% Discount.

SQUARE D TELEPHONE AND EQUIPMENT CABINETS

TWO-PIECE CABINETS WITH MONO-FLAT® FRONT

Cabinets are designed to match standard lighting panelboards in appearance, height and depth. Fronts — code gauge steel with concealed trim clamps, door with concealed hinges and flush lock. Boxes — code gauge galvanized steel with removable blank endwalls. Boxes and fronts are U/L listed. Finished with blue-gray baked enamel.



Two-Piece Cabinet with Mono-Flat® Front

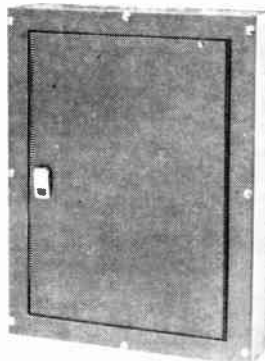
Dimensions			Box Only		Front Only		Box & Front		★Wood Backing	
W	H	D	Cat. No.	Price	Cat. No.	Price	Wt.	Price	Cat. No.	Price
14	20½	4	TC-14204B	\$16.50	TC-14204TF or TS	\$19.60	20	\$36.10	TC-1420W	\$ 4.10
18	24¼	4	TC-18244B	22.70	TC-18244TF or TS	28.00	31	50.70	TC-1824W	6.20
24	23	6	TC-24236B	30.00	TC-24236TF or TS	33.00	42	63.00	TC-2423W	8.20
24	26	6	TC-24266B	32.00	TC-24266TF or TS	35.00	47	67.00	TC-2426W	9.30
24	28	4	TC-24284B	29.00	TC-24284TF or TS	36.00	46	65.00	TC-2428W	10.30
*30	29	6	TC-30296B	39.00	TC-30296TF or TS	48.00	78	87.00	TC-3029W	13.40
*30	32½	4	TC-30324B	37.00	TC-30324TF or TS	50.00	77	87.00	TC-3032W	14.40
*36	35	6	TC-36356B	57.00	TC-36356TF or TS	72.00	106	129.00	TC-3635W	18.50

*Fronts have double doors with 3-point vault lock.

★¾" plywood backing finished with black insulating varnish. Easily installed in field.

TWO-PIECE CABINETS WITH SCREW COVER

Cabinets with screw cover are designed with maximum door opening for access to the cabinet interior. Top and bottom endwalls have knockouts. Trims have hinged door with flush latch. Boxes and trims are U/I listed. Finished with blue-gray baked enamel.



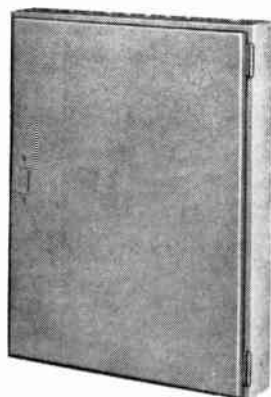
Two-Piece Cabinet with Screw Cover and Door

Dimensions			Box Only		Front Only†		Box & Front		Wood Backing	
W	H	D	Cat. No.	Price	Cat. No.	Price	Wt.	Price	Cat. No.	Price
12	12	4	12124B	\$ 7.20	1212TF or TS	\$ 9.30	11	\$16.50	1212W	\$ 3.10
12	16	4	12164B	9.30	1216TF or TS	12.40	13	21.70	1216W	4.10
12	16	6	12166B	12.40	1216TF or TS	12.40	14	24.80	1216W	4.10
12	18	4	12184B	9.30	1218TF or TS	13.40	16	22.70	1218W	5.20
12	18	6	12186B	13.40	1218TF or TS	13.40	18	26.80	1218W	5.20
12	24	4	12244B	10.30	1224TF or TS	15.50	22	25.80	1224W	6.20
12	24	6	12246B	15.50	1224TF or TS	15.50	23	31.00	1224W	6.20
18	18	4	18184B	10.30	1818TF or TS	16.50	23	26.80	1818W	6.20
18	18	6	18186B	15.50	1818TF or TS	16.50	25	32.00	1818W	6.20
18	24	4	18244B	15.50	1824TF or TS	24.70	28	41.20	1824W	7.20
18	24	6	18246B	22.70	1824TF or TS	24.70	30	47.40	1824W	7.20
18	30	4	18304B	18.50	1830TF or TS	27.00	33	45.50	1830W	8.20
18	30	6	18306B	24.70	1830TF or TS	27.00	38	51.70	1830W	8.20
24	24	4	24244B	18.50	2424TF or TS	29.00	35	47.50	2424W	9.30
24	24	6	24246B	24.70	2424TF or TS	29.00	37	53.70	2424W	9.30
24	30	4	24304B	23.70	2430TF or TS	35.00	40	58.70	2430W	11.30
24	30	6	24306B	33.00	2430TF or TS	35.00	45	68.00	2430W	11.30
24	36	4	24364B	26.00	2436TF or TS	38.00	57	64.00	2436W	14.40
24	36	6	24366B	34.00	2436TF or TS	38.00	59	72.00	2436W	14.40
30	30	4	30304B	28.00	3030TF or TS	42.00	60	70.00	3030W	15.50
30	30	6	30306B	35.00	3030TF or TS	42.00	62	77.00	3030W	15.50
30	36	4	30364B	30.00	3036TF or TS	46.00	71	76.00	3036W	17.50
30	36	6	30366B	36.00	3036TF or TS	46.00	78	81.00	3036W	17.50
30	48	6	30486B	46.00	3048TF or TS	57.00	101	103.00	3048W	22.70
36	48	6	36486B	70.00	3648TF or TS	82.00	150	152.00	3648W	28.00

†All fronts have single door and spring catch except 3648TF or TS which has double doors and 3-point lock. For cylinder lock in single-door trims, add \$5.00 list and letter "L" in catalog number, i.e., 1216LTF.

ONE-PIECE CABINETS

One-piece telephone and equipment cabinets have a hinged door permanently fastened to the box and a button catch. Top and bottom endwalls have knockouts. A knockout in the door is provided for installation of a PK2FL lock kit. Finished with blue-gray baked enamel.



One-Piece Cabinet

Dimensions	Cat. No.	Weight	Price	Dimensions	Cat. No.	Weight	Price
12" x 18" x 4"	12184T	13	\$16.50	24" x 30" x 4½"	243045T	38	\$37.00
18" x 24" x 4"	18244T	23	24.70	30" x 36" x 4½"	303645T	61	58.00

The above items are subject to 50% Discount.

KEYSTONE WIREWAY SYSTEMS

The Ultimate in Wiring Convenience, Flexibility and Reaccess



Flangeless Screw-Cover Wireway



"T" Fitting and Pull Box



90° Elbow and Pull Box



Flangeless Hinged-Cover Wireway

Listed by Underwriters Laboratories, Inc.

Keystone Wireway Systems afford wiring ease unequaled with any other circuit or distribution enclosing device. Wires and cables are conveniently layed in place without conductor damaging stuffing or pulling. Taps are made with ease anywhere along the run. Reaccess, add-on and additional taps can be made at any time.

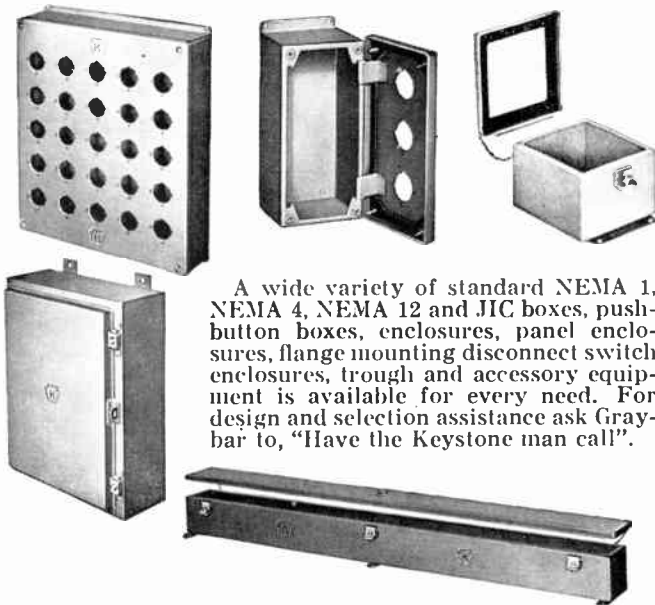
Components are produced from electrical code gauge steel. Keystone Wireway Systems are available with either durable baked gray enamel finish or galvanized steel. Screws, nuts and bolts required are packaged with each part. Lengths are available with or without knockouts. Ask Graybar to, "Have the Keystone man call".

ITEM	2 1/2" x 2 1/2"	4" x 4"	4" x 6"	6" x 6"	8" x 8"	10" x 10"	12" x 12"
1' Lgth.*	KFW-221 \$1.20	KFW-441 \$1.40	KFW-461 \$2.40	KFW-661 \$3.10	KFW-881 \$5.25	KFW-10101 \$9.80	KFW-12121 \$11.13
2' Lgth.*	KFW-222 2.10	KFW-442 2.35	KFW-462 3.50	KFW-662 4.10	KFW-882 8.00	KFW-10102 14.80	KFW-12122 17.13
3' Lgth.*	KFW-223 3.10	KFW-443 3.75	KFW-463 4.90	KFW-663 5.65	KFW-883 11.50	KFW-10103 22.33	KFW-12123 26.13
4' Lgth.*	KFW-224 4.20	KFW-444 5.00	KFW-464 6.60	KFW-664 7.65	KFW-884 14.00	KFW-10104 28.58	KFW-12124 33.63
5' Lgth.*	KFW-225 5.00	KFW-445 5.65	KFW-465 8.10	KFW-665 9.45	KFW-885 16.50	KFW-10105 33.85	KFW-12125 40.28
10' Lgth.*	KFW-2210 10.30	KFW-4410 11.60	KFW-4610 16.83	KFW-6610 19.50	KFW-8810 33.85	KFW-101010 53.90	KFW-121210 63.28
Tee	KFTF-220 4.25	KFTF-440 5.00	KFTF-460 6.50	KFTF-660 5.70	KFW-880 14.30	KFTF-1010 21.63	KFTF-1212 25.23
90° L	KFEP-220 3.00	KFEP-440 3.45	KFEP-460 4.75	KFEP-660 4.85	KFEP-880 6.65	KFEP-1010 12.05	KFEP-1212 13.73
Panel Adapter	KFPA-220 1.00	KFPA-440 1.15	KFPA-460 1.65	KFPA-660 1.75	KFPA-880 2.50	KFPA-1010 5.45	KFPA-1212 6.33
U-Connector	KFUC-220 .30	KFUC-440 .30	KFUC-460 .63	KFUC-660 .60	KFUC-880 .85	KFUC-1010 1.80	KFUC-1212 2.03
Closing Plate	KFCP-220 .30	KFCP-440 .30	KFCP-460 .63	KFCP-660 .60	KFCP-880 .85	KFCP-1010 2.10	KFCP-1212 2.25
Cross (x)	KFCPB-220 4.80	KFCPB-440 5.70	KFCPB-460 6.10	KFCPB-660 5.70	KFCPB-880 16.00		
Hanger	KFUH-220 .50	KFUH-440 .65	KFUH-660 2.00	KFUH-660 2.00	KFUH-880 2.75	KFUH-1010 2.60	KFUH-1212 2.85
Reducer	KFRB-220 2.15	KFRB-440 2.15	KFRB-464 4.70	KFRB-646 4.75	KFRB-860 5.50		
Teslope	KFTSF-220 4.35	KFTSF-440 4.35	KFTSF-460 18.00	KFTSF-660 18.00			

*For hinge cover add "H" to lengths, i.e., KFWH. For galvanized add suffix "GALV", i.e., KFW-221-GALV. Without knockouts add suffix, "NKO", i.e., KFW-221-NKO. For both add both suffixes, i.e., KFW-221-GALV-NKO. Consult Graybar for less common fittings.

KEYSTONE

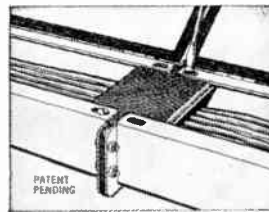
NEMA-JIC BOXES, ENCLOSURES AND TROUGH



A wide variety of standard NEMA 1, NEMA 4, NEMA 12 and JIC boxes, push-button boxes, enclosures, panel enclosures, flange mounting disconnect switch enclosures, trough and accessory equipment is available for every need. For design and selection assistance ask Graybar to, "Have the Keystone man call".

KEYSTONE

JIC OIL-TIGHT LAY-IN WIREWAY SYSTEMS



Keystone's oil-tight, lay-in wireway and fittings provide rigid structural protection for all types of electrical wiring from oil, dust, dirt, coolants, water and lubricants. These versatile systems allow fast installation, and easy access throughout the entire run. Keystone's unique SIN-

GLE PLATE Sealing Closure eliminates pulling through of wires. They meet JIC oil-tight standards and are available in a wide range of sizes with all fittings.



"JIC" Flanged Hinged-Latched Cover Wireway

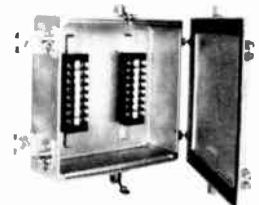
Completely gasketed with convenient hinged and latched covers for easy access, this rigid wireway system is finished with durable baked gray enamel. Standard sizes are 2 1/2" x 2 1/2", 4" x 4", 6" x 6", and 8" x 8".

KEYSTONE PULL BOXES, GUTTER AND CABINETS



Keystone pull boxes, wiring gutter and cabinets are made in a wide variety, for every wiring need.

Price on Application

HOPE CAST IRON BOXES**TYPE H2200****TYPE H3200****TYPE H5800****TYPE H7000****TYPE H6000****TYPE H3200-T****UNFLANGED JUNCTION BOXES TYPE H2200**

Weatherproof—Surface Mounting—
NEMA III, IV, V

Type H2200 boxes are equipped with overlap cover and retained gasket. Specify bossed conduit entrances to ensure raintight and dust-tight engagement. Mounting lugs add to ease of installation. Interior mounting buttons, tapped blind to specified centers, required for installation of panels or apparatus.

Standard Construction: Cast Iron Box and Cover; Hot Dip Galvanized finish; Neoprene gasket; Brass Machine screws.

Special Construction: Drilling; Tapping; Bosses for five threads; Mounting lugs; Interior buttons; Special gaskets; Panels.

Boxes are available with inside dimensions of 4" long x 4" wide x 3" deep thru 36" long x 36" wide x 12" deep.

HINGED COVER JUNCTION BOXES TYPE H3200

Weatherproof—Surface Mounting—
NEMA III, IV, V

Retained rubber gasket, adequate pressure hinges and brass wingnut provide thorough weathertight and dust-tight closure. Bossed and tapped conduit entrances recommended. Mounting lugs for ease of installation. Ideal for enclosing panels, transformers, relays and many diverse types of electrical equipment.

Standard Construction: Cast Iron Box and Cover; Hot Dip Galvanized finish; Retained Neoprene gasket; Brass with bronze hardware.

Special Construction: Drilling; Tapping; Bosses for five threads; Mounting lugs; Interior buttons; Special gaskets; Hasp.

Boxes are available with inside dimensions of 5" long x 5" wide x 3" deep thru 36" long x 36" wide x 12" deep.

SIDEWALK BOXES TYPE H5800

Weatherproof—Flush Mounting—NEMA III, IV, V

H5800 type boxes widely installed in sidewalks and walkways of bridges, dams, tunnels, approaches and airports. The checkered non-slip cover, flush with finished concrete, is cross-ribbed for heavy pedestrian traffic. Flanges and covers are replaceable without disturbing box and conduits when heavy vehicle damages installation. Monel cap screws, set down in counter-bore assure weathertight closure.

Standard Construction: Box, Flange and Cover of cast iron; Hot Dip Galvanized finish; Neoprene gasket; Monel hardware.

Special Construction: Drilling; Tappings; Bosses for five threads; Special gaskets.

Boxes are available with inside dimensions of 6" long x 6" wide x 4" deep thru 36" long x 24" wide x 14" deep.

FLOOR AND SIDEWALL BOXES TYPE H7000

Weatherproof—Flush Mounting—NEMA III, IV, V

Intended for flush mounting in side walls or parapets, or in concrete floors where light pedestrian traffic is encountered. For industrial floors, checkered galvanized steel covers should be specified to carry moderate hand-truck traffic. Non-adjustable.

Standard Construction: Box and plain cover of cast iron; Hot Dip Galvanized finish; Neoprene gasket; Galvanized checkered steel cover if specified on order.

Special Construction: Drillings; Tappings; Bosses for five threads; Mounting lugs; Special gaskets; Plain brass or checkered bronze covers.

Boxes are available with inside dimensions of 4" long x 4" wide x 3" deep thru 36" long x 24" wide x 30" deep.

EXPLOSION RESISTING HOUSINGS TYPE H6000

Class I, Group D—Surface Mounting—NEMA VII

Manufactured to the standards of the Underwriters' Laboratories but not tested by that agency. Specifying engineers recognize the rugged construction with bolt-on type covers as wholly adequate for installation in Class I hazardous locations of explosive vapors in refineries, chemical and powder plants, paint, varnish and solvent manufacture.

Standard Construction: Box and Cover of cast iron; Hot Dip Galvanized finish; Metal to Metal joint; Two mounting lugs each long side.

Special Construction: Five thread tapping; Bosses with five threads; Interior mounting buttons; Bronze hinges.

Boxes are available with inside dimensions of 5" long x 5" wide x 3" deep thru 70" long x 30" wide x 14" deep.

TERMINAL CABINETS TYPE H3200-T

Weatherproof—Dust-Tight—Surface Mounting
NEMA III, IV, V

Hinged terminal cabinets enclosing rugged terminal blocks in a variety of sizes to meet differing wiring conditions. The blocks, rated at 30 amps, 750 volts, are mounted on blind tapped buttons raised above back of box to provide air gap; each has white target strip for marking circuits. Ample wiring gutters. Ideal for thermocouple and telephone circuits; instrumentation. Galvanized finish.

Cabinets are available with inside dimensions of 5" long x 5" wide x 3" deep thru 34" long x 30" wide x 5 3/4" deep.

Underwriters Laboratories approved.

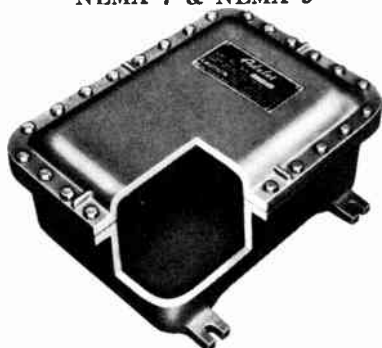
Specially designed or sized boxes available on request.

Price on Application

ADALET CAST ALUMINUM ALLOY JUNCTION BOXES AND HOUSINGS

EXPLOSION-PROOF AND DUST-TIGHT

Class I, Group D; Class II, Groups E, F & G;
NEMA 7 & NEMA 9



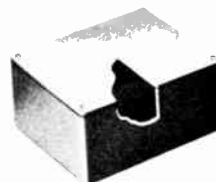
Cat. No.	Inside* Nominal			Wall Thick.	Shpg. Wt. Lbs.	List
	W	L	D			
†XJF-041604	4	16	4	1/2	25	\$94.10
†XJF-061105	6	11	5	1/2	24	87.00
†XJF-061204	6	12	4	1/2	24	76.65
†XJF-061206	6	12	6	1/2	29	92.55
†XJF-061305	6	13	5	1/2	26	92.00
†XJF-071004	7	10	4	5/8	27	77.35
†XJF-071006	7	10	6	5/8	31	88.50
†XJF-071805	7	18	5	5/8	55	120.00
†XJF-080804	8	8	4	5/8	24	75.00
†XJF-080806	8	8	6	5/8	28	85.70
†XJF-080808	8	8	8	5/8	35	105.65
†XJF-081004	8	10	4	5/8	30	85.70
†XJF-081006	8	10	6	5/8	34	97.50
†XJF-081008	8	10	8	5/8	39	124.20
†XJF-101004	10	10	4	5/8	34	96.40
†XJF-101006	10	10	6	5/8	44	112.60
†XJF-101008	10	10	8	5/8	50	132.60
†XJF-101404	10	14	4	5/8	42	125.00
†XJF-101406	10	14	6	5/8	49	140.00
†XJF-101408	10	14	8	5/8	57	160.00
†XJF-121204	12	12	4	3/4	60	124.20
†XJF-121206	12	12	6	3/4	68	141.55
†XJF-121208	12	12	8	3/4	80	160.45
†XJF-121804	12	18	4	3/4	85	179.00
†XJF-121806	12	18	6	3/4	93	202.85
†XJF-121808	12	18	8	3/4	101	229.00
†XJF-122005	12	20	5	3/4	104	215.00
†XJF-122404	12	24	4	3/4	116	215.00
†XJF-122406	12	24	6	3/4	127	241.40
†XJF-122408	12	24	8	3/4	140	289.00
†XJF-123604	12	36	4	1	192	328.00
†XJF-123606	12	36	6	1	212	368.00
†XJF-123608	12	36	8	1	232	441.20
XJF-124608	12	46	8	1	280	540.00
†XJF-141404	14	14	4	3/4	91	152.10
†XJF-141406	14	14	6	3/4	97	180.00
†XJF-141408	14	14	8	3/4	193	206.50
†XJF-161604	16	16	4	1	114	205.00
†XJF-161606	16	16	6	1	135	227.50
†XJF-161608	16	16	8	1	156	262.00
†XJF-162406	16	24	6	1	190	303.00
XJF-164610	16	46	10	1	390	620.00
†XJF-181804	18	18	4	1	154	268.00
†XJF-181806	18	18	6	1	177	294.50
†XJF-181808	18	18	8	1	200	321.50
†XJF-182406	18	24	6	1	226	334.10
†XJF-182408	18	24	8	1	239	369.60
XJF-183608	18	36	8	1	318	552.00
XJF-183610	18	36	10	1	340	605.00
XJF-242408	24	24	8	1	302	444.00

All XJF Junction Boxes listed by Underwriters' Laboratories have fixture drilled covers to assure interchangeability; this is essential when more than one housing of the same size is used. †These boxes and enclosures are listed by Underwriters' Laboratories. Additional boxes are periodically submitted for listing. *Nominal sizes are inside dimensions at opening. Width and length decrease at rate of 3/32" for each two inches of depth.

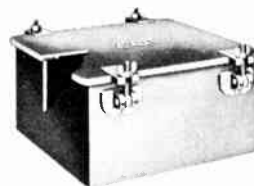
**GENERAL PURPOSE — WEATHERPROOF
RAINTIGHT — DUST-TIGHT**

Class III, NEMA 3, 4 & 5

**UNFLANGED TYPE
FOR SURFACE MOUNTING**



**HINGED COVER TYPE
FOR SURFACE MOUNTING**



**FLANGED TYPE
FOR SURFACE MOUNTING**



**RECESSED COVER TYPE
FOR FLUSH MOUNTING**



Available In 250 Sizes

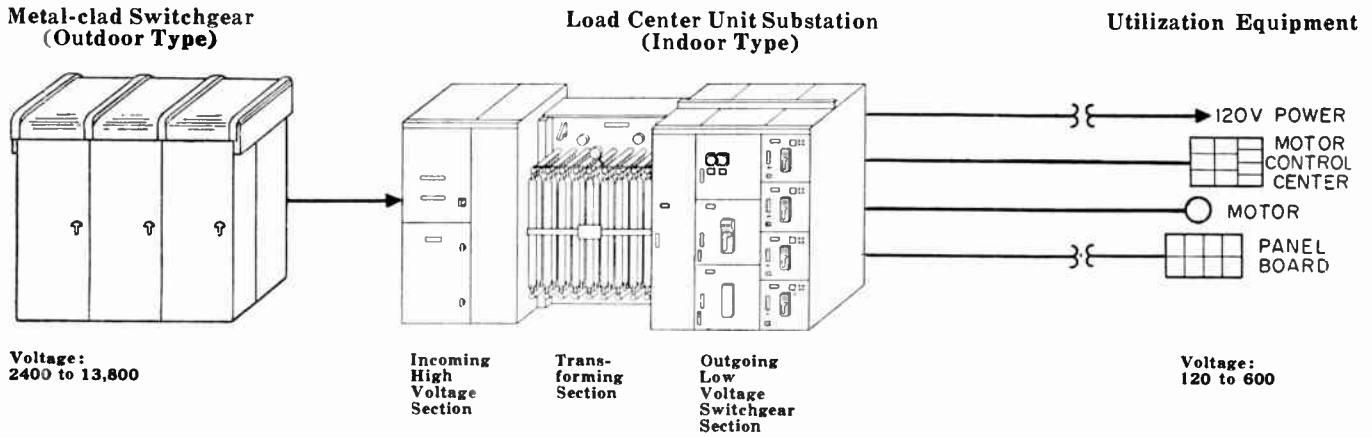
Mounting lugs, padded, drilled and tapped to specifications. Suitable for splices and pull points. For mounting relays, terminal blocks, transformers, instruments, etc.

Contact Graybar for complete information.

Discount Schedule

Less than \$50.00 list.....	15%
\$50.00 to \$199.99.....	20%
\$200.00 list and over.....	30%

LOAD CENTER UNIT SUBSTATIONS



Load center unit substations are the surest way to dependable power distribution in industrial plants and commercial buildings, and for power station auxiliaries and other applications requiring continuity of service.

The function of the equipment is to transform power from the 2,400- to 13,800-volt range down to 600 volts or less, and to provide protection and control for low voltage feeder circuits.

Graybar Electric offers a complete line of load center unit substations, for indoor or outdoor installations. Standard designs free you from unnecessary purchasing and engineering details. Factory-assembled equipment reduces installation time and cost. Mechanical and electrical co-ordination results in greater reliability. Workmanship and materials are protected by one over-all warranty. Expert field engineering is available to further assure proper application, installation and operation.

Compact design means that the load center unit substations can be installed near the load area without wasting valuable production space.

Compartmentation of major components in the low voltage section can confine faults if they should occur and provide greater safety for operating personnel. Stored-energy breakers assure high-speed closing of breaker contacts independent of operating force, preventing unnecessary arcing and wear.

STANDARD PRIMARY VOLTAGE RATINGS
(Delta connected primary voltage ratings)

2400
4160
4800
6900
7200
12000
13200
13800

STANDARD KVA RATINGS AVAILABLE
(at all listed primary voltages shown at left)

SECONDARY VOLTAGES			
208Y/120	240Δ	480Y/277	480Δ
112.5	112.5	112.5	112.5
150	150	150	150
225	225	225	225
300	300	300	300
500	500	500	500
750	750	750	750
1000	1000	1000	1000
		1500	1500
		2000	2000
		2500	2500

The load center unit substation consists of several standard components factory-engineered and co-ordinated for integral connection in the field to form a complete unit. While load center unit substations are handled as single packaged units, it simplifies matters from the engineering point of view to consider the substation as made up of three sections:

- (1) Incoming high voltage section
- (2) Transforming section
- (3) Outgoing low voltage switchgear section

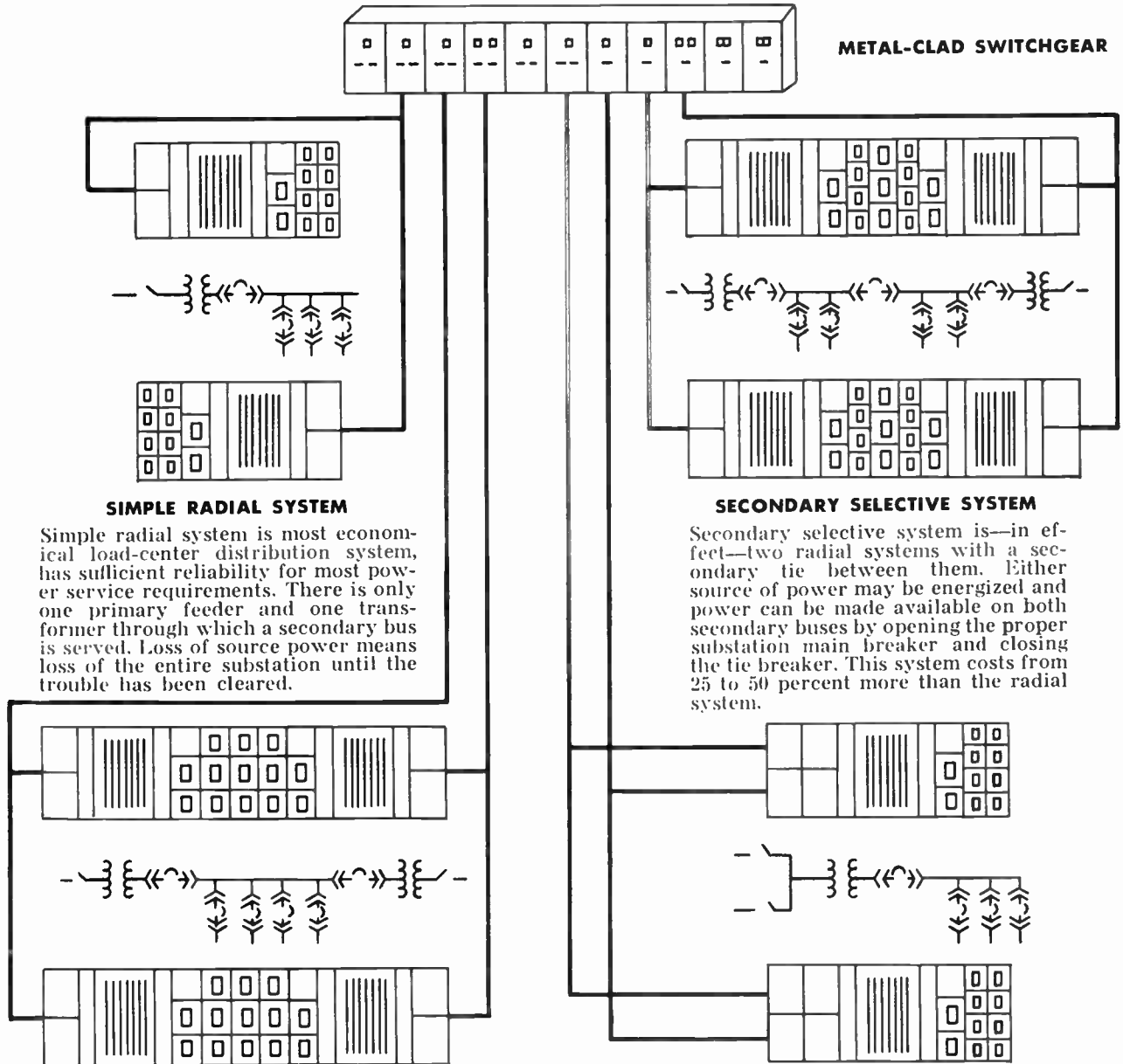
Suppliers:
Federal Pacific Electric Company
General Electric Company
I-T-E Circuit Breaker Company
Square D Company

LOAD CENTER UNIT SUBSTATIONS

Service reliability depends not only on the quality of the equipment and its method of installation, but also on the design of the power system and the proper co-ordination of protective devices. The four basic circuit arrangements shown below have evolved from many arrangements of circuits and equipments which are possible. In each case, power is supplied from metal-clad switchgear at voltages ranging from 2,400 to 13,800 volts, to load center unit sub-

stations, as shown, and distributed at voltages ranging from 120 to 600 volts.

The degree of power continuity desired by the user will determine the system arrangement to be chosen. Combining the best circuit arrangement with co-ordination of protective devices so that faults are cleared selectively, will afford the highest degree of service continuity.



SIMPLE RADIAL SYSTEM

Simple radial system is most economical load-center distribution system, has sufficient reliability for most power service requirements. There is only one primary feeder and one transformer through which a secondary bus is served. Loss of source power means loss of the entire substation until the trouble has been cleared.

SECONDARY SELECTIVE SYSTEM

Secondary selective system is—in effect—two radial systems with a secondary tie between them. Either source of power may be energized and power can be made available on both secondary buses by opening the proper substation main breaker and closing the tie breaker. This system costs from 25 to 50 percent more than the radial system.

SPOT NETWORK SYSTEM

Spot network system parallels the transformer secondaries to provide continuous service for an outage of one primary circuit. Failure of transformer or primary feeder results in automatic removal of the faulty equipment. This system costs from 20 to 50 percent more than the radial system.

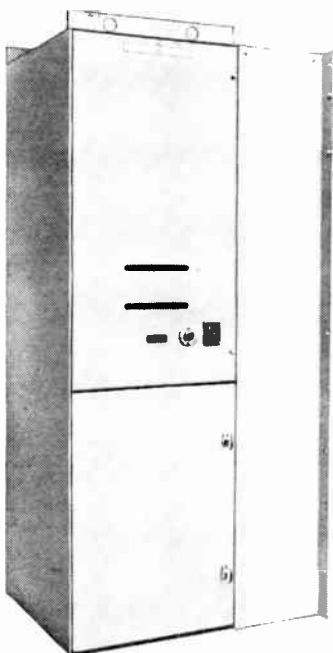
PRIMARY SELECTIVE SYSTEM

Primary selective system provides an alternate supply to the primary of each transformer. If a primary fault occurs, the associated primary breaker opens and interrupts service to half of the load area. The de-energized transformers . . . out of service . . . are manually switched to the other feeder. Cost is 15 to 40 percent more than radial systems.

Suppliers:
 Federal Pacific Electric Company
 General Electric Company
 I-T-E Circuit Breaker Company
 Square D Company

LOAD CENTER UNIT SUBSTATIONS

INCOMING LINE SECTION



Air-interrupter Switch

Air-interrupter switches, such as the one shown above, are three-pole, two-position switches, manually operated by handle from outside the enclosure. Fuses are installed in the same enclosure. Rating data for one type of air-interrupter switch is given in the table below.

Variations of this basic two-position, manually-operated, air-interrupter switch may be obtained, such as selector-type of operation (Line 1/Open/Line 2), double-break type, oil-filled type, and even electrically-operated.

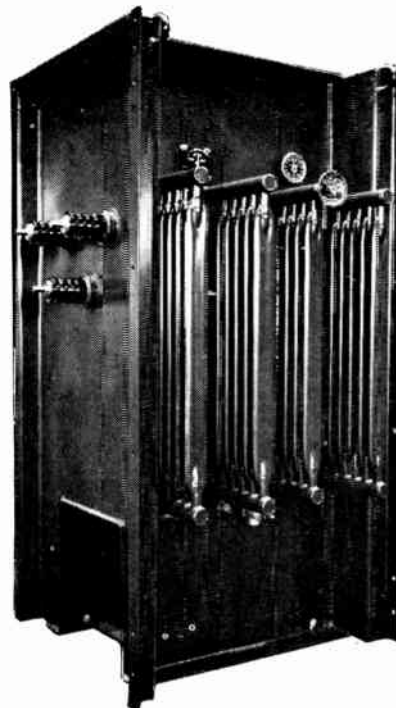
Load center unit substations equipped with these switches are generally fed from metal-clad switchgear, which protects and switches the primary feeder circuit supplying the substation.

Rating Data, Typical Air-interrupter Switch

Voltage Class	Full Load Current Interrupting Rating		Limited Current Interrupting Rating	
	5 kv	15kv	5 kv	15 kv
Maximum design voltage rating	5500 v	14,500v	5500 v	14,500v
Basic impulse level	60 kv	95 kv	60 kv	95 kv
60-cycle test voltage (one minute withstand, dry)	19 kv	36 kv	19 kv	36 kv
Momentary (unfused) RMS asymmetrical	40,000 amp	40,000 amp	40,000 amp	40,000 amp
Momentary (fused) RMS asymmetrical	60,000 amp	50,000 amp	60,000 amp	50,000 amp
Fault close rating, RMS asymmetrical	40,000 amp	40,000 amp	None	None
Interrupting rating	600 amp	600 amp	See Note A	See Note A
Continuous current rating	600 amp	600 amp	600 amp	600 amp

NOTE A: Rating 100 amperes at 13,800 volts.
200 amperes at 7200 volts.
400 amperes at 4800 volts.

TRANSFORMING SECTION



Liquid-type transformer for indoor or outdoor installation

In the transforming section, the incoming (or primary) voltage is reduced to the outgoing (or secondary) voltage and supplied to the feeder breakers for distribution. Four main types of transformers are used in load center unit substations:

- (a) Oil-filled
- (b) Non-flammable liquid-filled (Askarel)
- (c) Open, dry type
- (d) Gas-filled, sealed, dry type

Typical ratings of these transformers are:
KVA—112½ to 2,500
Primary Volts—2,400 to 13,800
Secondary Volts—208Y/120, 240, 480Y/277, 480

The table below presents a comparison of several aspects of the different types, using the characteristics of the oil-filled transformer as a base.

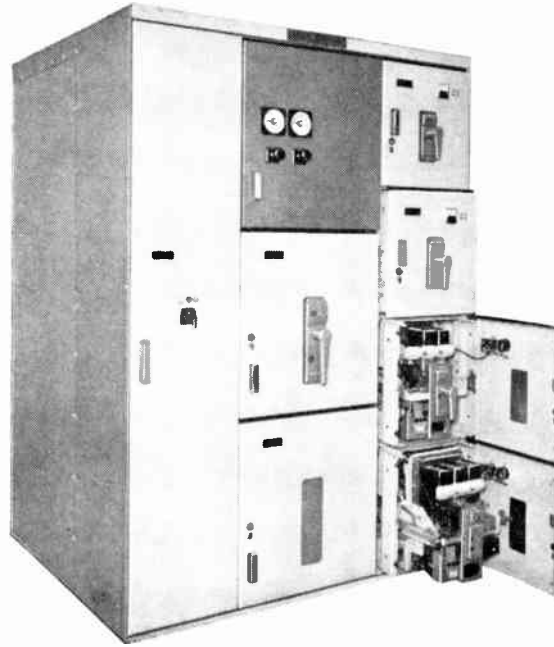
**Transformer Comparison (Oil as Base)
(1000 Kva, 5 Kv Transformers)**

	Oil	Non-flammable Liquid	Open Dry	Gas-filled Sealed Dry
Price (Per)	100	125	110	200
Weight (Lb)	5850	6650	4250	8600
Floor Dimensions (Inches)	49 x 72	49 x 72	31 x 55	73 x 52
Noise Levels (Db)	58	58	64	63
Impulse Levels (Kv)	60	60	25	60

Suppliers:

- Federal Pacific Electric Company
- General Electric Company
- I-T-E Circuit Breaker Company
- Square D Company

**LOAD CENTER UNIT SUBSTATIONS
OUTGOING LOW VOLTAGE SWITCHGEAR SECTION**



Low voltage switchgear with breakers (from top) in connected, test, disconnected and withdrawn positions.

The low voltage section of the equipment controls and protects power flow to different sections of the system. It consists of the necessary buswork and supporting structures, circuit breakers and fuses, and such meters, auxiliary transformers, and switches as may be required. All are mounted in grounded metal enclosures; drawout breakers are generally used, although stationary breakers are sometimes specified.

A transformer main secondary breaker is recommended to protect against faults on the main bus, to provide required transformer secondary protection in accordance with the NEC requirements, to meet the six disconnect requirement of the code where the number of feeder breakers is more than six, to facilitate interlocking, throwover, and relaying schemes, and to back up lower-rated feeder breakers in cascaded systems.

Individual breakers are provided for a variety of applications such as general purpose feeder breakers, motor starting, generator disconnects, and welding machine feeder circuits. They may be manually or electrically operated.

The breaker is chosen on the basis of available short-circuit current which it may be called upon to interrupt, together with the continuous current it will carry, plus the speed and time/current characteristic of the trip. Series trip units are available for each phase, most of them electro-mechanical in operation, but some static. The table to the right gives interrupting and trip ratings of the various common frame size breakers on typical low voltage distribution circuits.

Typical Power Circuit Breaker Application Range

Frame Size Rating	Voltage Rating 60 Cyc. A.C.	Interrupting Rating in Amp. RMS Symmetrical		Overcurrent Trip Device Rating—Amp		Short-time Rating Amp RMS Symmetrical	Short Circuit Limit for 2-step Cascade Operation Amp RMS Symmetrical
		With Inst. Trips	Without Inst. Trips	Min. with Instantaneous Characteristic	Min. with Short-time Characteristic		
225	600	14,000	9,000	15	125	9,000	25,000
		22,000	22,000	40	200	22,000	42,000
		42,000	42,000	200	400	42,000	85,000
		65,000	65,000	2000	2000	65,000	85,000
225	480	22,000	9,000	20	125	9,000	42,000
		30,000	22,000	100	200	22,000	60,000
		50,000	50,000	400	400	50,000	85,000
		65,000	65,000	2000	2000	65,000	85,000
225	240	25,000	9,000	30	125	9,000	50,000
		42,000	22,000	150	200	22,000	85,000
		65,000	50,000	600	400	50,000	100,000
		85,000	65,000	2000	2000	65,000	130,000
4000		130,000	85,000	2000	2000	85,000	130,000

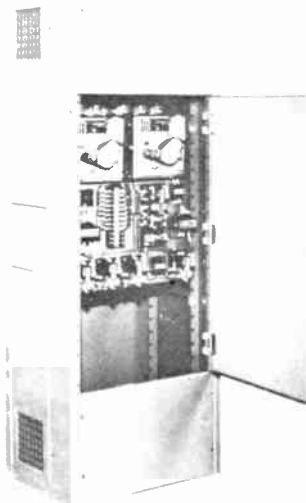
Continuous Current Ratings

Frame Size Rating	Continuous Current Ratings Minimum Limits are Set by Application
225	15, 20, 30, 40, 50, 70, 90, 100, 125, 150, 175, 200, 225
600	40, 50, 70, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 500, 600
1600	200, 225, 250, 275, 300, 350, 400, 500, 600, 800, 1000, 1200, 1600
3000	2000, 2500, 3000
4000	2000, 2500, 3000, 4000

Suppliers:

- Federal Pacific Electric Company
- General Electric Company
- I-T-E Circuit Breaker Company
- Square D Company

I-T-E TELEMANT[®] AUTOMATIC TRANSFER SWITCHES



With dual Telemant[®] motor operators and dual circuit interrupters, I-T-E offers 3 position flexibility (optional) which allows both interrupters to be open at the same time, providing complete safety to operating personnel doing maintenance and inspection work.

AVAILABLE IN ENCLOSURES OR AS SWITCHBOARD COMPONENT

- Available 600 Volt A.C. or 250 Volt D.C. with current ratings from 225 to 1600 amperes.
- Interrupting ratings from 25,000 to 200,000 rms. amperes.
- Enclosures: NEMA, 1A and III.
- Feeder Failure . . . provides load transfer to emergency upon complete feeder failure, or when voltage drops below 70% across lines to which relay is connected. Returns to normal when voltage is restored.
- Full Relay . . . load transfers when any normal line voltage drops below 70%; returns load to normal when line voltages are 90% or more.

Rating Amperes	Open Type		Enclosed Type	
	Cat. No.	List Price	Cat. No.	List Price
2 POLE		1 PHASE, 2 OR 3 WIRE		

FEEDER-FAILURE PROTECTION

225	TM-26-F2	\$1737.	UTM-26-F2	\$1979.
400	TM-26-F4	2276.	UTM-26-F4	2667.
600	TM-26-F6	3221.	UTM-26-F6	3815.
800	TM-26-F8	3873.	UTM-26-F8	4524.
1000	TM-26-F10	4459.	UTM-26-F10	5176.

FULL-RELAY PROTECTION*

225	TM-26-R2	1796.	UTM-26-R2	2038.
400	TM-26-R4	2337.	UTM-26-R4	2728.
600	TM-26-R6	3284.	UTM-26-R6	3878.
800	TM-26-R8	3936.	UTM-26-R8	4590.
1000	TM-26-R10	4524.	UTM-26-R10	5242.

3 POLE		3 PHASE, 3 OR 4 WIRE		
---------------	--	-----------------------------	--	--

FEEDER-FAILURE PROTECTION

225	TM-36-F2	2207.	UTM-36-F2	2541.
400	TM-36-F4	3015.	UTM-36-F4	3569.
600	TM-36-F6	4279.	UTM-36-F6	4996.
800	TM-36-F8	5182.	UTM-36-F8	6004.
1000	TM-36-F10	6083.	UTM-36-F10	6972.

FULL-RELAY PROTECTION*

225	TM-36-R2	2398.	UTM-36-R2	2732.
400	TM-36-R4	3186.	UTM-36-R4	3760.
600	TM-36-R6	4470.	UTM-36-R6	5187.
800	TM-36-R8	5372.	UTM-36-R8	6193.
1000	TM-36-R10	6272.	UTM-36-R10	7161.

* Out at 70% of normal voltage, in at 90%.

The Above Items Are Subject to 50% Discount

MEDIUM-VOLTAGE, METAL-CLAD, CIRCUIT-BREAKER SWITCHGEAR
 1200-3000 AMPERES CONTINUOUS 4.16-13.8 KV AC
 UP TO 50,000 AMPERES INTERRUPTING

- Meets IEEE, NEMA, And ASA Standards
- Compact, Standardized Cubicles
- Stored-Energy Closing
- Safe, Closed-Door, Interlocked Operation
- Separate Instrument And Breaker Compartments

Available With:

Medium-Voltage Air Magnetic Circuit Breakers

DRAW-OUT CONSTRUCTION — OUTDOOR



Standard Or Walk-In Weatherproof Construction

DRAW-OUT CONSTRUCTION — INDOOR



Suppliers:
 Federal Pacific Electric Company
 General Electric Company
 I-T-E Circuit Breaker Company

METAL-ENCLOSED, FUSED-INTERRUPTER SWITCHGEAR**INDOOR CONSTRUCTION**

600-2000 AMPERES CONTINUOUS

4.8-14.4 KILOVOLTS AC

- Rated As Single Unit
- Strong, Resilient Cubicles
- Visible Interrupter Contacts
- Maximum Cable Space
- Stored-Energy Operating Mechanism
- Positive Position Indicator
- Meet NEMA Standards

Available With:

Unfused Interrupter Switches
 Fused Interrupter Switches
 Current-Limiting Fuses
 Boric-Acid Fuses

**OUTDOOR CONSTRUCTION**

600-2000 AMPERES CONTINUOUS

4.8-14.4 KILOVOLTS AC

- Rated As Single Unit
- Strong, Resilient Cubicles
- Visible Interrupter Contacts
- Maximum Cable Space
- Stored-Energy Operating Mechanism
- Positive Position Indicator
- Full Weatherproof Construction
- Meet NEMA Standards

Available With:

Unfused Interrupter Switches
 Fused Interrupter Switches
 Current-Limiting Fuses
 Boric-Acid Fuses

**Suppliers:**

Federal Pacific Electric Company
General Electric Company
I-T-E Circuit Breaker Company
Square D Company

LOW-VOLTAGE, METAL-ENCLOSED POWER SWITCHBOARDS**DRAWOUT CONSTRUCTION — INDOOR**

225-4000 AMPERES CONTINUOUS

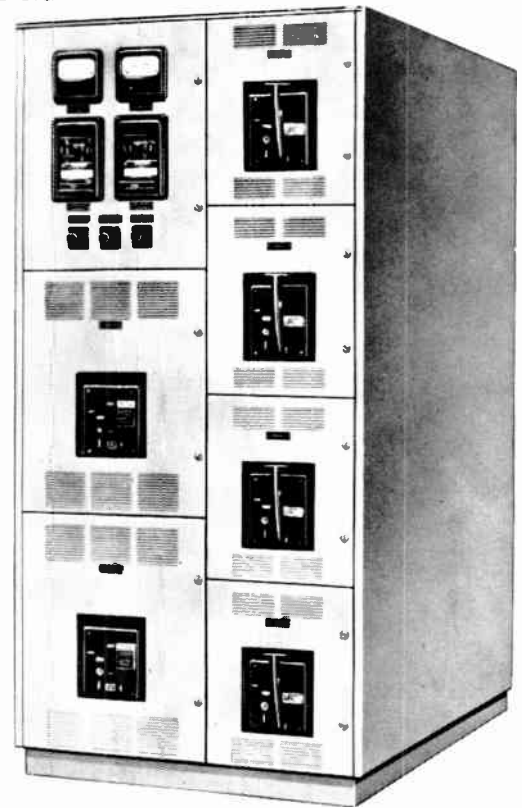
600 VOLTS AC

UP TO 130,000 AMPERES INTERRUPTING

- Meet IEEE, NEMA, And ASA Standards
- Compact Design
- Stored-Energy For Quick-Make, Quick-Breaker Operation
- Safe, Efficient, Closed-Door Drawout
- Manual or Electrical Operation

Available With Drawout Or Pullout:

LV Power Circuit Breakers
 LV Current-Limiting Power Circuit Breakers
 LV Power Service Protectors
 Molded-Case Circuit Breakers
 Current-Limiting, Molded-Case Circuit Breakers

**DRAWOUT CONSTRUCTION — OUTDOOR**

225-4000 AMPERES CONTINUOUS

600 VOLTS AC

UP TO 130,000 AMPERES INTERRUPTING

- Meet IEEE, NEMA And ASA Standards
- Compact Design
- Stored Energy For Quick-Make, Quick-Breaker Operation
- Safe, Efficient, Closed-Door Drawout
- Manual Or Electrical Operation
- Weatherproof, Walk-In Construction

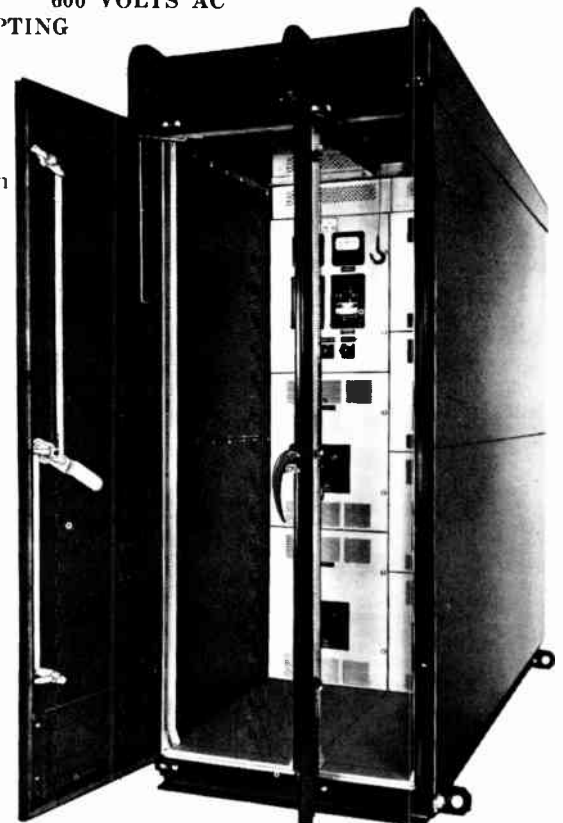
Available With Drawout Or Pullout:

LV Power Circuit Breakers
 LV Current-Limiting Power Circuit Breakers
 LV Power Service Protectors
 Molded-Case Circuit Breakers
 Current-Limiting, Molded-Case Circuit Breakers

Suppliers:

Federal Pacific Electric Company
General Electric Company
I-T-E Circuit Breaker Company
Square D Company

(If Used With Other Square D Equipment)



LOW-VOLTAGE DISTRIBUTION SWITCHBOARDS**FRONT-ACCESSIBLE — STYLE A, INDOOR**

400-2000 AMPERE MAINS

600 VOLTS AC

UP TO 100,000 AMPERES INTERRUPTING

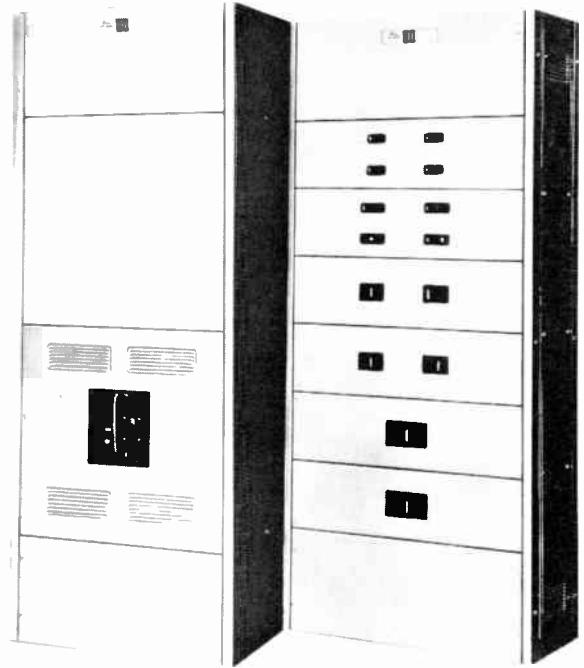
- Meet NEMA Requirements For Class I
- Flexible Design Through Modular Enclosures
- Rigid Construction
- Fully Cross-Bussed
- Front Accessible Only

Main Sections Available Using:

LV Power Circuit Breakers
 LV Power Service Protectors
 Molded-Case Circuit Breakers
 Current-Limiting, Molded-Case Circuit Breakers
 Molded-Case Service Protectors
 Fusible Switches
 Pressure Switches

Distribution Sections Available Using:

Molded-Case Circuit Breakers
 Current-Limiting Molded-Case Circuit Breakers
 Fusible Switches
 Motor-Control Units

**BACK-ACCESSIBLE — STYLE B, INDOOR**

600-4000 AMPERE MAINS

600 VOLTS AC

UP TO 100,000 AMPERES INTERRUPTING

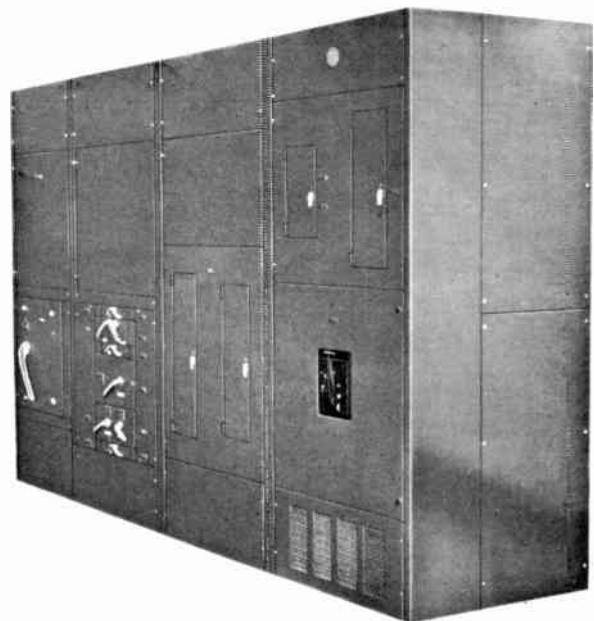
- Meet NEMA Requirements For Class II
 - Front And Rear Accessible
(With Front-Connected Units) Class III
 - Rear Accessible Only
(With Rear-Connected Units)
- Flexible Design Through Modular Enclosures
- Rigid Construction
- Fully Cross-Bussed

Main Sections Available Using:

LV Power Circuit Breakers
 LV Power Service Protectors
 Molded-Case Circuit Breakers
 Current-Limiting, Molded-Case Circuit Breakers
 Molded-Case Service Protectors
 Fusible Switches
 Pressure Switches

Distribution Sections Available Using:

Molded-Case Circuit Breakers
 Current-Limiting, Molded-Case Circuit Breakers
 Fusible Switches
 Motor-Control Units

**Suppliers:**

Federal Pacific Electric Company
General Electric Company
I-T-E Circuit Breaker Company
Square D Company

GENERAL ELECTRIC SWITCHBOARDS NEMA Class 1—Incoming-line Mains and Submains, Individually Mounted

TABLE 1—POWER CIRCUIT BREAKERS
3-Phase, 4-Wire, 600-Volt A-c or Less^④

STATIONARY			Device, Type AK	Rating in Amp	DRAWOUT			
Space and Busing	Electrical Complete ^①	Manual Complete			MANUAL		ELECTRICAL ^①	
					Complete	Space and Busing	Complete	Space and Busing
List Price Each ^②			List Price Each ^②					
AK POWER BREAKERS								
\$490	\$2100	\$1500	15	225	\$1650	\$ 500	\$2330	\$ 520
530	2390	1800	25	600	1960	540	2990	560
780	5230	3950	50	1600	4230	590	5570	920
1060	6950	5430	T-50	2000	NA	NA	NA	NA

AK POWER BREAKERS WITH CURRENT-LIMITING FUSES

Price includes fuses.

\$940	\$3110	\$2510	15	225	\$2690	\$ 980	\$3390	\$1030
980	3400	2790	25	600	3460	1020	3650	1070
NA	NA	NA	U-25 ^③	600	2790	800	3440	820
1380	6890	5600	50	1600	6020	1630	7380	1680
NA	NA	NA	U-50 ^③	1600	5740	1280	7100	1300

- ① Price includes push button to close and trip. If control transformer is required, select and add from Table 20.
- ② Prices include neutral. If not required, deduct, using prices in Table 5.
- ③ The AKU-25 and -50 drawout breakers have fuses mounted integral with breaker. All others have fuses separately mounted on drawout carriage.
- ④ Refer to Graybar for single-phase, 3-wire.

TABLE 2—LB-1 POWER PROTECTORS
3-Phase, 4-Wire, 480-Volt A-c or Less^③
Price includes CLF[®] NEMA Class L fuses.

Rating in Amperes	Without Single-phase Protection or Blow-fuse Indication		With Single-phase Protection and Blow-fuse Indication		Space and Busing
	Manually Operated	Electrically Operated ^①	Manually Operated	Electrically Operated ^①	
800	\$3980	\$5300	\$4370	\$5670	\$ 960
1200	4030	5350	4420	5720	1010
1600	4220	5520	4590	5890	1050
2000	8860	11750	9230	12120	2180

- ① Price includes push button to close and trip. If control transformer is required, select and add from Table 20.
- ② Prices includes neutral. If not required, deduct, using prices in Table 5.
- ③ Refer to Graybar for single-phase, 3-wire.

TABLE 3—HPC SWITCHES AND PLB^① PROTECTORS
480-Volt A-c or Less
Price includes CLF[®] NEMA Class L fuses.

Rating in Amperes	240 Volts, A-c		480 Volts, A-c ^②		Space and Busing	
	3-pole, 4-wire	2-pole, 3-wire	3-pole, 4-wire	2-pole, 3-wire	3-pole, 4-wire	2-pole, 3-wire
800	\$1930	\$1590	\$1930	\$1590	\$ 630	\$ 520
1200	2130	1750	2460	2060	680	570
1600	2560	2080	2890	2380	870	730
2000	2980	2410	3310	2710	1060	890

- ① PLB not available in 2-pole.
- ② Prices include neutral for 2- or 3-pole. If not required, deduct, using prices in Table 5.
- ③ PLB is rated 600 volts, a-c.

TABLE 4—FUSIBLE SWITCHES, Single-throw
Price does not include fuses.

Rating in Amperes	240 Volts, A-c		600 Volts, A-c		Space and Busing	
	3-pole, 4-wire	2-pole, 3-wire	3-pole, 4-wire	2-pole, 3-wire	3-pole, 4-wire	2-pole, 3-wire
400	\$ 780	\$ 590	\$ 880	\$ 700	\$ 470	\$ 370
600	890	780	1040	860	560	440
800 ^②	1780	1420	1780	1420	940	720
1200 ^②	2060	1630	2060	1630	1090	840

- ① Arranged for NEMA Class L current-limiting fuses. All other ratings priced with NEC fuse clips. See Table 19 for rejection fuse clips.
- ② Prices include neutral for 2- and 3-pole. If not required, deduct, using prices in Table 5.

TABLE 5—NEUTRAL BUS DEDUCTION

Rating in Amperes	List Price Per Main or Submain
225	\$22
400	42
600	64
800	84
1000	110
1200	130
1600	170
2000	210

TABLE 6—MAIN LUGS ONLY
Use only when no main protective device is required.

Rating in Amperes	List Price	
	Per 4-wire Service	Per 3-wire Service
225 or less	\$120	\$90
400	170	130
600	230	170
800	280	220
1000	380	300
1200	380	300
1600	480	380
2000	590	460

TABLE 7—MOLDED-CASE CIRCUIT BREAKERS, Bolt-on
600-Volt A-c; 250-Volt D-c

CONVENTIONAL BREAKERS			Rating Range in Amp	HI-BREAK [®] BREAKERS			Space and Busing	
2-pole, 3-wire	3-pole, 4-wire	Breaker Type ^①		Breaker Type	3-pole, 4-wire	2-pole, 3-wire	3-pole, 4-wire	2-pole, 3-wire
List Price Each ^②			List Price Each ^②		List Price Each ^②		List Price Each ^②	
\$700	\$870	TJJ ^①		125-400	.....	.....	\$470	\$370
700	870	TJK4	125-400	THJK4	\$1130	\$920	470	370
950	1210	TJK6	500-600	.....	.....	560	440	
980	1240	TKM8	500-600	THKM8	1400	1150	590	470
1190	1510		700-800		1680	1400	650	520
1540	1830	TKM12	000	THKM12	1990	1700	730	580
2090	2400		1200		2560	2250	910	750
2760	3400	S2000	1600	.....	.....	1030	850	
2830	3500		2000	.....	.....	1130	930	

- ① All trips are interchangeable type except breaker TJJ which has fixed-type trips.
- ② Use price from Table 5 to omit neutral when not required.

TABLE 8—TRI-BREAK* CURRENT-LIMITING MOLDED-CASE CIRCUIT BREAKERS
600-Volt A-c Maximum
Price includes fuses.

Breaker Type	Rating Range in Amperes	3-pole, 4-wire		2-pole, 3-wire	
		Complete	Space and Busing	Complete	Space and Busing
		List Price Each ^①			
TB4	250-400	\$1430	\$510	\$1140	\$410
TB6	500-600	1930	610	1580	490
TB8	700-800	2180	700	2040	570

- ① Conventional molded-case breaker with separately mounted 2000-amp current-limiting fuses.
- ② Use price from Table 5 to omit neutral when not required.
- * Trade-mark of General Electric Co.

TABLE 9—LIMIT-BREAK* MOLDED-CASE CIRCUIT BREAKERS, Drawout Mounted
3-Phase, 4-Wire, 600-Volt A-c Maximum^②
Price includes fuses.

Breaker Type	Rating Range in Amperes	Fuse Size	Complete	Space and Busing ^①
			List Price Each ^①	
TLB4	350-400	1600	\$2140	\$740
TLB6	500-600	1600	2420	780
TLB8	700-800	2000	2890	910
TLB12	1000	2000	3210	1000

- ① Use price from Table 5 to omit neutral when not required.
- ② Refer to Graybar for single-phase, 3-wire.
- ③ Space and busing price also includes fixed carriage portion of unit device.
- * Trade-mark of General Electric Co.

The Above Items Are Subject to 50% Discount
Similar equipment available from Federal Pacific, ITE, Square D.

**GENERAL ELECTRIC SWITCHBOARDS
NEMA Class 1—Branch Feeders and Motor Starters**

TABLE 10—MOLDED-CASE CIRCUIT BREAKERS
600-Volt a-c; 250-Volt d-c①

CONVENTIONAL BREAKER				Rating Range in Amp	HI-BREAK® BREAKER				Space Only⑦	
1-pole	2-pole	3-pole	Breaker Type ②		Breaker Type ②	3-pole	2-pole	3-pole	2-pole	3-pole	2-pole
List Price Each					List Price Each				List Price Each	
\$32③	\$70③	\$100③	TE	15-50	.....	.....	.....	.....	\$46	\$30
44③	88③	120③	TE	70-100	.....	.....	.....	.....	46	30
36④	99④	130④	TEF4	15-50	THEF4	\$180④	\$160④	46	30	30
.....	100④	140④	TEF4	70-100	THEF4	200④	170④	46	30	30
.....	110	140	TEF6	15-50	THEF6	180	160	46	30	30
.....	120	160	TEF6	70-100	THEF6	200	170	46	30	30
.....	240	290	TFJ	70-225	.....	.....	.....	46	46	46
.....	280	340	TFK	70-225	THFK	570	480	46	46	46
.....	440	530	TJJ	125-400	.....	.....	.....	90	90	90
.....	470	570	TJK4	125-400	THJK4	820	690	90	90	90
.....	630	790	TJK6	250-400	.....	.....	.....	90	90	90
.....	670	840	TJK6	500-600	.....	.....	.....	90	90	90
.....	760	930	TKM8	500-600	THKM8	1100	930	180	180	180
.....	900	1180	TKM8	700-800	THKM8	1340	1150	180	180	180
.....	1190	1380	TKM12	700-800	THKM12	1550	1360	180	180	180
.....	1250	1450	TKM12	1000	THKM12	1610	1410	180	180	180
.....	1710	1930	TKM12	1200	THKM12	2100	1870	240	240	240

- ① D-c—2-pole only.
- ② Rated 120 volts a-c, 125 volts d-c.
- ③ Rated 240 volts a-c, 125/250 volts d-c.
- ④ Rated 277 volts a-c, 125 volts d-c.
- ⑤ Rated 480 volts a-c, 250 volts d-c.
- ⑥ Fixed trips on TE, TEF4, THEF4, TEF6, THEF6, TFJ and TJJ; all others have interchangeable trips.
- ⑦ Price for 1-pole space only for conventional breaker is \$16 list.

TABLE 11—FUSIBLE SWITCHES, Single-throw
(Nonfusible switches available at same price.)
Price does not include fuses.

240 Volts				Rating in Amperes	600 Volts				
2-pole Space and Busing	2-pole Switch	3-pole Space and Busing	3-pole Switch		3-pole Switch	3-pole Space and Busing	2-pole Switch	2-pole Space and Busing	
List Price Each, ① ②					List Price Each ①				
\$46	\$130	\$46	.....	30	30	\$210	\$76	\$190	\$76
46	130	46	.....	60	30-60	210	76	190	76
46	140	76	.....	100	30-60-100	260	76	220	76
.....	.....	.....	.....	30	.....	170	76	150	76
.....	.....	.....	.....	60	.....	170	76	150	76
46	96	140	.....	100	.....	170	76	150	76
110	200	240	.....	200	.....	320	110	260	110
150	410	520	.....	400	.....	630	150	520	150
180	580	710	.....	600	.....	760	180	670	180
320	1090	1280	.....	800③	.....	1280	320	1090	320
320	1230	1470	.....	1200③	.....	1470	320	1230	320

- ① Prices include standard NEC fuse clips except for 800- and 1200-amp ratings which are arranged for Class "L" current-limiting fuses. See Table 19 for rejection-type fuse clips for current-limiting fuses.
- ② U/L listing not available.
- ③ Any 240-volt devices to be equipped for Class "J" fuses must be priced as 600-volt devices.

TABLE 12—PMCU UNITS WITH CIRCUIT-BREAKER DISCONNECTS

Main Voltage, 3-phase	NEMA Size		Max Hp		Breaker Type		Breaker Trip Range in Amperes	Full-voltage Nonreversing		Full-voltage Reversing	
	Left Unit	Right Unit	Left Unit	Right Unit	Left Unit	Right Unit		Per Unit	Unit Space ②	Per Unit	Unit Space ②
	List Price, Each ①										
DOUBLE-BRANCH UNITS											
208 or 220	00	00	1½	1½	TQC	TQC	15-50	\$470	\$230	NOT AVAILABLE	
	00	Blank	1½	Blank	TQC	Blank	15-50	360	230		
	0	0	3	3	TQC	TQC	15-50	490	230		
	0	00	3	1½	TQC	TQC	15-50	480	230		
	0	Blank	3	Blank	TQC	Blank	15-50	380	230		
	1	1	7½	7½	TQC	TQC	15-50	530	230		
	1	0	7½	3	TQC	TQC	15-50	520	230		
	1	00	7½	1½	TQC	TQC	15-50	510	230		
	1	Blank	7½	Blank	TQC	Blank	15-50	390	230		

SINGLE-BRANCH UNITS											
Main Voltage, 3-phase	NEMA Size	Max Hp	Breaker Type	Breaker Trip Range in Amperes	Full-voltage Nonreversing		Full-voltage Reversing				
					Per Unit	Unit Space ②	Per Unit	Unit Space ②			
208 or 220	00	1½	TQC	15-50	\$280	\$140	\$510	\$230			
	00	Blank	TE	15-50	300	140	540	230			
	0	3	TQC	15-50	290	140	530	230			
	0	Blank	TE	15-50	310	140	560	230			
	1	7½	TQC	15-50	300	140	550	230			
	1	Blank	TE	15-50	320	140	590	230			
	2	15	TQC	70-100	440	230	730	290			
	2	10	TE	15-50	450	230	770	290			
	2	15	TE	70-100	460	230	780	290			
	2	25	TE	70-100	810	490	1430	800			
440	3	30	TFJ	70-225	1010	490	1630	800			
	4	50	TFJ	70-225	1300	490	2250	800			
	00	2	TEF4	15-50	320	140	560	230			
	0	5	TEF4	15-50	330	140	580	230			
	1	10	TEF4	15-50	340	140	610	230			
	2	20	TEF4	15-50	460	230	780	290			
	2	25	TEF4	70-100	480	230	800	290			
	3	50	TEF4	70-100	830	490	1450	800			
	4	100	TFJ	70-225	1300	490	2250	800			
	00	2	TEF6	15-50	350	140	590	230			
550	0	5	TEF6	15-50	360	140	610	230			
	1	10	TEF6	15-50	370	140	640	230			
	2	20	TEF6	15-50	490	230	810	290			
	2	25	TEF6	70-100	520	230	830	290			
	3	50	TEF6	70-100	870	490	1480	800			
	4	100	TFJ	70-225	1300	490	2250	800			

- NOTE: For two-speed and part-winding starters, refer to Graybar.
- ① Overload relay heaters are included in price; no deduction for omission.
- ② Prices for unit space include blank filler portion of main bus and switchboard enclosure. If PMCU enclosure is required in place of blank filler, double the unit space price.

TABLE 13—ACCESSORIES FOR PMCU UNITS

Description	List Price Each
Push buttons:	
a. "ON-OFF" or "START-STOP".....	\$12
b. "FORWARD-REVERSE-OFF".....	58
Selector Switches:	
a. "ON-OFF".....	12
b. "HAND-OFF-AUTO".....	12
Pilot lights (specify color) ②.....	40
Extra interlock on starter.....	17
Third overload relay for starter size 00, 0, 1, 2, 3 or 4.....	10 ①
Control-power transformer: (Single Sec. Fuse Included).	
a. For Size 00, 0 & 1 Starter.....	46
b. For Size 2 Starter.....	68
c. For Size 3 Starter.....	97
d. For Size 4 Starter.....	118

- ① No price deduction for omission of two overload relays regularly furnished.
- ② Extra interlock required on starter for "OFF" pilot light indication.

The Above Items Are Subject to 50% Discount
Similar equipment available from Federal Pacific, ITE, Square D.
World Radio History

GENERAL ELECTRIC SWITCHBOARDS
NEMA Class I—Instrumentation, Accessories

TABLE 14—INSTRUMENTS AND METERS

DEVICE		Current (C/T) and Potential (P/T) Transformers Required								
Description	Designation	List Price Each ①	1-Ph, 3-W		3-Ph, 3-W Balanced		3-Ph, 3-W Un-balanced		3-Ph, 4-W Δ or Y	
			C/T	P/T	C/T	P/T	C/T	P/T	C/T	P/T
A-C INSTRUMENTS										
Ammeter②	Indicating	\$350	2	0	2	0	3	0	3	0
Ammeter②④	Recording	2140	1	0	1	0	1	0	1	0
Voltmeter②	Indicating	350	0	0	0	0	0	0	0	0
Voltmeter②④	Recording	2140	0	1④	0	1④	0	1④	0	1④
Frequency Meter	Indicating	1010	0	1④	0	1④	0	1④	0	1④
Power Factor Meter	Indicating	850	1	1④	1	0	1	0	1	3④
Synchroscope	Indicating	960	0	2④	0	2④	0	2④	0	2④
Varmeter	Indicating	1060	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦
Wattmeter	Indicating	880	1	1④	2	0	3	0	3	2④
D-C INSTRUMENTS										
Ammeter	Indicating	\$360	Requires Shunt Over 60-Amperes							
Voltmeter	Indicating	390	No External Device Required							
A-C WATTHOUR METERS—STATIONARY CONSTRUCTION										
Two-Element	Integrating	\$560	2	0	2	0	2	0	⑦	⑦
Two-Element②	Recording Demand	3020	2	0	2	0	2	0	⑦	⑦
Three-Element	Integrating	610	⑦	⑦	⑦	⑦	⑦	⑦	3	3④
Three-Element②	Recording Demand	3530	⑦	⑦	⑦	⑦	⑦	⑦	3	3④
A-C WATTHOUR METERS—DRAW-OUT CONSTRUCTION WITH TEST JACK AND PLUG										
Two-Element	Integrating	\$810	⑦	⑦	2	2④	2	2④	⑦	⑦
Two- and One-Half Element	Integrating	1060	⑦	⑦	2	2④	2	2④	3	3④

①List price is for device complete; includes mounting and wiring.
②Requires instrument transfer switch. Order separately from Table 13. For triplex instruments, multiply this price by 3.
③Strip-chart type. Requires separate 120-volt, 60-cycle source for chart motor. Chart speed 3 inches per hour.
④Records only for phase to which meter is connected. Requires one transformer in that phase unless instrument switch is used.
⑤Required only when operating voltage is over 300 volts.
⑥Required only when operating voltage is over 120 volts.
⑦Instrument or meter NOT available or applicable for this service.
⑧Required only when operating voltage is over 480 volts.

A-C WATTHOUR METERS—STATIONARY CONSTRUCTION

Ratings in Amperes or Volts		List Price Each	
		Complete, Installed	Space and Busing Only
CURRENT TRANSFORMERS, SINGLE SECONDARY ONLY			
5- Thru 800-Amperes		\$260	\$160
1000- Thru 1500-Amperes		370	220
2000- Thru 4000-Amperes		440	260
POTENTIAL TRANSFORMERS WITH PRIMARY FUSES			
600-Volts or Less		\$310	\$190
D-C SHUNTS			
75- Thru 400-Amperes		\$54	\$34
500- Thru 800-Amperes		110	66
1000- Thru 1500-Amperes		190	110
2000- Thru 3000-Amperes		330	220
4000-Amperes		650	390

A-C WATTHOUR METERS—DRAW-OUT CONSTRUCTION WITH TEST JACK AND PLUG

Ratings in Amperes or Volts		List Price Each	
		Complete, Installed	Space and Busing Only
Two-Element	Integrating	\$810	⑦ ⑦ 2 2④ 2 2④ ⑦ ⑦
Two- and One-Half Element	Integrating	1060	⑦ ⑦ 2 2④ 2 2④ 3 3④

①List price is for device complete; includes mounting and wiring.
②Requires instrument transfer switch. Order separately from Table 13. For triplex instruments, multiply this price by 3.
③Strip-chart type. Requires separate 120-volt, 60-cycle source for chart motor. Chart speed 3 inches per hour.
④Records only for phase to which meter is connected. Requires one transformer in that phase unless instrument switch is used.
⑤Required only when operating voltage is over 300 volts.
⑥Required only when operating voltage is over 120 volts.
⑦Instrument or meter NOT available or applicable for this service.
⑧Required only when operating voltage is over 480 volts.

TABLE 15—INSTRUMENT TRANSFORMERS AND SHUNTS
For Customer's Instruments and Meters

Ratings in Amperes or Volts	List Price Each	
	Complete, Installed	Space and Busing Only
CURRENT TRANSFORMERS, SINGLE SECONDARY ONLY		
5- Thru 800-Amperes	\$260	\$160
1000- Thru 1500-Amperes	370	220
2000- Thru 4000-Amperes	440	260
POTENTIAL TRANSFORMERS WITH PRIMARY FUSES		
600-Volts or Less	\$310	\$190
D-C SHUNTS		
75- Thru 400-Amperes	\$54	\$34
500- Thru 800-Amperes	110	66
1000- Thru 1500-Amperes	190	110
2000- Thru 3000-Amperes	330	220
4000-Amperes	650	390

TABLE 16—ACCESSORIES FOR INSTRUMENTS AND METERS

Device Description	List Price Addition Each
INSTRUMENT ACCESSORIES	
Ammeter Transfer Switch (2- or 3-Phase)	\$180
Voltmeter Transfer Switch (2- or 3-Phase)	180
Synchronizing Switch (CO to CC)	180
Test Block and Plug-Type PK2 (Maximum 6-Poles)	200
Swing-Arm Bracket. (Maximum 4 Instrument or Instrument Switches—No Devices Included)	350
WATTHOUR METER ACCESSORIES	
Demand Meter Register	\$250
Ratchet Device	80
Contact Device	80
Autotransformer to Read RVA	250

TABLE 17—ACCESSORIES FOR AK POWER BREAKERS AND LB-1 POWER PROTECTORS

Description	List Price Each
Auxiliary Switches	
2—N/O and 2—N/C Contacts (included with electrically operated type)	\$120
6—Additional Contacts—N/O or N/C	120
Undervoltage Device (Self-resetting)	190
Instantaneous	280
Time Delay (required for motor circuits)	
Shunt Trip (included with electrically operated type)	190
Bell Alarm or Lockout Overcurrent Device	190①
Selective Tripping	220①
Position Switch, Electrical Interlocking (Connected-disconnected position)	200①
Kirk Key Interlock (per Lock)	160

①Not applicable to LB-1 power protectors.

TABLE 18—AUXILIARY SWITCHES FOR MOLDED-CASE 2- OR 3-POLE CIRCUIT BREAKERS

Trip Range of Breaker in Amperes	For Breaker Frame Type	No. of AB Switch Contacts	Application	
			For 240V	For 600V
			List Price Addition Each	
15-100	TE④, TEF4④, TEF6④ THEF4, THEF6	1	\$42	\$53
		2	84	100
70-225	TFJ, TFK, THFK	1	...	58
		2	96	...
		4	170	...
125-400	TJJ, TJK4, THJK4	1	56	58
250-600	TJK6	2	96	100
125-800	TKM8, THKM8	3	130	140
700-1200	TKM12, THKM12	4	170	180

④Left-pole accessory mounting not possible on 2-pole breakers.

The Above Items Are Subject to 50% Discount
Similar equipment available from Federal Pacific, ITE, Square D.

GENERAL ELECTRIC SWITCHBOARDS
NEMA Class I—Accessories and Modifications

TABLE 19—ACCESSORIES FOR FUSIBLE SWITCHES ①
600-Volt A-c, 250-Volt D-c, Maximum

Description		List Price Each					
		Device Rating in Amperes					
		30	60	100	200	400	600
Rejection Type Fuse Clips For CLF® Fuses (NEMA Class "H" only)	2-Pole	\$3	\$5	\$8	\$12	\$1	\$1
	3-Pole	4	6	9	14	1	1
Fuse-clip Spacing Arranged For NEMA Class "J" Fuses	2-Pole	10	10	10	10	10	30②
	3-Pole	15	15	15	15	15	45②
Single auxiliary contact ③ for QMR		15	15	15	15	15	15

①800- and 1200-ampere ratings arranged for NEMA Class "L" current-limiting fuses only. U/L listing not available.
②Includes adaptor Cat. No. 792A372G4.
③Price for auxiliary contact is same for 800- and 1200-amp ratings.

TABLE 20—OTHER ACCESSORIES

Description	List Price Addition Each
CHANNEL SILL 4-inch X 1¼-inch per low-voltage vertical section. If channel sills are to extend under high-voltage compartment, transformer and transition sections of unit substation, add per transformer.....	\$10 42
LIFTING MEANS.....	Standard
CONTROL POWER TRANSFORMER—Single-phase (Includes primary fuses) 1 or less, 2- or 3-kva.....	300
LEVELING BOLTS—per vertical section.....	16
NAMEPLATES.....	6
PILOT LIGHTS—Indicating—(specify color).....	30
GROUND DETECTOR LAMPS①..... per set of 3	300
CONTROL SWITCH—(no pilot lights included) a. For power circuit breaker control..... b. Transfer (double-pole, double-throw). Additional poles (single- or double-throw).....	180 260 36
TUMBLER SWITCH—Maximum 60-amp (sp-st) (dp-st) (3-way).....	110
PUSHBUTTON—CR2940 (mom. contact) (heavy-duty or oil-tight).....	68
SELECTOR SWITCH—CR2940 (ON-OFF) or (HAND-OFF-AUTO).....	74
CLOCK—12-inch diam. or less a. Motor-driven, 120-volt, a-c only..... b. Spring-driven, Motor-wound a-c only.....	540 1020
TIME SWITCH—Maximum DPDT, 240-v, a-c, 60-cycle a. Plain dial..... b. With astronomical dial..... c. With astronomical dial and omitting device.....	120 150 180
ALARM, BELL OR HORN—12-inch diameter or less, 125-volt, a-c or d-c.....	330
RHEOSTAT MECHANISM—18-inch diameter or less (space, mounting and connectional only) a. Single-wheel..... b. Double-wheel.....	190 240
MIMIC BUS—Adhesive vinyl strip..... per device	20
SPACE HEATER②—Maximum 250-watt, 240-volt..... If transformer is required price from item 3 above.....	230
ELECTRICALLY OPERATED SWITCHES.....	Refer To Graybar
AUTOMATIC TRANSFER SWITCHES AND BREAKERS.....	Refer To Graybar
2-POLE FUSE BLOCK—30-amp, 250- or 600-volt.....	60
GROUND SENSOR RELAYING For 4-wire grounded system only. (Includes relay, window-type current transformer control-circuit fuse block, and fuses).....	730
NOTE: Add for ground bus, shunt trip and control-power transformer as may be required.	
TOUCH-UP PAINT, ASA-33..... 16 oz. can	5

①Set of 3 lamps with built-in resistors and push-button switch. 600-volt or less. Fuses included as required. If transformer is required, add \$180 List.
②Control and overcurrent protection NOT included.

TABLE 21—SWITCHBOARD STRUCTURE MODIFICATIONS

Description	List Price Addition Each
Blank Auxiliary Section. For pulling in underground service cables. 15" wide 15" deep, 78" or 90" high. No bus.....	\$150
Blank Vertical Section. No bus. Max. 30" w x max. 45" d x 90" h or 78" h..... Max. 45" w x max. 45" d x 90" h or 78" h.....	320 380
Blank space for mounting panelboards or other devices. Section width x Section depth. Add for each 12" or fraction thereof of vertical height.....	64
PANELBOARDS—Mounted in switchboards (Styles Q and NCP only) Space for mounting in switchboard..... And ADD for complete panelboard (including cabinet) (a) Style Q—for switchboards.....	See above Refer to Graybar Refer to Graybar Branch circuit feeder price
Add for dry-type transformer—if required.....	
Add for transformer protective device.....	
Wire Mesh Grille per sq. ft.....	16
Door with catch and lock—per door (a) In end or rear of steel enclosure..... (b) In wire mesh grille..... (c) Over blank space (full height)..... (d) Over group mounted devices..... (e) Front or rear of pull box.....	180 180 110 110 58
Glass Panel in Door or Cover Plate.....	90
PULL BOX—width and depth of switchboard— With screw-on plates—front and rear. Cable supports are not included.	Per vertical section: Class I
(a) 12" thru 30" high: Open bottom type..... With 1" ebony asbestos bottom.....	\$130 280
(b) 31" thru 60" high: Open bottom type..... With 1" ebony asbestos bottom.....	200 330
Bottom plate.....	22
Cable Supports—in pull box or rear of switchboard.....	78

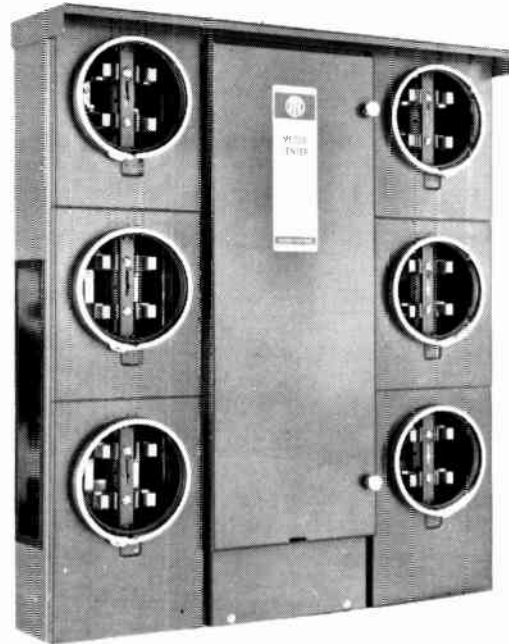
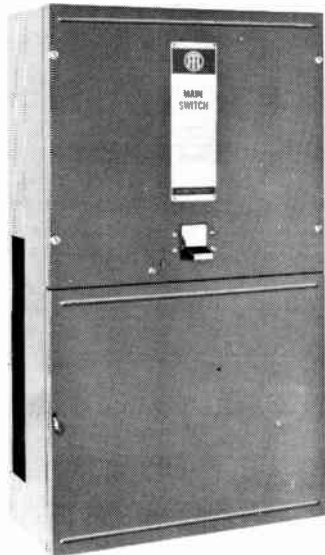
TABLE 22—BUS BAR MODIFICATIONS

Description	List Price Addition Each
BUS BRACING—For 100,000 rms ampere symmetrical—per section.....	\$140
GROUND BUS—per switchboard.....	88
Reduced current density in bus bars (1000 amps per sq. in. std.).....	Refer to Graybar
Special Hardware (Bus bar bolts) (Zinc-plated steel standard) Everdur or Stainless Steel.....	Per Switchboard \$100

The Above Items Are Subject to 50% Discount
Similar equipment available from Federal Pacific, ITE, Square D.

I-T-E METER CENTERS

WALL-MOUNTED



MAIN-DISCONNECT SECTION

Main Rating Amperes	INDOOR ENCLOSURE			RAINTIGHT ENCLOSURE		
	Cat. No.	List Price	Ship. Wgt. Lb.	Cat. No.	List Price	Ship. Wgt. Lb.
1 PHASE, 3 WIRE SN 120/240 VOLT AC						
FUSIBLE MAIN PULLOUT*						
200	MPO-23	\$78.	61	—	—	—
FUSIBLE SWITCH*						
400	MFS-43	204.	110	WMFS-43	\$284.	120
600	MFS-63	414.	160	WMFS-63	532.	170
800	MFS-83	664.	210	WMFS-83	942.	262
CIRCUIT BREAKER						
200	MCB-23	166.	37	WMCB-23	196.	39
400	MCB-43	382.	79	WMCB-43	480.	84
600	MCB-63	582.	135	WMCB-63	744.	140
800	MCB-83	738.	110	WMCB-83	948.	128
1000	MCB-103	1022.	187	WMCB-103	1184.	205
1200	MCB-123	1412.	192	WMCB-123	1566.	210
3 PHASE, 4 WIRE SN 120/208 VOLT AC						
FUSIBLE SWITCH*						
400	MFS-44	256.	120	WMFS-44	362.	130
600	MFS-64	466.	170	WMFS-64	694.	180
800	MFS-84	886.	251	WMFS-84	1532.	262
CIRCUIT BREAKER						
200	MCB-24	226.	38	WMCB-24	274.	40
400	MCB-44	454.	79	WMCB-44	552.	84
600	MCB-64	720.	135	WMCB-64	884.	140
800	MCB-84	1034.	118	WMCB-84	1094.	136
1000	MCB-104	1168.	197	WMCB-104	1330.	215
1200	MCB-124	1558.	202	WMCB-124	1722.	220

* Fuses not included.

The Above Items Are Subject to 50% Discount

METER-BREAKER SECTION

MAIN LUGS ONLY

Mains Rating Amperes	Number 1 Phase Meter Sockets	Cat. No.	List Price	Ship. Wgt. Lb.	Dimensions—Inches		
					Height	Width	Depth
1 PHASE, 3 WIRE SN 120/240 VOLT AC							
200	2	WMB-2	\$68.	37	22	16½	5½
250	3	WMB-3	98.	55	33		
250	4	WMB-4	128.	86	44		

FULLY BUSSED

Mains Rating Amperes	Number 1 Phase Meter Sockets	INDOOR ENCLOSURE			RAINTIGHT ENCLOSURE			
		Cat. No.	List Price	Ship. Wgt. Lb.	Cat. No.	List Price	Ship. Wgt. Lb.	
1 PHASE, 3 WIRE SN 120/240 VOLT AC								
100-AMPERE SOCKET								
600	5	MB-5	\$188.	117	WMB-5	\$198.	140	
	6	MB-6	218.	124	WMB-6	234.	144	
	7	MB-7	238.	158	WMB-7	260.	178	
	8	MB-8	258.	160	WMB-8	284.	180	
	9	MB-9	278.	190	—	—	—	
600	10	MB-10	298.	195	—	—	—	
	150-AMPERE SOCKET							
	4	MB-4-150	546.	89	WMB-4-150	566.	121	
600	5	MB-5-150	654.	177	WMB-5-150	690.	207	
	6	MB-6-150	762.	180	WMB-6-150	788.	210	
3 PHASE, 4 WIRE SN 120/208 VOLT AC								
100-AMPERE SOCKET								
600	5	MB-54	208.	122	WMB-54	216.	140	
	6	MB-64	238.	127	WMB-64	248.	150	
	7	MB-74	258.	158	WMB-74	274.	183	
	8	MB-84	278.	160	WMB-84	294.	186	
	9	MB-94	298.	198	—	—	—	
10	MB-104	318.	205	—	—	—		

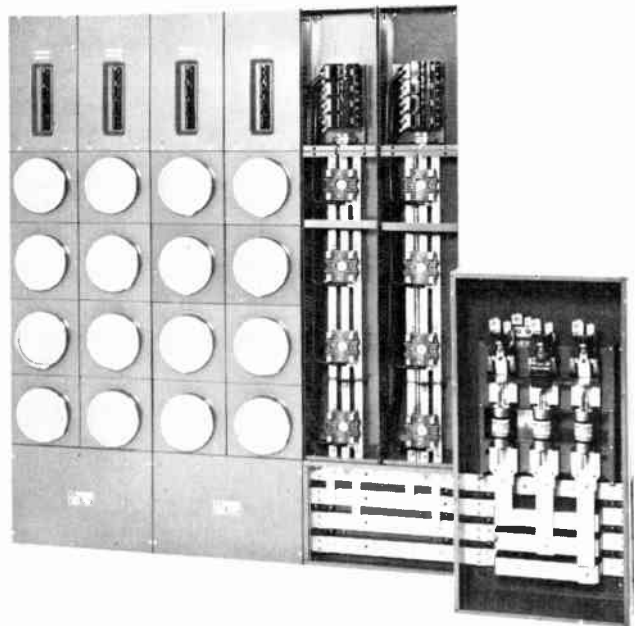
FPE STAB-LOK[®] METERING EQUIPMENT

FACTORY ASSEMBLED INDOOR TYPE

To meet requirements of local utilities and to simplify the contractor's job, Federal Pacific factory-assembles Meter Socket Equipment in its network of local Customer Service Centers and Speed Order Service plants. Each plant is staffed with engineers who know the utility requirements of their area.

The meter socket panel is completely wired and interconnected but may be segmented for convenience in handling.

- Maximum number of meters each vertical stack—
through 100 ampere—4 high (10" wide)
125 and 150 ampere—3 high (12" wide).
- Suitable for wall or floor mounting. See table IV.
- Up to 1200 ampere mains
1 ∅ 3W—120/240V or 3 ∅ 4W—120/208V.
- Code gauge steel—gray enameled finish.
- Sealing rings and covers provided for all meter socket positions.
- Underwriters' Laboratories, Inc. listed.



Pricing Data:

TABLE I—\$36.00 per meter socket list—100 ampere maximum
\$77.00 per meter socket list—125 and 150 amperes

TABLE II—Tenant Main Breaker Rating—2 Pole

Amperes	Catalog Number	List Price
Through 50	—	\$ 6.60
60	2P60	6.60
70	2P70	13.40
100	2P100	18.10
125	2B125	36.00
150	2B150	36.00

TABLE IV—Accessories:

	List Price
Transition gutter.....	\$30.00
Bottom to top bussed connector.....	90.00
Buss duct entrance.....	Refer to factory
End cable tap box.....	40.00
5th jaw, one per socket (when required).....	1.50
Manual by-pass.....	15.00
By-pass jumpers (MSJ100).....	1.50
Special sealing rings.....	Refer to factory
Glass cover (MSGC).....	1.50
*Free-standing floor mounting.....	Refer to factory

How to Price:

Step I — Multiply table I price times quantity of meter sockets required. See table I.

Step II — Multiply tenant main circuit breaker price by quantity required. See table II.

Step III—Select main disconnect price from table III or add end cable tap box from table IV.

Step IV—Itemize and price accessories as required from table IV.

Step V — Total cost of steps 1 through 4 for complete list price.

TABLE III—Main Disconnects

FUSIBLE†			CIRCUIT BREAKER							
Amp	1 ∅ 3W	3 ∅ 4W	Dimensions, Inches*			1 ∅ 3W	3 ∅ 4W	Dimensions, Inches*		
			Height	Width	Depth			Height	Width	Depth
200	\$ 75.	\$105.	—	—	—	\$160.	\$220.	—	—	—
400	198.	230.	40	20	10	370.	440.	40	20	10
600	401.	452.	48	20	10	560.	700.	48	20	10
800	605.	860.	68	38	9	770.	970.	48	20	10
1200	901.	1160.	68	38	9	1510.	1610.	—	—	—

†Fuses not included

*All dimensions approximate

The Above Items Are Subject to 50% Discount

FPE STAB-LOK® METERING EQUIPMENT

PRE-ASSEMBLED, GANGABLE METER SOCKET ASSEMBLIES

400 Ampere—Single Phase—up to 100 Ampere Tenant Mains.

On single phase applications with mains rated 400 amperes or under, costs of meter socket equipment can be considerably reduced by simply bolting together individually packaged, lightweight assemblies. These assemblies are available in single or twin vertical stacks with 2, 3, or 4 sockets. Tenant mains for each stack are centralized, together with neutral, in one location, simplifying wiring.



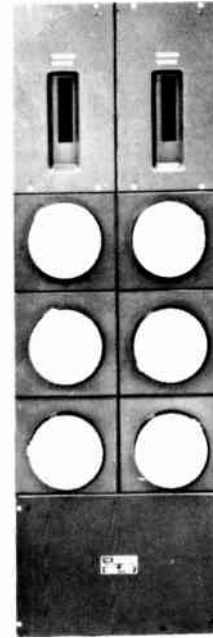
Cat. No. ECTB4



Cat. No. MSNJL400-2



Cat. No. SMS3-4B



Cat. No. TMS44-4B

How to Price: Step I—Add quantity of meter socket assemblies required. See table I.

Step II—Select main disconnect price from table II or add end cable tap box from table IV.

Step III—Multiply tenant main circuit breaker price by quantity required. See table III.

Step IV—Itemize and price accessories as required from table IV.

Step V—Total cost of steps 1 through 4 for complete list price.

TABLE I—Meter Socket Assemblies (Single Phase 3 Wire Only)

Number of Sockets	Catalog Number	List Price	Dimensions, Inches			Approx. Wt. (lbs.)
			Max. Height	Width	Depth	
BUS GUTTER AT BOTTOM						
2	SMS2-4B	\$ 80.00	51	10	4	39
3	SMS3-4B	107.00	61	10	4	47
4	SMS4-4B	125.00	71	10	4	55
4	TMS22-4B	155.00	51	20	4	78
5	TMS23-4B	175.00	61	20	4	86
6	TMS33-4B	207.00	61	20	4	94
7	TMS34-4B	230.00	71	20	4	102
8	TMS44-4B	250.00	71	20	4	110

Number of Sockets	Catalog Number	List Price	Dimensions, Inches			Approx. Wt. (lbs.)
			Max. Height	Width	Depth	
BUS GUTTER AT TOP						
2	SMS2-4T	\$ 80.00	51	10	4	39
3	SMS3-4T	107.00	61	10	4	47
4	SMS4-4T	125.00	71	10	4	55
4	TMS22-4T	155.00	51	20	4	78
5	TMS23-4T	175.00	61	20	4	86
6	TMS33-4T	207.00	61	20	4	94
7	TMS34-4T	230.00	71	20	4	102
8	TMS44-4T	250.00	71	20	4	110

TABLE II—Main Disconnects (Single Phase 3 Wire)

Amp	FUSIBLE SWITCH*		CIRCUIT BREAKER	
	Catalog Number	List Price	Catalog Number	List Price
400	MSQ1422	\$204.	MSNJL400-2	\$382.
Dimensions 20 ⁷ / ₁₆ " W x 40 ³ / ₈ " H x 10 ⁹ / ₁₆ " D. Weight 110 lbs.			20" W x 40" H x 10 ⁹ / ₁₆ " D. Weight 80 lbs.	

*Fuses not included

TABLE III—Tenant Main Breakers 2-Pole Common Trip

Amp	Cat. No.	List Price
15	215	\$ 6.60
20	220	6.60
30	230	6.60
40	240	6.60
50	250	6.60
60	2P60	6.60
70	2P70	13.40
100	2P100	18.10

TABLE IV—Accessories

Description	Catalog Number	List Price
End cable tap box	ECTB4	\$40.00
5th Jaw (kit)	MS5J	1.50
Manual by-pass, factory installed	—	15.00
By-pass Jumpers (kit)	MSJ100	1.50
Glass cover	MSCP	1.50
Bus gutter closure plate and hardware (kit)	MSCP	1.00
Bus connector and ganging hardware (kit)†	MSBC4	5.00
Handle lock-off—50-70 amp 2 pole NA circuit breaker	2LOK	.70
Handle lock-off—100 amp 2 pole NA breaker	CLOK	.70

†One kit required for ganging any two assemblies. Kit included with main disconnect and end cable tap box.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC GROUPED METERING EQUIPMENT

Over 6 Circuits

Type MP

- U/L Listed—All units except 800A and 1200A fusible switches. 800A and 1200A switches are arranged for NEMA Class L fuses not U/L listed.
- Meter Centers—9-inch.
- Service—1-phase, 3-wire, 120/240 volt or 3-phase, 4-wire, 208Y/120 volt.
- Main Fusible Switches—200–1200 amperes.
- Main Circuit Breaker—200A, TQD; 400A, TJJ; 600A, TJK; 800–1200A, TKM.
- Main Lugs—200–1200 amperes.
- Branch Breakers—
15–100A Bolt-in (TQC) standard, Plug-in (TQL, TQAL) optional
125–200A Bolt-in (TQD)
- Meter Sockets—100, 150, and 200A single-phase, 4- and 5-jaw.
- Enclosures—Indoor and Raintight.
- Panel is normally split when shipped, for handling convenience. If a completely interconnected panel is desired, it must be so specified. There is no extra charge.



Over-6-circuits Grouped Metering Equipment

STEP 1	Description	List Price Each												
		200A Main		400A Main		600A Main		800A Main		1200A Main				
		1 φ 3W	3 φ 4W	1 φ 3W	3 φ 4W	1 φ 3W	3 φ 4W	1 φ 3W	3 φ 4W	1 φ 3W	3 φ 4W			
Specify main, rating, service, then price	Main Fusible Switch (Fuses not included)	\$79	\$106 (Pullout)	\$204	\$248	\$414	\$450	\$664	\$886	\$901	\$1092			
	Main Circuit Breaker	165	227	381	453	580	719	793	1009	1563	1689			
	Main Lugs Only	19	21	26	30	36	41	52	62	77	98			
STEP 2	Transition Section (Not required on main-lugs—only panels)	\$41	\$52	\$64	\$77	\$93	\$111	\$134	\$155	\$185	\$216			
Specify branch breakers, then price per position based on C/B rating	Branch Breakers 2-pole, 1-phase, 3-wire (including 4-jaw meter socket)	15–60 Amp Circuit Breaker		70 Amp Circuit Breaker		90, 100 Amp Circuit Breaker		125–150 Amp Circuit Breaker		200 Amp Circuit Breaker				
		\$42		\$49		\$55		\$115		\$146				
STEP 4	Accessories					Hi-Q (10,000A I/C) Branch Breaker								
	Item					List Price Each					Rating 2-pole 1-phase, 3-wire	List Price Each per C/B and 4-jaw Socket Combination		
	5th Jaw—100 Amp.....					\$1.00					15–60 Amp.....	\$48		
	150 Amp.....					2.60					70 Amp.....	56		
	200 Amp.....					4.10					90–100 Amp.....	66		
	Manual By-pass (requires 1 socket space)										Underground Pullbox			
	100 Amp.....					15.50					Rating		List Price Each	
	150 Amp.....					21.00								
	200 Amp.....					26.00								
	Automatic By-pass										200–600 Amp.....	\$31	\$46	
100 Amp.....					10.50					800–1200 Amp.....	72	118		
150 Amp.....					15.50					For other accessories and modifications or special utility requirements, refer to Graybar.				
Blank Space.....					26.00									
Glass Meter Cover Plate.....					1.00									
STEP 5	Indoor.....	No change in price												
Specify enclosure	Raintight.....	Add 10% to total list price												

For dimensions, see next page.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC GROUPED METERING EQUIPMENT
6 Circuits or Less **Type MP**

- Six sockets or less, maximum 100 amperes, 4-jaw
- Main lugs only. Single-phase, 3-wire, 120/240 volts
- Sockets on 9-inch centers
- TQC Bolt-on breakers standard, TQL and TQAL Plug-in breakers optional
- Indoor or outdoor service
- Completely factory assembled
- U/L listed



6-circuits-or-less Grouped Metering Equipment—Raintight construction

GROUPED METERING PANELS (Circuit Breakers not included)

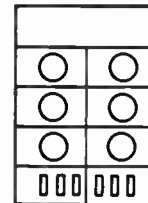
No. of Meter Sockets	Main Rating Amperes	Location of Branch Breakers	Indoor		Raintight		Dimensions in Inches		
			Catalog No.	List Price Each (Less Breakers)	Catalog No.	List Price Each (Less Breakers)	Width	Height	Depth
2	100	Top	MP2-9T	\$70.00	MP2-9TR	\$78.00	9	35½	4½
		Bottom	MP2-9B		MP2-9BR				
3	150	Top	MP3-9T	95.00	MP3-9TR	105.00	9	44½	4½
		Bottom	MP3-9B		MP3-9BR				
4	200	Top	MP4-9T	125.00	MP4-9TR	135.00	9	53½	4½
		Bottom	MP4-9B		MP4-9BR				
5	250	Top	MP5-9T	161.00	MP5-9TR	172.00	18	49¾	4½
		Bottom	MP5-9B		MP5-9BR				
6	300	Top	MP6-9T	190.00	MP6-9TR	210.00	18	49¾	4½
		Bottom	MP6-9B		MP6-9BR				

PANEL PRICES DO NOT INCLUDE BREAKERS.
 For panels with breakers add:

PRICING EXAMPLE:

- 1 6-socket main lugs, branch breakers at bottom, indoor, Cat. No. MP6-9B **\$190.00**
 - 6 100-amp, 2-pole, 120/240-volt conventional breakers at \$18.00 each **\$108.00**
- Total \$298.00**

Rating 2-pole, 120/240 volt	List Price Each	
	Conventional	Hi-Q (10,000A I/C)
15-60 Amp	\$6.60	\$13.50
70 Amp	13.50	21.50
90-100 Amp	18.00	31.00



NOTE: If any modifications are required order and price complete grouped metering panel from preceding page.

DIMENSIONAL DATA (All dimensions listed are in inches.)
Main Compartment

Rating in Amperes	Fusible Switch			Circuit Breaker			Main Lugs		
	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth
200	33 ⅜	14 ¾	4 ½	33 ⅜	8 ½	4	14 ⅝	9	5-3/16
400	51 ⅝	18	6	33 ⅜	11 ¼	6	14 ⅝	13 ½	6
600	51 ⅝	22	6	33 ⅜	11 ¼	6	14 ⅝	13 ½	6
800	60 ⅝	28	7 ⅝	42 ⅝	22	6	23 ⅞	19 ½	6
1200	60 ⅝	28	7 ⅝	42 ⅝	22	6	25 ⅞	23 ½	6

Transition Section

Transition height is same as height of main device. Other dimensions vary with ampere rating.

Amperes	Width	Depth
200-600	8 ½	4
800-1200	11	4 ¾

Vertical Trough (Including horizontal bus gutter)—9-inch Centers

No. of Sockets High	Height	Width	Depth	No. of Sockets High	Height	Width	Depth	No. of Sockets High	Height	Width	Depth
2	42 ⅝	9	4	1	42 ⅝	9	4	1	42 ⅝	9	4
3	51 ⅝	9	4	2	51 ⅝	9	4	2	51 ⅝	9	4
4	60 ⅝	9	4	3	60 ⅝	9	4				

The Above Items Are Subject to 50% Discount

SQUARE D VERTICAL E-Z STACK INDOOR MULTI-METERING EQUIPMENT

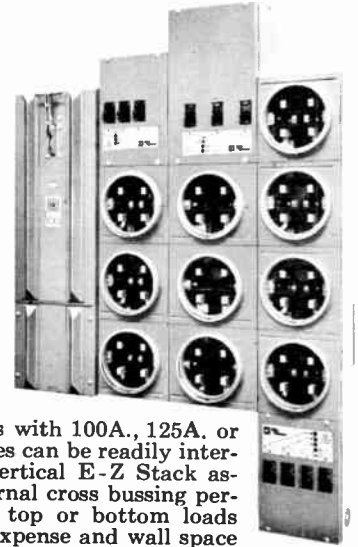
- COMPACT
- VERSATILE
- COMPONENTS PRE-ASSEMBLED

Compact design of Vertical E-Z Stack makes the best use of available wall space. Pre-assembled components are easy to transport on the job-site through narrow doorways, up stairs or in the restricted confines of narrow meter rooms. Far superior to bulky factory-assembled meter centers.

Components interconnect with bus kits (provided). No internal cable is required. Rugged design and rigid bussing provides mechanical strength for services having high fault-current availability.

ORDER INSTRUCTIONS

A Vertical E-Z Stack meter-center may be ordered as (1) components, listed on the following page — or, as (2) meter-center priced from the simplified price method outlined on this page. In either instance, required components will be furnished from the nearest Square D warehouse.



Meter devices with 100A., 125A. or 150A. branches can be readily intermixed in a Vertical E-Z Stack assembly. Internal cross bussing permits random top or bottom loads without the expense and wall space of a transition section.

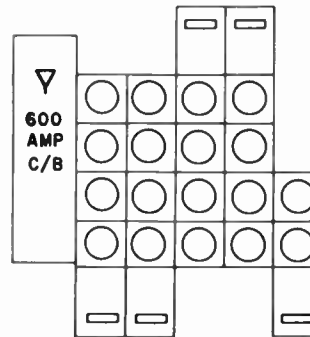
PRICING AND ORDERING INSTRUCTIONS: (SIMPLIFIED PRICE METHOD)

- Step 1 — Select main device.
- Step 2 — Add metered branches.
- Step 3 — Add special features: by-pass, etc.
- Step 4 — For 15A. thru 100A. branches, select and add 2-pole Type QO or Q1 breakers.
Note: Type Q2 2-pole breakers are included in 125A. and 150A. branches.
- Step 5 — Include sketch showing location of incoming service and arrangement of metered branches.

Example:

18 unit 120/240V., 1φ-3W overhead, 600A. main breaker, branches: 16-100A. and 2-60A.

1 — 600A. main breaker		\$ 599.00
18 — 100A. metered branches	\$32.00	576.00
16 — Q12100 circuit breakers	\$18.10	289.60
2 — QO260 circuit breakers	\$ 6.60	13.20
Total		\$1,477.80



As shipped: (per sketch)

- 1 — EZ316CB
- 2 — EZ4B
- 2 — EZ4T
- 1 — EZ2B
- 1 — EZSM316
- 4 — EZMM316
- 16 — Q1 2100
- 2 — QO260

MAIN DEVICES

MAIN	Incoming Service Enters:	Ⓞ200A		Ⓞ400A		Ⓞ600A		▲800A		▲1000A		▲1200A	
		1 φ-3W	3 φ-4W	1 φ-3W	3 φ-4W	1 φ-3W	3 φ-4W	1 φ-3W	3 φ-4W	1 φ-3W	3 φ-4W	1 φ-3W	3 φ-4W
TERMINAL BOX	TOP	\$ 26.	\$ 30.	.....	.....	\$ 45.	\$ 49.	.....	.....	.....	.....	\$ 266.	\$ 336.
	BOTTOM	43.	50.	.....	.....	65.	78.	.....	.....	.....	.....	266.	336.
FUSIBLE SWITCH	TOP	79. †	106. †	\$207.	\$250.	396.	452.	.....	.....	.....	.....	.....	.....
	BOTTOM	124. * †	160. * †	279. *	337. *	479. *	552. *	.....	.....	.....	.....	.....	.....
CIRCUIT BREAKER	TOP or BOTTOM	152.	192.	400.	474.	599.	740.	\$867.	\$1070.	\$1102.	\$1251.	1647.	1839.

▲ Includes 600A cross bus for attaching meter devices to both the left and right sides.
 Ⓞ Includes cross bus for attaching meter devices to either left or right side. Specify on order.
 * Includes EZUG Underground Terminal Box.
 † 200A Pull-Out.

METERED BRANCHES* — NON-CIRCUIT CLOSING —

(Includes Interconnecting bus)

Main Device Rating	Service	100 A. Meter Sockets (Breakers not included)		125/150 A. Meter Sockets (Includes Q2 branch breakers) Meters on 8½" Vertical and 10" Horizontal Centers
		8½" Centers	10" Centers	
200 A.	1 φ-3 W.	\$31.00	\$32.50	.....
	▲3 φ-4 W.	31.50	33.00	
Over 200 A.	1 φ-3 W.	32.00	33.00	\$103.00
	▲3 φ-4 W.	32.50	33.50	104.00

*100 A. is maximum four-high; 125 A. and 150 A. are maximum three-high.
 ▲5th jaw included for 3-wire network meters on 3 phase — 4 wire 120/208 V. AC services.

SPECIAL FEATURES

Modifications and Accessories:	
Manual by-pass . . . per socket	\$ 15.50
Auto circuit-closing . . . per socket	2.50
Keeper-terminal . . . per socket	1.10
Anti-shorting protector . . . per socket . . . . .	.50
Glass socket-cover plate . . . . .	.80
200 A. House Panel with 2-pole breaker: with perch for utility test-switch	175.00
with internal, manual by-pass	186.00

The above items are subject to 50% Discount.

SQUARE D VERTICAL E-Z STACK — INDOOR

MULTI-METERING EQUIPMENT COMPONENTS

BASIC METER-BREAKER DEVICE

(EZMM Connector kits must be ordered separately from table below)

No. of Units *	Main Breaker Location	Vertical Bus Connects to Phases	100 A. Meters On 8 1/2" Centers		100 A. Meters On 10" Centers		125 A. Meters On 10" Centers(Ⓞ)		150 A. Meters On 10" Centers(Ⓞ)	
			Non-Circuit Closing†		Non-Circuit Closing†		Non-Circuit Closing†		Non-Circuit Closing†	
			Cat. No.	Price*	Cat. No.	Price*	Cat. No.	Price▲	Cat. No.	Price▲

1 ϕ-3W — 120/240 V. AC SYSTEMS

2	Top Bottom	A-B	EZ2T EZ2B	\$ 65.	EZ21T EZ21B	\$ 67.	EZ52T-125 EZ52B-125	\$188.	EZ52T-150 EZ52B-150	\$188.
3	Top Bottom	A-B	EZ3T EZ3B	88.	EZ31T EZ31B	92.	EZ53T-125 EZ53B-125	291.	EZ53T-150 EZ53B-150	291.
4	Top Bottom	A-B	EZ4T EZ4B	110.	EZ41T EZ41B	115.				

3 WIRE NETWORK METERS ON 3 ϕ-4W — 120/240 V. AC SYSTEMS

2‡	Top	A-B B-C C-A	EZ2T-A EZ2T-B EZ2T-C	65.	EZ21T-A EZ21T-B EZ21T-C	67.	EZ52TA-125 EZ52TB-125 EZ52TC-125	188.	EZ52TA-150 EZ52TB-150 EZ52TC-150	188.
	Bottom	A-B B-C C-A	EZ2B-A EZ2B-B EZ2B-C		EZ21B-A EZ21B-B EZ21B-C		EZ52BA-125 EZ52BB-125 EZ52BC-125		EZ52BA-150 EZ52BB-150 EZ52BC-150	
3‡	Top	A-B B-C C-A	EZ3T-A EZ3T-B EZ3T-C	88.	EZ31T-A EZ31T-B EZ31T-C	92.	EZ53TA-125 EZ53TB-125 EZ53TC-125	291.	EZ53TA-150 EZ53TB-150 EZ53TC-150	291.
	Bottom	A-B B-C C-A	EZ3B-A EZ3B-B EZ3B-C		EZ31B-A EZ31B-B EZ31B-C		EZ53BA-125 EZ53BB-125 EZ53BC-125		EZ53BA-150 EZ53BB-150 EZ53BC-150	
4‡	Top	A-B B-C C-A	EZ4T-A EZ4T-B EZ4T-C	110.	EZ41T-A EZ41T-B EZ41T-C	115.				
	Bottom	A-B B-C C-A	EZ4B-A EZ4B-B EZ4B-C		EZ41B-A EZ41B-B EZ41B-C					

*Unit consists of 4-jaw socket and two-pole breaker.

†For automatic circuit closing type sockets add suffix "C" to catalog number, i.e., EZ2CT, and add \$2.50 per each socket. For manual circuit closing type add suffix "D" to catalog number, i.e., EZ41DT-A, and add \$15.50 per each socket.

‡For 3 ϕ-4W systems, 5th jaw, Cat. No. SG66 is furnished for each socket. 5th jaw may be field mounted in either left, right, or bottom position.

★100 ampere units have space for two pole plug-in type Q0 or Q1 Breakers 15 thru 100 amperes. Order breakers separately.

▲125 and 150 ampere units have factory installed type Q2 main breakers. Price shown has breakers included.

Ⓞ125 and 150 A. units have sockets on 10" horizontal centers and 8 1/2" vertical centers.

For "Keeper Terminal" add \$1.10 per meter socket.

MAIN CIRCUIT BREAKERS*

(EZSM, EZMSM, SG104 or SG111 Connector kits must be ordered separately from table below)

Ampere Rating	1 ϕ-3W 120/240 V. AC			3 ϕ-4W 120/208 V. AC		
	Catalog Number		Price	Catalog Number		Price
	Top Feed	Bottom Feed		Top Feed	Bottom Feed	
200▲	EZ314CB	EZ314CB	\$ 152.	EZ414CB	EZ414CB	\$ 192.
400	EZ315CB	EZ315UCB	381.	EZ415CB	EZ415UCB	453.
600	EZ316CB	EZ316UCB	580.	EZ416CB	EZ416UCB	719.
800(Ⓞ)	EZ317CB	EZ317UCB	831.	EZ417CB	EZ417UCB	1029.
1000(Ⓞ)	EZ318CB	EZ318UCB	1066.	EZ418CB	EZ418UCB	1210.
1200†	EZ319CB	EZ319UCB	1597.	EZ419CB	EZ419UCB	1761.

*Non-Automatic Circuit Interrupters available in all ratings except 200 A. Change "CB" portion only of catalog number to "NA". Consult factory for pricing.

▲200 A. Main Breakers furnished with a set of flexible connectors which attach directly to either 8 1/2 or 10-inch wide basic devices. Same device used for top or bottom feed.

Ⓞ800 A. and 1000 A. Main Breakers require (1) SG111 connector kit. Attaches basic device to both sides of main device.

†1200 A. Main Breakers accept two, three or four SG104 connector kits.

TERMINAL BOXES

(EZTM, EZUS or SG104 Connector kits must be ordered separately from table below)

Incoming Feeder Location	Ampere Rating	1 ϕ-3W 120/240 V. AC		3 ϕ-4W 120/208 V. AC	
		Catalog Number	Price	Catalog Number	Price
		Overhead.....	200	EZTB314	\$ 14.	EZTB414	$ 16.
	400/600	EZTB316	26.	EZTB416	28.
Underground.....	200	EZUG314	31.	EZUG414	36.
	400/600	EZUG316	46.	EZUG416	67.
Overhead or Underground....	1200*	EZTB319	216.	EZTB419	258.

*1200 A. Terminal Boxes accept up to four horizontal 600 A. bus connector kits.

FUSIBLE* MAIN DISCONNECT SWITCHES

(EZSM or EZMSM Connector kits must be ordered separately from table below)

Ampere Rating	1 ϕ-3W 120/240 V. AC		3 ϕ-4W 120/208 V. AC	
	Catalog Number	Price	Catalog Number	Price
	200★	EZ314P	\$ 67.	EZ414P	$ 92.
400	EZ315	188.	EZ415	229.
600	EZ316	377.	EZ416	431.

*Non-Fused Disconnect Switches available in 400 A. and 600 A. ratings. Add "NF" suffix to catalog number. Price same as Fusible Switch.

★Pull-out Type.

200 AMPERE HOUSE METER

Installed 2 Pcle Type Q2 Rating	*Perch For Utility Test Switch		ΔManual By-Pass	
	Cat. No.	Price	Cat. No.	Price
200 A.	EZ200H	\$176.	EZ200HM	\$186.

*Less wiring between socket and breaker.

ΔIncludes by-pass harness and inter-wiring.

200 ampere house meter unit can be attached to either end of Vertical E-Z Stack assembly. Unit includes a 200 A. four jaw meter socket, factory installed two pole type Q2 Breaker and interconnecting cables (bus connector kit not required). Unit provides sealable space for utility test switch or an installed manual by-pass harness. For field mountable 5th jaw order MSA-2U at \$2.10 list.

The above items are subject to 50% Discount.

SQUARE D VERTICAL E-Z STACK — INDOOR

MULTI-METERING EQUIPMENT COMPONENTS

BUS KITS FOR INTERCONNECTING DEVICES

To Interconnect	Rating	100 A. 8½" WIDE UNITS				100 A./150 A. 10" WIDE UNITS			
		1 φ-3W		3 φ-4W		1 φ-3W		3 φ-4W	
		Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
Basic Device to Basic Device (100 A. or 150 A.)	200 A. 400/600 A.	EZMM314 EZMM316	\$12. 16.	EZMM414 EZMM416	\$13. 18.	EZMM3141 EZMM3161	\$14. 18.	EZMM4141 EZMM4161	\$16. 20.
10" Basic Device to 8½" Basic Device	600 A.	EZMM5316	16.	EZMM5416	18.	EZMM5316	16.	EZMM5416	18.
200 A. Main Switch to Basic Device	200 A.	EZSM314	12.	EZSM414	14.	EZSM3141	14.	EZSM4141	17.
400 A. or 600 A. Main Switch or Main Breaker to Basic Device either Right or Left.	400/600 A.	EZSM316	19.	EZSM416	21.	EZSM3161	21.	EZSM4161	25.
Both Right and Left		EZMSM316	38.	EZMSM416	42.	EZMSM3161	42.	EZMSM4161	50.
800 A. or 1000 A. Main Breaker to Basic Device both Right and Left	400/600 A.	SG111-1	38.	SG111-3	42.	SG111-2	42.	SG111-4	50.
Terminal Box (Overhead or Underground) to Basic Device		200 A. 400/600 A.	EZTM314 EZTM316	12. 19.	EZTM414 EZTM416	14. 21.	EZTM3141 EZTM3161	14. 21.	EZTM4141 EZTM4161	17. 23.
1200 Amp. Terminal Box or Main Breaker to Basic Device	600 A.	SG104-1	25.	SG104-3	39.	SG104-2	28.	SG104-4	43.
Underground Terminal Box to Main Switch or Main Breaker	200 A.	EZUS314	14.	EZUS414	18.	EZUS314	14.	EZUS414	18.
	400 A.	EZUS315	26.	EZUS415	30.	EZUS315	26.	EZUS415	30.
	600 A.	EZUS316	37.	EZUS416	43.	EZUS316	37.	EZUS416	43.

ACCESSORIES

Catalog Number	Description	Price
SG66	5th Clip Field Installable	\$ 1.10
SG97-3	Vertical Barrier Extension 100 Amp. Devices	1.40
SG105	Horizontal Fiber Barrier Separating Breakers and Sockets — 150 Amp. Devices	2.00
SG106	Vertical Barrier Extension Separating Branch Breakers — 150 Amp. Devices	2.00
QQ1CP	Circuit Breaker Closing Plate, One Required per Pole	.30
EZDT	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 8½" wide, Breakers Top 100 A. Basic Device	15.50
EZDB	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 8½" wide, Breakers Bottom 100 A. Basic Device	15.50
EZDT-1	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 10" wide, Breakers Top 100 A. Basic Device	15.50
EZDB-1	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 10" wide, Breakers Bottom 100 A. Basic Device	15.50
EZDT-5	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 150 Amp. Socket, Breakers Top Basic Device	15.50
EZDB-5	Kit to Convert Non-Circuit Closing Meter Socket to External Manual By-Pass — 150 Amp. Socket, Breakers Bottom Basic Device	15.50
EZ1CC	Kit to Convert Non-Circuit Closing Meter Socket to Automatic Circuit Closing	10.50
EZSP	Anti-Shorting Protector — 1 Per Socket	.60
29007	Glass Meter Cover Plate	.80

SQUARE D ENCLOSED BREAKER DEVICES

ENCLOSED BREAKERS

For use as a separate service entrance main breaker or for circuit disconnect and protection on 120/240 Volt AC single phase or 240 Volt AC three phase systems. Breakers factory installed and U/L listed for Service Entrance Equipment. No door.

System	Amp. Rating	General Purpose			Raintight	
		Flush Nos.	Surface Nos.	Price	Nos.	Price
Two Pole With Neutral 240 V. AC	70	Q02100-70F	Q02100-70S	\$ 23.90	Q02100-70RB	\$ 28.90▲
	100	Q02100F	Q02100S	23.90	Q02100RB	28.90▲
	125	Q02125F	Q02125S	53.60	Q02125RB	63.60▲
	150	Q02150F	Q02150S	53.60	Q02150RB	63.60▲
	175	Q02175F	Q02175S	53.60	Q02175RB	63.60▲
	200	Q02200F	Q02200S	53.60	Q02200RB	63.60▲
	225	Q02225F	Q02225S	53.60	Q02225RB	63.60▲
Three Pole With Neutral 240 V. AC	70	Q03100-70F	Q03100-70S	41.70	Q03100-70RB	46.70▲
	100	Q03100F	Q03100S	41.70	Q03100RB	46.70▲
	125	Q03125F	Q03125S	130.40	Q03125RB	140.40▲
	150	Q03150F	Q03150S	130.40	Q03150RB	140.40▲
	175	Q03175F	Q03175S	130.40	Q03175RB	140.40▲
	200	Q03200F	Q03200S	130.40	Q03200RB	140.40▲
	225	Q03225F	Q03225S	130.40	Q03225RB	140.40▲

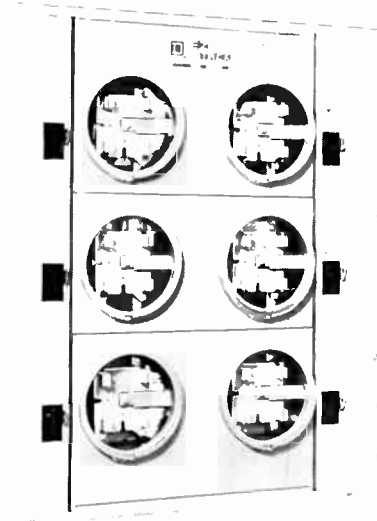
▲Type RB Raintight Device has a bolt-on closing cap installed. Order bolt-on hub separately.

The above items are subject to 50% Discount.

SQUARE D UNITIZED E-Z STACK INDOOR GROUPED METERING EQUIPMENT



UEZ 145



UEZ 166

A completely self-contained meter-center with a unique removable interior assembly. Serves up to six apartments. 4 jaws are mounted on an indestructible base of polyester glass fiber. Provisions at 6 and 9 o'clock for potential 5th jaw. Rigid bussed throughout; no interconnections required. Service connects to top, bottom or side; load conduits connect to top, bottom, sides and back. External mounting provisions.

Interior removes as a complete assembly. Retained by one captive fastener for convenience. Removed interior assembly speeds attaching conduits and pulling wires. Meter jaws and other parts are protected from weather and construction hazards.

Supplied with snap-type seal rings. Lockoff and sealing provisions for each branch main breaker. Code-gauge steel finished blue-gray baked enamel. U/L listed.

1 φ-3 W. — 100 A. METER SOCKETS

No. of Meters	Mains Rating	Max. ● Branch Rating	Catalog Number	Price	Line Lugs Per Phase AL/CU	Dimensions (Inches)		
						W	H	D
3	225 A.	100 A.	UEZ134	\$ 93.	(1) 300MCM	14½	x 33½	x 5
4	225 A.	100 A.	UEZ144	100.	(1) 300MCM	28½	x 24½	x 5
	400 A.	100 A.	UEZ145	113.	(1) 600MCM or (2) 400MCM			
5	225 A.	70 A.	UEZ154	139.	(1) 300MCM	28½	x 33½	x 5
	400 A.	100 A.	UEZ155	144.	(1) 600MCM or (2) 400MCM			
6	400 A.	100 A.	UEZ165	175.	(1) 600MCM or (2) 400MCM	28½	x 33½	x 5
	600 A.	100 A.	UEZ166	185.	(1) 600MCM or (2) 400MCM			

● Plug-in base for two-pole Type Q0 or Q1 breaker. Order breakers separately.

1 φ-3 W. — 125 A./150 A. METER SOCKETS

No. of Meters	Mains Rating	Max. ▲ Branch Rating	Catalog Number	Price	Line Lugs Per Phase AL/CU	Dimensions (Inches)		
						W	H	D
3	400 A.	125 A.	UEZ535-125	\$249.	(1) 600MCM or (2) 400MCM	18½	x 42	x 5
	400 A.	150 A.	UEZ535-150					
4	400 A.	125 A.	UEZ545-125	330.	(1) 600MCM or (2) 400MCM	32½	x 31½	x 6¼
	400 A.	150 A.	UEZ545-150					
5	400 A.	125 A.	UEZ555-125	397.	(1) 600MCM or (2) 400MCM	32½	x 42	x 6¼
	400 A.	150 A.	UEZ555-150					
	600 A.	125 A.	UEZ556-125					
6	600 A.	150 A.	UEZ556-150	417.	(1) 600MCM or (2) 400MCM	32½	x 42	x 6¼
	600 A.	125 A.	UEZ566-125					
6	600 A.	125 A.	UEZ566-125	503.	(1) 600MCM or (2) 400MCM	32½	x 42	x 6¼
	600 A.	150 A.	UEZ566-150					

▲ Includes factory installed two-pole Type Q2 breaker.

ACCESSORIES

Description	Cat. No.	Price	Description	Cat. No.	Price
5th jaw kits include neutral terminal bar, mtg. hardware and instructions:			Automatic circuit-closing (factory installed).....	Add "C" to Cat. No. i.e., UEZ166C	Add \$2.50 per Socket
2 — Unit Devices.....	SG109-2	\$3.70	Keeper terminal (factory installed).....	Order by description	Add \$1.10 per Socket
3 — Unit Devices.....	SG109-3	4.70	Terminal bar for attaching bonding conductor to enclosure: (One bar for 2 and 3 unit devices).....	PK5GT	.80
4 — Unit Devices.....	SG109-4	5.70			
5 — Unit Devices.....	SG109-5	6.70			
6 — Unit Devices.....	SG109-6	7.70			
Glass meter socket cover plate.....	29007	.80			

The above items are subject to 50% Discount.

SQUARE D UNITIZED E-Z STACK OUTDOOR GROUPED METERING EQUIPMENT



UEZ 145RO



UEZ 566RO-150

1 φ-3 W. — 100 A. METER SOCKETS — SURFACE AND SEMI/FLUSH MOUNTING

No. of Meters	Mains Rating	Max. Branch Rating●	Surface Mounting‡			Semi/Flush Mounting			Line Lugs Per Phase AL/CU				
			Catalog Number	Price	Dimensions (Inches)			Catalog Number		Price	Dimensions (Inches)		
					W	H	D				W	H	D
2	200 A.	100 A.	UEZ124-RO	\$ 75.	14½ x 33½ x 5	UEZ124RF	\$ 82.	17¼ x 35¼ x 5½	(1) 300MCM				
3	225 A.	100 A.	UEZ134-RO	98.		UEZ134RF	113.						
4	225 A.	100 A.	UEZ144-RO	124.	28½ x 24½ x 5	UEZ144RF	139.	31¼ x 27 x 6¼	(1) 300MCM				
	400 A.		UEZ145-RO	134.		UEZ145RF	149.		(1) 600MCM or (2) 400MCM				
5	225 A.	70 A.	UEZ154-RO	160.	28½ x 33½ x 5	UEZ154RF	175.	31¼ x 35¼ x 6¼	(1) 300MCM				
	400 A.	100 A.	UEZ155-RO	170.		UEZ155RF	185.						
6	400 A.	100 A.	UEZ165-RO	191.		UEZ165RF	206.		(1) 600MCM or (2) 400MCM				
	600 A.		†UEZ166-RO	206.		UEZ166RF	221.						

1 φ-3 W. — 125 A./150 A. METER SOCKETS — SURFACE AND SEMI/FLUSH MOUNTING

No. of Meters	Mains Rating	Max. Branch Rating▲	Surface Mounting‡			Semi/Flush Mounting			Line Lugs Per Phase AL/CU				
			Catalog Number	Price	Dimensions (Inches)			Catalog Number		Price	Dimensions (Inches)		
					W	H	D				W	H	D
2	225 A.	125 A.	UEZ524RO-125	\$191.	18½ x 42 x 5	UEZ524RF-125	\$201.	21¼ x 44¼ x 6¼	(1) 300MCM				
		150 A.	UEZ524RO-150			UEZ524RF-150							
3	400 A.	125 A.	UEZ535RO-125	259.		UEZ535RF-125	275.						
		150 A.	UEZ535RO-150			UEZ535RF-150							
4	400 A.	125 A.	†UEZ545RO-125	340.	32½ x 31½ x 6¼	UEZ545RF-125	361.	35¼ x 33¼ x 6¼	(1) 600MCM or (2) 400MCM				
		150 A.	†UEZ545RO-150			UEZ545RF-150							
5	400 A.	125 A.	†UEZ555RO-125	412.		32½ x 42 x 6¼	UEZ555RF-125			433.	35¼ x 44¼ x 6¼		
		150 A.	†UEZ555RO-150				UEZ555RF-150						
	600 A.	125 A.	†UEZ556RO-125	433.	UEZ556RF-125		448.						
		150 A.	†UEZ556RO-150		UEZ556RF-150								
6	600 A.	125 A.	†UEZ566RO-125	519.	UEZ566RF-125		536.						
		150 A.	†UEZ566RO-150		UEZ566RF-150								

● Plug-in base for two-pole Type Q0 or Q1 breaker. Order breakers separately.
 ▲ Includes factory installed two-pole Type Q2 breaker.
 ‡ Outdoor — surface mounted devices are furnished with a closing cap and require interchangeable hub.
 † Top endwall has provisions for two bolt-on interchangeable hubs.

INTERCHANGEABLE HUBS

For Top Endwall of Devices with RO Suffix

For		Conduit Size			
		1½"	2"	2½"	3"
UEZ124RO UEZ134RO (Threaded)	Cat. No.	HG	HH	HW	.....
	Price	\$2.60	\$4.40	\$7.80	.....
All Other -RO Devices (Bolt-On)	Cat. No.	.....	HH5	HJ5	HK5
	Price	.....	\$4.40	\$7.80	\$7.80

The above items are subject to 50% Discount.

GENERAL-DUTY SAFETY SWITCHES

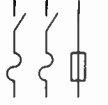
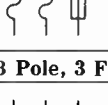
INDOOR — NEMA 1 ENCLOSURE
RAINTIGHT — NEMA 3R ENCLOSURE

240 VOLT

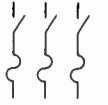
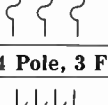
System	Rating Amperes	FEDERAL PACIFIC		GE		I-T-E		SQUARE D		Horsepower Ratings					
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	240 Volt A-C					
										1 Ø 2W		2 Ø 4W		3 Ø 3W	
Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.		

FUSIBLE
INDOOR — NEMA 1 ENCLOSURE

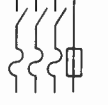
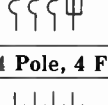
2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN 240 Volt A-C

	30	3322SN	\$ 8.70	TG3221	\$ 8.70	JN-321	\$ 9.00	D221N	\$ 8.70	1½	3	—	—	3	7½
	60	3622	15.50	TG3222	15.50	JN-322	16.00	D222N	15.30	3	10	—	—	7½	15
	100	3122	31.00	TG3223	31.00	JN-323	31.00	D223N	31.00	7½	15	—	—	15	30
	200	3222	67.00	TG3224	67.00	JN-324	67.00	D224N	67.00	15	—	—	—	25	60
	400	3422SN	188.00	TG3225	189.00	JN-325	189.00	D225N	188.00	—	—	—	—	50	100
	600	3722SN	377.00	TG3226	377.00	JN-326	377.00	D226N	377.00	—	—	—	—	75	100

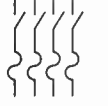

3 Pole, 3 Fuse 240 Volt A-C

	30	3332SN	15.00	TG4321	15.00	JF-321	15.00	D321	14.80	1½	3	—	—	3	7½
	60	3632	23.50	TG4322	24.00	JF-322	24.00	D322	23.60	3	10	—	—	7½	15
	100	3132	43.00	TG4323	43.00	JF-323	43.50	D323	43.00	7½	15	—	—	15	30
	200	3232	92.00	TG4324	92.00	JF-324	92.00	D324	92.00	15	—	—	—	25	60
	400	3432	202.00	TG3325	202.00	JF-325	202.00	D325	202.00	—	—	—	—	50	100
	600	3732	404.00	TG3326	404.00	JF-326	404.00	D326	404.00	—	—	—	—	75	100

4 Pole, 3 Fuse and SN 240 Volt A-C



	30	3332SN	15.00	TG4321	15.00	JN-421	15.00	D321N	14.80	—	—	—	—	3	7½
	60	3632	23.50	TG4322	24.00	JN-422	24.00	D322N	23.60	—	—	—	—	7½	15
	100	3132	43.00	TG4323	43.00	JN-423	43.50	D323N	43.00	—	—	—	—	15	30
	200	3232	92.00	TG4324	92.00	JN-424	92.00	D324N	92.00	—	—	—	—	25	60
	400	3432SN	229.00	TG4325	229.00	JN-425	229.00	D325N	229.00	—	—	—	—	50	100
	600	3732SN	430.00	TG4326	431.00	JN-426	431.00	D326N	431.00	—	—	—	—	75	100

4 Pole, 4 Fuse 240 Volt A-C

	30	3342	22.00	—	—	JF-421	22.00	D421	21.50	—	—	3	10	—	—
	60	3642	40.50	—	—	JF-422	40.50	D422	40.00	—	—	7½	20	—	—
	100	3142	93.00	—	—	JF-423	93.00	D423	93.00	—	—	15	30	—	—
	200	3242	155.00	—	—	JF-424	156.00	D424	156.00	—	—	30	50	—	—
	400	3442	276.00	—	—	JF-425	276.00	—	—	—	—	50	—	—	—
	600	3742	551.00	—	—	JF-426	552.00	—	—	—	—	—	—	—	—

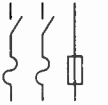
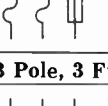
NO FUSE 240 Volt A-C

2-Pole, 240 Volts, A-C (Use 3-pole switch for 2-pole application)
3-Pole, 240 Volts, A-C or 2-Pole With Switched Neutral

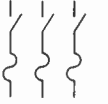

	30	7332	11.50	TGN3321	11.50	JU-321	12.00	DU321	11.50	3	—	—	—	7½	—
	60	7632	17.00	TGN3322	16.00	JU-322	15.50	DU322	15.50	10	—	—	—	15	—
	100	7132	36.00	TGN3323	36.00	JU-323	36.50	DU323	36.00	15	—	—	—	30	—
	200	7232	67.00	TGN3324	67.00	JU-324	67.00	DU324	67.00	—	—	—	—	50	—
	400	7432	162.00	TGN3325	162.00	JU-325	162.00	DU325	162.00	—	—	—	—	50	—
	600	7732	309.00	TGN3326	309.00	JU-326	309.00	DU326	309.00	—	—	—	—	—	—

FUSIBLE
RAINTIGHT — NEMA 3R ENCLOSURE

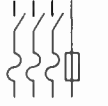

2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN 240 Volt A-C

	30	RH3322SN	14.30	TG3221RH	14.50	NR-321	14.50	D221NRB	14.20	1½	3	—	—	3	7½
	60	RH3622	24.00	TG3222RH	24.00	NR-322	24.00	D222NRB	23.90	3	10	—	—	7½	15
	100	RH3122	36.00	TG3223RH	36.00	NR-323	36.50	D223NRB	36.00	7½	15	—	—	15	30
	200	RH3222	91.00	TG3224RH	91.00	NR-324	91.00	D224NRB	91.00	15	—	—	—	25	60
	400	R3422SN	255.00	TG2225R*	255.00	NR-325	256.00	D225NRB	255.00	—	—	—	—	50	100
	600	—	—	TG2226R*	480.00	NR-326	486.00	D226NRB	485.00	—	—	—	—	75	100

3 Pole, 3 Fuse 240 Volt A-C



	30	RH3332SN	21.50	TG4321RH	22.00	FR-321	21.50	D321RB	21.50	1½	3	—	—	3	7½
	60	RH3632	33.00	TG4322RH	33.00	FR-322	33.00	D322RB	33.00	3	10	—	—	7½	15
	100	RH3132	61.00	TG4323RH	61.00	FR-323	61.00	D323RB	61.00	7½	15	—	—	15	30
	200	RH3232	110.00	TG4324RH	111.00	FR-324	111.00	D324RB	110.00	15	—	—	—	25	60
	400	R3432	261.00	TG3325R	261.00	FR-325	261.00	D325R	261.00	—	—	—	—	50	100
	600	—	—	TG3326R	566.00	FR-326	566.00	D326R	565.00	—	—	—	—	75	100

4 Pole, 3 Fuse and SN 240 Volt A-C

	30	RH3332SN	21.50	TG4321RH	22.00	NR-421	22.00	D321NRB	21.50	—	—	—	—	3	7½
	60	RH3632	33.00	TG4322RH	33.00	NR-422	33.00	D322NRB	33.00	—	—	—	—	7½	15
	100	RH3132	61.00	TG4323RH	61.00	NR-423	61.00	D323NRB	61.00	—	—	—	—	15	30
	200	RH3232	110.00	TG4324RH	111.00	NR-424	111.00	D324NRB	110.00	—	—	—	—	25	60
	400	R3432SN	286.00	TG3325R*	286.00	NR-425	287.00	D325NRB	286.00	—	—	—	—	50	100
	600	—	—	TG3326R*	566.00	NR-426	592.00	D326NRB	591.00	—	—	—	—	75	100

NO FUSE 240 Volt A-C

2-Pole, 240 Volts, A-C (Use 3-pole switch for 2-pole application)
3-Pole, 240 Volts, A-C or 2-Pole With Switched Neutral

	RH7332	21.50	TGN3321RH	22.00	NFR-321	22.00	DU321RB	21.50	3	—	—	—	—	7½	—
	RH7632	33.00	TGN3322RH	33.00	NFR-322	33.00	DU322RB	33.00	10	—	—	—	—	15	—
	RH7132	61.00	TGN3323RH	61.00	NFR-323	61.00	DU323RB	61.00	15	—	—	—	—	30	—
	RH7232	110.00	TGN3324RH	111.00	NFR-324	111.00	DU324RB	110.00	—	—	—	—	—	50	—

The Above Items Are Subject to 50% Discount

HEAVY-DUTY SAFETY SWITCHES

**INDOOR — NEMA 1 ENCLOSURE
RAINTIGHT — NEMA 3R ENCLOSURE**

240 VOLT FUSIBLE

System	Rating Amperes	FEDERAL PACIFIC		GE		I-T-E		SQUARE D		Horsepower Ratings					
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	240 Volt A-C				250V D-C	
										1Ø 2W	2Ø 4W	3Ø 3W		2W	
Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.		

INDOOR — NEMA 1 ENCLOSURE

2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN										240 Volt A-C, 250 Volt D-C						
	30	1322	\$ 18.40	TH3221	\$ 18.50	SN-321	\$ 18.50	H-221-N	\$ 18.40	1½	3	—	—	3	7½	5
	60	1622	34.00	TH3222	34.00	SN-322	34.00	H-222-N	34.00	3	10	—	—	7½	15	10
	100	1122	55.00	TH3223	55.00	SN-323	55.00	H-223-N	55.00	7½	15	—	—	15	30	20
	200	Q1222	97.00	TH3224	97.00	SN-324	97.00	H-224-N	97.00	15	—	—	—	25	60	40
	400	Q1422	200.00	TH3225	227.00	SN-325	227.00	H-225-N	227.00	—	—	—	—	50	100	50
	600	Q1722	398.00	TH3226	425.00	SN-326	422.00	H-226-N	425.00	—	—	—	—	75	100	—
	800	Q1822	615.00	TC72327SN	666.00	SN-327	665.00	89317	666.00	—	—	—	—	100	—	—
	1200	Q1922	851.00	TC72328SN	902.00	SN-328	902.00	89318	902.00	—	—	—	—	—	—	—

3 Pole, 3 Fuse										240 Volt A-C, 250 Volt D-C						
	30	1332	22.50	TH4321	23.00	F-321	23.00	H-321	22.60	1½	3	—	—	3	7½	5
	60	1632	40.00	TH4322	40.00	F-322	40.50	H-322	40.00	3	10	—	—	7½	15	10
	100	1132	63.00	TH4323	63.00	F-323	63.00	H-323	63.00	7½	15	—	—	15	30	20
	200	Q1232	108.00	TH4324	109.00	F-324	109.00	H-324	108.00	15	—	—	—	25	60	40
	400	Q1432	250.00	TH3325	250.00	F-325	251.00	H-325	250.00	—	—	—	—	50	100	50
	600	Q1732	452.00	TH3326	452.00	F-326	453.00	H-326	452.00	—	—	—	—	75	100	—
	800	Q1832	835.00	TC72327	835.00	F-327	836.00	88357	835.00	—	—	—	—	100	—	—
	1200	Q1932	1062.00	TC72328	1062.00	F-328	1062.00	88358	1062.00	—	—	—	—	—	—	—

4 Pole, 3 Fuse and SN										240 Volt A-C						
	30	1332	22.50	TH4321	23.00	SN-421	23.00	H-321-N	22.60	—	—	—	—	3	7½	—
	60	1632	40.00	TH4322	40.00	SN-422	40.50	H-322-N	40.00	—	—	—	—	7½	15	—
	100	1132	63.00	TH4323	63.00	SN-423	63.00	H-323-N	63.00	—	—	—	—	15	30	—
	200	Q1232	108.00	TH4324	109.00	SN-424	109.00	H-324-N	108.00	—	—	—	—	25	60	—
	400	Q1432	250.00	TH4325	279.00	SN-425	279.00	H-325-N	278.00	—	—	—	—	50	100	—
	600	Q1732	452.00	TH4326	478.00	SN-426	478.00	H-326-N	478.00	—	—	—	—	75	100	—
	800	Q1832	835.00	TC72427SN	887.00	SN-427	886.00	89417	887.00	—	—	—	—	100	—	—
	1200	Q1932	1062.00	TC72428SN	1113.00	SN-428	1113.00	89418	1113.00	—	—	—	—	—	—	—

4 Pole, 4 Fuse										240 Volt A-C						
	30	1342	44.00	TC72421	44.50	F-421	44.50	H-421-2	44.00	—	—	—	—	3	10	—
	60	1642	61.00	TC72422	61.00	F-422	61.00	H-422	61.00	—	—	—	—	7½	20	—
	100	1142	97.00	TC72423	97.00	F-423	97.00	H-423	97.00	—	—	—	—	15	30	—
	200	1242	174.00	TC72424	175.00	F-424	175.00	H-424	174.00	—	—	—	—	30	50	—
	400	—	—	TC72425	333.00	F-425	332.00	H-425	332.00	—	—	—	—	50	—	—
	600	—	—	TC72426	598.00	F-426	598.00	H-426	597.00	—	—	—	—	—	—	—

RAINTIGHT — NEMA 3R ENCLOSURE

2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN										240 Volt A-C, 250 Volt D-C						
	30	RH1322	33.00	TH3221RH	33.00	NRH-321	33.00	H221NRB	33.00	1½	3	—	—	3	7½	5
	60	RH1622	63.00	TH3222RH	63.00	NRH-322	63.00	H222NRB	63.00	3	10	—	—	7½	15	10
	100	RH1122	81.00	TH3223RH	82.00	NRH-323	82.00	H223NRB	81.00	7½	15	—	—	15	30	20
	200	RH1222	116.00	TH3224RH	117.00	NRH-324	117.00	H224NRB	116.00	15	—	—	—	25	60	40
	400	RQ1422	258.00	TH2225R*	258.00	NRH-325	285.00	H225NR	284.00	—	—	—	—	50	100	—
	600	RQ1722	505.00	TH2226R*	505.00	NRH-326	533.00	H226NR	533.00	—	—	—	—	75	100	—
	800	RQ1822	886.00	TC72327SNR	938.00	NRH-327	938.00	89317R	937.00	—	—	—	—	100	—	—
	1200	RQ1922	1208.00	TC72328SNR	1288.00	NRH-328	1288.00	89318R	1285.00	—	—	—	—	—	—	—

3 Pole, 3 Fuse										240 Volt A-C						
	30	RH1332	41.00	TH4321RH	41.00	FRH-321	41.50	H321RB	41.00	1½	3	—	—	3	7½	—
	60	RH1632	66.00	TH4322RH	66.00	FRH-322	66.00	H322RB	66.00	3	10	—	—	7½	15	—
	100	RH1132	95.00	TH4323RH	95.00	FRH-323	95.00	H323RB	95.00	7½	15	—	—	15	30	—
	200	RH1232	131.00	TH4324RH	131.00	FRH-324	131.00	H324RB	131.00	15	—	—	—	25	60	—
	400	RQ1432	292.00	TH3325R	292.00	FRH-325	292.00	H325R	291.00	—	—	—	—	50	100	—
	600	RQ1732	607.00	TH3326R	607.00	FRH-326	607.00	H326R	607.00	—	—	—	—	75	100	—
	800	RQ1832	1106.00	TC72327R	1133.00	FRH-327	1133.00	88357R	1133.00	—	—	—	—	100	—	—
	1200	RQ1932	1418.00	TC72328R	1463.00	FRH-328	1463.00	88358R	1463.00	—	—	—	—	—	—	—

4 Pole, 3 Fuse and SN										240 Volt A-C						
	30	RH1332	41.00	TH4321RH	41.00	NRH-421	41.50	H321NRB	41.00	—	—	—	—	3	7½	—
	60	RH1632	66.00	TH4322RH	66.00	NRH-422	66.00	H322NRB	66.00	—	—	—	—	7½	15	—
	100	RH1132	95.00	TH4323RH	95.00	NRH-423	95.00	H323NRB	95.00	—	—	—	—	15	30	—
	200	RH1232	131.00	TH4324RH	131.00	NRH-424	131.00	H324NRB	131.00	—	—	—	—	25	60	—
	400	RQ1432	292.00	TH3325R*	292.00	NRH-425	318.00	H325RN	317.00	—	—	—	—	50	100	—
	600	RQ1732	607.00	TH3326R*	607.00	NRH-426	633.00	H326RN	632.00	—	—	—	—	75	100	—
	800	RQ1832	1106.00	TC72427SNR	1521.00	NRH-427	1215.00	—	—	—	—	—	—	100	—	—
	1200	RQ1932	1418.00	TC72428SNR	1761.00	NRH-428	1751.00	—	—	—	—	—	—	—	—	—

The Above Items Are Subject to 50% Discount

HEAVY-DUTY SAFETY SWITCHES

NEMA 12 ENCLOSURE

240 VOLT FUSIBLE

System	Rating Amperes	FEDERAL PACIFIC		GE		I-T-E		SQUARE D		Horsepower Ratings					
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	240 Volt A-C				250V D-C 2W Std.	
										1 Ø 2W		3 Ø 3W			
										Std.	Max.	Std.	Max.		
2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN*															
	30	—	—	TR72221	\$33.00	F-221H	\$33.00	H221A	\$ 33.00	1½	3	3	7½	5	
	60	—	—	TR72222	44.50	F-222H	44.50	H222A	44.00	3	10	7½	15	10	
	100	—	—	TR72223	67.00	F-223H	67.00	H223A	67.00	7½	15	15	30	20	
	200	—	—	TR72224	112.00	F-224H	112.00	H224A	111.00	15	—	25	60	40	
	400	—	—	TR72225	252.00	F-225H	252.00	H225A	251.00	—	—	50	100	50	
	600	—	—	TR72226	440.00	F-226H	440.00	H226A	440.00	—	—	75	100	—	
3 Pole, 3 Fuse or 4 Pole, 3 Fuse and SN*															
	30	—	—	TR72321	41.50	F-321H	41.50	H321A	41.00	—	—	3	7½	—	
	60	—	—	TR72322	58.00	F-322H	58.00	H322A	58.00	—	—	7½	15	—	
	100	—	—	TR72323	90.00	F-323H	90.00	H323A	90.00	—	—	15	30	—	
	200	—	—	TR72324	134.00	F-324H	134.00	H324A	134.00	—	—	25	60	—	
	400	—	—	TR72325	296.00	F-325H	296.00	H325A	296.00	—	—	50	100	—	
	600	—	—	TR72326	493.00	F-326H	494.00	H326A	493.00	—	—	75	100	—	

600 VOLT

System	Rating Amperes	FEDERAL PACIFIC		GE		I-T-E		SQUARE D		Horsepower Ratings								
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	480 Volt A-C				600 Volt A-C				250V D-C 2W Std.
										2W		3 3W		1 2W		3 3W		
										Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	
FUSIBLE																		
2 Pole, 2 Fuse or 3 Pole, 2 Fuse and SN* 480 Volt A-C, 600 Volt A-C, 250 Volt D-C																		
	30	—	—	TR72261	\$56.00	F-251H	\$56.00	H261A	56.00	3	7½	—	—	3	10	—	—	5
	60	—	—	TR72262	58.00	F-252H	58.00	H262A	58.00	5	20	—	—	10	25	—	—	10
	100	—	—	TR72263	90.00	F-253H	90.00	H263A	90.00	10	30	—	—	15	40	—	—	20
	200	—	—	TR72264	134.00	F-254H	134.00	H264A	134.00	25	50	—	—	30	50	—	—	40
	400	—	—	TR72265	308.00	F-255H	308.00	H265A	308.00	—	—	—	—	—	—	—	—	50
	600	—	—	TR72266	487.00	F-256H	488.00	H266A	487.00	—	—	—	—	—	—	—	—	—
3 Pole, 3 Fuse or 4 Pole, 3 Fuse and SN* 480 Volt A-C, 600 Volt A-C																		
	30	—	—	TR72361	64.00	F-351H	64.00	H361A	64.00	—	—	5	15	—	—	7½	20	—
	60	—	—	TR72362	67.00	F-352H	67.00	H362A	67.00	—	—	15	30	—	—	15	50	—
	100	—	—	TR72363	103.00	F-353H	103.00	H363A	103.00	—	—	25	60	—	—	30	75	—
	200	—	—	TR72364	166.00	F-354H	166.00	H364A	166.00	—	—	50	100	—	—	60	100	—
	400	—	—	TR72365	366.00	F-355H	366.00	H365A	366.00	—	—	100	—	—	—	100	—	—
	600	—	—	—	—	F-356H	618.00	H366A	618.00	—	—	—	—	—	—	—	—	—

*If Solid Neutral is required, order by description. For example: A TR72221 with Solid Neutral is required for a 3 pole, 2 fuse and SN application. For Square D, add "N" to catalog number. For example: H-221NA for 2 fuse and SN applications use price adder as indicated below.

NON-FUSIBLE

2 Pole, No Fuse 480 Volt, A-C, 250 Volt A-C																		
	30	—	—	TR36261	\$37.50	NF-251H	\$37.50	HU261A	\$37.00	7½	—	—	—	10	—	—	—	5
	60	—	—	TR36262	41.50	NF-252H	41.50	HU262A	41.00	20	—	—	—	25	—	—	—	10
	100	—	—	TR36263	66.00	NF-253H	66.00	HU263A	66.00	30	—	—	—	40	—	—	—	20
	200	—	—	TR36264	94.00	NF-254H	94.00	HU264A	94.00	50	—	—	—	50	—	—	—	40
	400	—	—	TR36265	216.00	NF-255H	216.00	HU265A	215.00	—	—	—	—	—	—	—	—	50
	600	—	—	TR36266	364.00	NF-256H	364.00	HU266A	364.00	—	—	—	—	—	—	—	—	—
3 Pole, No Fuse 480 Volt A-C, 600 Volt A-C																		
	30	—	—	TR36361	44.50	NF-351H	44.50	HU361A	44.00	—	—	15	—	—	—	20	—	—
	60	—	—	TR36362	56.00	NF-352H	56.00	HU362A	56.00	—	—	30	—	—	—	50	—	—
	100	—	—	TR36363	82.00	NF-353H	82.00	HU363A	81.00	—	—	50	—	—	—	50	—	—
	200	—	—	TR36364	109.00	NF-354H	109.00	HU364A	108.00	—	—	50	—	—	—	50	—	—
	400	—	—	TR36365	281.00	NF-355H	281.00	HU365A	280.00	—	—	—	—	—	—	—	—	—
	600	—	—	TR36366	450.00	NF-356H	450.00	HU366A	449.00	—	—	—	—	—	—	—	—	—

INSULATED GROUNDABLE NEUTRAL KITS

Amp.	List Price	Lug Wire Size	
		Copper	Alum.
30-60	\$5.20	14-2	12-2
30-100	11.30	14-1/0	12-1/0
200	11.30	6-250 MCM	6-250 MCM
400	26.00	(1) 4-600 MCM or (2) 1/0-3/0	(1) 4-600 MCM or (2) 1/0-250 MCM
600	26.00	(2) 4-600 MCM	(2) 4-600 MCM

The Above Items Are Subject to 50% Discount

HEAVY-DUTY SAFETY SWITCHES

INDOOR — NEMA 1 ENCLOSURE
 RAIN-TIGHT — NEMA 3R ENCLOSURE



600 VOLT

System	Rating Am-peres	FEDERAL PACIFIC		GE		I-T-E		SQUARE D		Horsepower Ratings					
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	480 Volt A-C		600 Volt A-C		250V D-C	
										1 Ø 2W	3 Ø 3W	1 Ø 2W	3 Ø 3W	2W	
Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	Std.			

FUSIBLE

2 Pole, 2 Fuse; 3 Pole, 3 Fuse or 4 Pole, 3 Fuse and SN*

480 Volt A-C, 600 Volt A-C

INDOOR NEMA 1 ENCLOSURE

	30	1336	\$ 40.00	TH3361	\$ 40.00	F-351	\$ 40.50	H361	\$ 40.00	3	7½	5	15	3	10	7½	20	—
	60	1636	47.00	TH3362	47.50	F-352	47.50	H362	47.00	5	20	15	30	10	25	15	50	—
	100	1136	87.00	TH3363	87.00	F-353	87.00	H363	87.00	10	30	25	60	15	40	30	75	—
	200	Q1236	129.00	TH3364	129.00	F-354	129.00	H364	129.00	25	50	50	100	30	50	60	100	—
	400	Q1436	333.00	TH3365	333.00	F-355	333.00	H365	333.00	—	—	100	—	—	—	100	—	—
	600	Q1736	561.00	TH3366	569.00	F-356	562.00	H366	561.00	—	—	—	—	—	—	—	—	—
	800	Q1836	969.00	TC72367	970.00	F-357	970.00	88347	969.00	—	—	—	—	—	—	—	—	—
	1200	Q1936	1275.00	TC72368	1276.00	F-358	1276.00	88348	1275.00	—	—	—	—	—	—	—	—	—

RAINTIGHT—NEMA 3R ENCLOSURE

	30	RH1336	67.00	TH3361RH	67.00	FR-351	67.00	H361RB	67.00	3	7½	5	15	3	10	7½	20	—
	60	RH1636	79.00	TH3362RH	80.00	FR-352	80.00	H362RB	79.00	5	20	15	30	10	25	15	40	—
	100	RH1136	123.00	TH3363RH	123.00	FR-353	123.00	H363RB	123.00	10	30	25	60	15	40	30	75	—
	200	RQ1236	169.00	TH3364RH	169.00	FR-354	169.00	H364RB	169.00	25	50	50	100	30	50	60	100	—
	400	RQ1436	398.00	TH3365R	398.00	FR-355	398.00	H365R	398.00	—	—	100	—	—	—	100	—	—
	600	RQ1736	782.00	TH3366R	782.00	FR-356	782.00	H366R	782.00	—	—	—	—	—	—	—	—	—
	800	RQ1836	1240.00	TC72367R	1349.00	FR-357	1241.00	—	—	—	—	—	—	—	—	—	—	—
	1200	RQ1936	1633.00	TC72368R	1700.00	FR-358	1633.00	—	—	—	—	—	—	—	—	—	—	—

NON-FUSIBLE

2 Pole, No Fuse or 3 Pole, No Fuse

480 Volt A-C, 600 Volt A-C, 250 Volt D-C

INDOOR—NEMA 1 ENCLOSURE

	30	5336	20.50	THN3361	20.50	NF-351	20.50	HU361	20.40	7½	—	15	—	10	—	20	—	5
	60	5636	37.00	THN3362	37.00	NF-352	37.50	HU362	37.00	20	—	30	—	25	—	50	—	10
	100	5136	58.00	THN3363	58.00	NF-353	58.00	HU363	58.00	30	—	50	—	40	—	50	—	20
	200	Q5236	90.00	THN3364	90.00	NF-354	90.00	HU364	90.00	50	—	50	—	50	—	50	—	40
	400	Q5436	202.00	THN3365	202.00	NF-355	202.00	HU365	202.00	—	—	—	—	—	—	—	—	—
	600	Q5736	357.00	THN3366	358.00	NF-356	358.00	HU366	357.00	—	—	—	—	—	—	—	—	—
	800	Q5836	727.00	TC36367	728.00	NF-357	728.00	84347	727.00	—	—	—	—	—	—	—	—	—
	1200	Q5936	976.00	TC36368	978.00	NF-358	977.00	84348	976.00	—	—	—	—	—	—	—	—	—

RAINTIGHT—NEMA 3R ENCLOSURE

	30	RH5336	67.00	THN3361RH	67.00	NFR-351	67.50	HU361RB	67.00	7½	—	15	—	10	—	20	—	5
	60	RH5636	85.00	THN3362RH	85.00	NFR-352	85.00	HU362RB	85.00	20	—	30	—	25	—	50	—	10
	100	RH5136	123.00	THN3363RH	123.00	NFR-353	123.00	HU363RB	123.00	30	—	50	—	40	—	50	—	20
	200	RQ5236	110.00	THN3364RH	111.00	NFR-354	111.00	HU364RB	110.00	50	—	50	—	50	—	50	—	40
	400	RQ5436	276.00	THN3365R	276.00	NFR-355	276.00	HU365R	276.00	—	—	—	—	—	—	—	—	—
	600	RQ5736	553.00	THN3366R	553.00	NFR-356	553.00	HU366R	552.00	—	—	—	—	—	—	—	—	—
	800	RQ5836	998.00	TC36367R	1020.00	NFR-357	999.00	—	—	—	—	—	—	—	—	—	—	—
	1200	RQ5936	1344.00	TC36368R	1473.00	NFR-358	1334.00	—	—	—	—	—	—	—	—	—	—	—

The Above Items Are Subject to 50% Discount

E 100 LINE

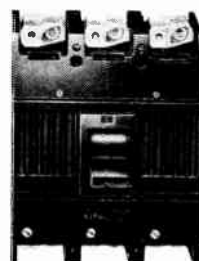
"Breaker Only" is shipped assembled including frame, trip unit, line and load lugs. Hubs must be ordered separately. Hubs and enclosures are shipped separately unless otherwise specified. Neutrals are included with enclosure.



E 100



F 225



J 600



K 1200

F 225, J 600, AND K 1200 LINES

"Breaker Only" is shipped assembled including frame, trip unit, line and load lugs. Neutrals and hubs must be ordered separately. Neutrals, hubs, and enclosures are shipped separately unless otherwise specified.

MOLDED-CASE CIRCUIT-BREAKER SELECTION

Circuit Breaker	Frame Type	Conventional	TE	TEF	TEF4	TEF6	TFJ	TFK	
		Hi-Break®			THEF4	THEF6		THFK	THJK2
		Rating, Amp Range	15-100	15-50	15-100	15-100	70-225	70-225	125-225
Trip Type		Fixed	Fixed	Fixed	Fixed	Interchangeable	Interchangeable		
	Voltage Rating	1-pole	120 A-c, 125 D-c	277 A-c, 125 D-c					
		2-pole	240 A-c; 125/250 D-c		480 A-c, 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c
3-pole		240 A-c		480 A-c	600 A-c	600 A-c	600 A-c	600 A-c	
Applied Voltage			277	240 | 480	240 | 480 | 600	240 | 180 | 600	240 | 480 | 600	240 | 480 | 600	
	NEMA Basis	Conventional Frame	A-c ASYM	7.5	10	20 | 15	20 | 15 | 15	25 | 20 | 15	30 | 25 | 25
			SYM	7.5	10	18 | 14	18 | 14 | 14	22 | 18 | 14	25 | 22 | 22
D-c		1-pole	5	10					
		2-pole	5		10	10	10	10	
Based on NEMA Test Procedure	Hi-Break Frame			THEF4	THEF6		THFK	THJK2	
		A-c ASYM		75 | 30	75 | 30 | 20		50 | 30 | 25	75 | 40 | 30	
	SYM		65 | 25	65 | 25 | 18		42 | 25 | 22	65 | 35 | 25		
	D-c 2-pole			10	10		20	20	
Terminal Lug Sizes For Cu-Al Wire, Wires Per Pole		15-30A, 1-(#14-10)Ⓞ	15-30A, 1-(#14-10)Ⓞ	15-30A, 1-(#14-10)Ⓞ		1-(#6-300 MCM)	1-(#6-300 MCM)	1-(#6-500 MCM) or 2-(#2-250 MCM)	

Circuit Breaker	Frame Type	Conventional	TJJ	TJK4	TJK6	TKM8	TKM12
		Hi-Break®		THJK4		THKM8	THKM12
		Rating, Amp Range	125-400	125-400	250-800	125-800	700-1200
Trip Type		Fixed	Interchangeable	Interchangeable	Interchangeable	Interchangeable	
	Voltage Rating	1-pole					
		2-pole	600 A-c; 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c	600 A-c; 250 D-c
3-pole		600 A-c	600 A-c	600 A-c	600 A-c	600 A-c	
Applied Voltage		240 | 480 | 600	240 | 480 | 600	240 | 480 | 600	240 | 480 | 600	240 | 480 | 600	
	NEMA Basis	Conventional	A-c ASYM	40 | 25 | 25	50 | 35 | 25	50 | 35 | 25	50 | 35 | 25
			SYM	35 | 22 | 22	42 | 30 | 22	42 | 30 | 22	42 | 30 | 22
D-c		1-pole					
		2-pole	10	20	20	20	20
Based on NEMA Test Procedure	Hi-Break Frame			THJK4		THKM8	THKM12
		A-c ASYM		75 | 40 | 30		75 | 40 | 30	75 | 40 | 30
	SYM		65 | 35 | 25		65 | 35 | 25	65 | 35 | 25	
	D-c 2-pole		20		20		
Terminal Lug Sizes For Cu-Al Wire, Wires Per Pole		1-(#6-600 MCM) or 2-(#2-250 MCM)	1-(#6-600 MCM) or 2-(#2-250 MCM)	250-300A 1-(#6-600 MCM) or 2-(#2-250 MCM) 500-800A 2-(250-350 MCM Cu) or 2-(350-500 MCM Al)	125-400A 1-(#1-600 MCM) or 2-(#1-250 MCM)	700-100A 3-(250-500 MCM)	

APPLICABLE U. S. FEDERAL SPECIFICATIONS*

Class	Pole	Volts	
		A-c	D-c
		TE	
2b	1	120	125
2c	2	240	125/250
	3	240	
		TEF	
2a	1	277	125
		TEF4	
2d	2	480	250
	3	480	
		THEF4	
2f	2	480	250
	3	480	
		TEF6	
2d	2	600	250
	3	600	
		THEF6	
2f	2	600	250
	3	600	
		TFJ	
3a	2	600	250
	3	600	
		TFK	
3b	2	600	250
	3	600	
		THFK	
3d	2	600	250
	3	600	
		TJJ	
3b	2	500	250
	3	500	
		250-400A Use TJK4 Frame	
		TJK4	
4b	2	500	250
	3	600	
		THJK4	
4c	2	600	250
	3	600	
		TJK6	
5a	2	600	250
	3	600	
		TKMB	
5a	2	600	250
	3	600	
		THKMB	
5b	2	600	250
	3	600	
		TKM12 (700-800A Only)	
5a	2	600	
	3	600	
		1000-1200A	
		THKM12 (700-800A Only)	
5b	2	600	
	3	600	
		1000-1200A	

Ⓞ Wire terminal. Ⓞ Specifications call for 600-volt breaker. TEF4 or THEF4 (480-volt) breaker may be acceptable on 480-volt systems, otherwise use TEF6 or THEF6 (600-volt) breaker. Ⓞ 2-pole breaker not U/L listed. If required use 3-pole breaker. Ⓞ D-c voltage rating applies to 125- thru 600-amp trip range on.

*WC-375a Interim Amendment 3 Feb. 1965

GENERAL ELECTRIC MOLDED-CASE CIRCUIT BREAKERS

E 100 Line

**Ambient Compensated and Enclosure Compensated
Fixed Trip Types TE, TEF, and THEF HI-BREAK®**

Schematic Diagram	Amp Rating	BREAKER ONLY TE Fixed Trip	
		Cat. No.	List Price Each

**Single-Pole, 2-Wire SN, 120 Volts a-c
125 Volts d-c (10-50 Amps)
120/240 Volts a-c (70-100 Amps)**

	10	TE111010WL	\$11.50
	15	TE111015WL	
	20	TE111020WL	
	30	TE111030WL	
	40	TE111040WL	
	50	TE111050WL	
	70	TE111070WL	23.50
	90	TE111090WL	
	100	TE111100WL	
	50Ⓞ	TE111Y050WLⓄ	11.15
100Ⓞ	TE111Y100WLⓄ		

**Two-Pole, 3-Wire SN, 240 Volts a-c
125/250 Volts d-c**

	10	TE122010WL	\$29.00
	15	TE122015WL	
	20	TE122020WL	
	30	TE122030WL	
	40	TE122040WL	
	50	TE122050WL	
	70	TE122070WL	47.00
	90	TE122090WL	
	100	TE122100WL	
	100Ⓞ	TE122Y100WLⓄ	29.00

Three-Pole, 4-Wire SN, 240 Volts a-c

	10	TE132010WL	\$42.00
	15	TE132015WL	
	20	TE132020WL	
	30	TE132030WL	
	40	TE132040WL	
	50	TE132050WL	
	70	TE132070WL	62.00
	90	TE132090WL	
	100	TE132100WL	
	100Ⓞ	TE132Y100WLⓄ	42.00

MAGNETIC ONLY

Normal Amp Rating	Trip Unit Range in Amp		Cat. No.	List Price
	Min	Max		

Type TEF—2-Pole, 600 Volts a-c

3	8	20	TEF126M1003WL	\$62.00
5	15	35	TEF126M1005WL	
10	28	68	TEF126M1010WL	
25	65	165	TEF126M1205WL	
50	156	360	TEF126M1050WL	
50	250	570	TEF126M2050WL	
100	480	1000	TEF126M1100WL	78.00
100	800	1520	TEF126M2100WL	

Type TEF—3-Pole, 600 Volts a-c

3	8	20	TEF136M1003WL	\$79.00
5	15	35	TEF136M1005WL	
10	28	68	TEF136M1010WL	
25	65	165	TEF136M1025WL	
50	156	360	TEF136M1050WL	
50	250	570	TEF136M2050WL	
100	480	1000	TEF136M1100WL	96.00
100	800	1520	TEF136M2100WL	

Ⓞ Nonautomatic interrupter.
Ⓟ Ambient compensated.

Schematic Diagram	Amp Rating	BREAKER ONLY TEF Fixed Trip	
		Cat. No.	List Price Each

**Single-Pole, 2-Wire SN,
277 Volts a-c, 125 Volts d-c**

	10	TEF113G10WL	\$14.50
	15	TEF113015WL	
	20	TEF113020WL	
	30	TEF113030WL	
	40	TEF113040WL	
	50	TEF113050WL	
	70	TEF113070WL	27.00
	90	TEF113090WL	
	100	TEF113100WL	
	100	TEF113Y100WL	14.50

**Two-Pole, 3-Wire SN,
480 Volts a-c, 250 Volts d-c**

	10	TEF124010WL	\$53.00
	15	TEF124015WL	
	20	TEF124020WL	
	30	TEF124030WL	
	40	TEF124040WL	
	50	TEF124050WL	
	70	TEF124070WL	67.00
	90	TEF124090WL	
	100	TEF124100WL	
	100Ⓞ	TEF124Y100WLⓄ	48.00

**Two-Pole, 3-Wire SN,
600 Volts a-c, 250 Volts d-c**

	15	TEF126015WL	\$62.00
	20	TEF126020WL	
	30	TEF126030WL	
	40	TEF126040WL	
	50	TEF126050WL	
	70	TEF126070WL	78.00
	90	TEF126090WL	
	100	TEF126100WL	
	100Ⓞ	TEF126Y100WLⓄ	62.00

Three-Pole, 4-Wire SN, 480 Volts a-c

	10	TEF134010WL	\$67.00
	15	TEF134015WL	
	20	TEF134020WL	
	30	TEF134030WL	
	40	TEF134040WL	
	50	TEF134050WL	
	70	TEF134070WL	81.00
	90	TEF134090WL	
	100	TEF134100WL	
	100Ⓞ	TEF134Y100WLⓄ	62.00

**Three-Pole, 4-wire SN, 600 Volts a-c
SNⓅ**

	15	TEF136015WL	\$79.00
	20	TEF136020WL	
	30	TEF136030WL	
	40	TEF136040WL	
	50	TEF136050WL	
	70	TEF136070WL	96.00
	90	TEF136090WL	
	100	TEF136100WL	
	100Ⓞ	TEF136Y100WLⓄ	79.00

LUG WIRE SIZES

Amp Rating	Lug Wire Sizes
15-30 (CU-AL)	No. 14-10 term screw
40-100 (CU-AL)	No. 14-1/0 Lug

Schematic Diagram	Amp Rating	BREAKER ONLY THEF HI-BREAK Fixed Trip	
		Cat. No.	List Price Each

**Two-Pole, 3-Wire SN,
480 Volts a-c, 250 Volts d-c**

	15	THEF124015WL	\$101.00
	20	THEF124020WL	
	30	THEF124030WL	
	40	THEF124040WL	
	50	THEF124050WL	
	70	THEF124070WL	116.00
	90	THEF124090WL	
	100	THEF124100WL	

**Two-Pole, 3-Wire SN,
600 Volts a-c, 250 Volts d-c**

	15	THEF126015WL	\$101.00
	20	THEF126020WL	
	30	THEF126030WL	
	40	THEF126040WL	
	50	THEF126050WL	
	70	THEF126070WL	116.00
	90	THEF126090WL	
	100	THEF126100WL	

**Three-Pole, 4-Wire SN,
600 Volts a-c**

	15	THEF136015WL	\$118.00
	20	THEF136030WL	
	30	THEF136030WL	
	40	THEF136040WL	
	50	THEF136050WL	
	70	THEF136070WL	134.00
	90	THEF136090WL	
	100	THEF136100WL	

**INSULATED GROUNDBLE
NEUTRALS ONLY**

Order neutrals separately from table below for NEMA 4, 5.

Enclosure Type	Max Amp Rating	Cat. No.	List Price
NEMA 4, 5 Cast Iron	50	Factory Installed	\$7.50
	100	Factory Installed	11.50
NEMA 4, 5 Stainless Steel	50	Factory Installed	7.50
	100	Factory Installed	11.50

ENCLOSURES ONLY

Description	Cat. No.	List Price
NEMA 1, Handle-thru-cover, Surface or Flush	TE100F or S	\$13.50
NEMA 1A, with KO's (D) NEMA 12, without KO's (J)	TE100D or J	21.50
NEMA 3R, RaintightⓄ with Max. 2 1/2" Hubs, Add R4	TE100R4	36.00
NEMA 4, 5—Water- and Dust-tight Cast Iron (C)	Available Only with Factory-installed Breaker	
NEMA 4, 5—Water- and Dust-tight Stainless Steel (CS)	TE100CS	216.00

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC MOLDED-CASE CIRCUIT BREAKERS

F 225 Line

Fixed Trip Type TFJ, and Interchangeable Trip Types TFK and THFK HI-BREAK®

Ambient Compensated

Schematic Diagram	Amp Rating	BREAKER ONLY TFJ Fixed Trip	
		Cat. No.	List Price Each

2-Pole, 600 Volts a-c, 250 Volts d-c

	70	TFJ226070WL	\$180.00
	90	TFJ226090WL	
	100	TFJ226100WL	
	125	TFJ226125WL	
	150	TFJ226150WL	
	175	TFJ226175WL	
	200	TFJ226200WL	
	225	TFJ226225WL	
225①	TFJ226Y225WL①	\$144.00	

3-Pole, 600 Volts a-c

	70	TFJ236070WL	\$225.00
	90	TFJ236090WL	
	100	TFJ236100WL	
	125	TFJ236125WL	
	150	TFJ236150WL	
	175	TFJ236175WL	
	200	TFJ236200WL	
	225	TFJ236225WL	
225①	TFJ236Y225WL①	\$180.00	

Schematic Diagram	Amp Rating	BREAKER ONLY TFK Interchangeable Trip	
		Cat. No.	List Price Each

2-Pole, 600 Volts a-c, 250 Volts d-c

	70	TFK226070WL	\$213.00
	90	TFK226090WL	
	100	TFK226100WL	
	125	TFK226125WL	
	150	TFK226150WL	
	175	TFK226175WL	
	200	TFK226200WL	
	225	TFK226225WL	
225①	TFK226Y225WL①	\$170.00	

3-Pole, 600 Volts a-c

	70	TFK236070WL	\$266.00
	90	TFK236090WL	
	100	TFK236100WL	
	125	TFK236125WL	
	150	TFK236150WL	
	175	TFK236175WL	
	200	TFK236200WL	
	225	TFK236225WL	
225①	TFK236Y225WL①	\$210.00	

Schematic Diagram	Amp Rating	BREAKER ONLY THFK and THJK-2 HI-BREAK Interchangeable Trip	
		Cat. No.	List Price Each

2-Pole, 600 Volts a-c, 250 Volts d-c

	70	THFK226070WL	\$421.00
	90	THFK226090WL	
	100	THFK226100WL	
	125	THFK226125WL	
	150	THFK226150WL	
	175	THFK226175WL	
	200	THFK226200WL	
	225	THFK226225WL	
125	THJK22B125WL	\$421.00	
	150		THJK22B150WL
	175		THJK22B175WL
	200		THJK22B200WL
	225		THJK22B225WL

3-Pole, 600 Volts a-c

	70	THFK236070WL	\$509.00
	90	THFK236090WL	
	100	THFK236100WL	
	125	THFK236125WL	
	150	THFK236150WL	
	175	THFK236175WL	
	200	THFK236200WL	
	225	THFK236225WL	
125	THJK23B125WL	\$509.00	
	150		THJK23B150WL
	175		THJK23B175WL
	200		THJK23B200WL
	225		THJK23B225WL

MAGNETIC ONLY ②

Normal Amp Rating	Trip Unit Range in Amps.		COMPLETE BREAKER		Trip Unit Only Cat. No.	List Price
	Min.	Max.	Cat. No.	List Price		
Type TFJ Fixed Trip 2-Pole 600 Volts a-c						
225	600 1000	1400 2250	TFJ226M1225WL TFJ226M2225WL	\$180.00	.....	.....
Type TFJ Fixed Trip 3-Pole 600 Volts a-c						
225	600 1000	1400 2250	TFJ236M1225WL TFJ236M2225WL	\$225.00	.....	.....
Type TFK Interchangeable Trip 2-Pole 600 Volts a-c						
225	600 1000	1400 2250	TFK226M1225WL TFK226M2225WL	\$213.00	TFK226TM1225 TFK226TM2225	\$56.00
Type TFK Interchangeable Trip 3-Pole 600 Volts a-c						
225	600 1000	1400 2250	TFK236M1225WL TFK236M2225WL	\$260.00	TFK236TM1225 TFK236TM2225	\$70.00

INSULATED GROUNDABLE NEUTRALS ONLY

Enclosure Type	Max Amp Rating	Cat. No.	List Price	Lug Wire Size
NEMA 1, 1A, 12, 3R	225	TN1 225	\$15.50	(2)#-250 MCM
NEMA 4, 5	225	Factory Installed	15.50	

ENCLOSURES ONLY (Neutrals not included)

Description	Cat. No.	List Price
NEMA 1, Handle-thru-cover, surface or flush	TF225S or F	\$16.50
NEMA 1—with KO's (D) NEMA 12 without KO's (J)	TF225D or J	36.00
NEMA 3R—Raintight Blank End Wall (R) for Hubs (R4)	TF225R or R4	55.00
NEMA 4, 5—Water-, Dust-tight Cast Iron (C)	TF225C	195.00
NEMA 4, 5 Stainless Steel (CS)	TF225CS	330.00

① Nonautomatic interrupter.

② All F225 line enclosures accept all F225 magnetic breakers only.

TRIP UNIT ONLY For Use with TFK Breakers

2-Pole	
Catalog Number	List Price
TFK226T070 TFK226T090 TFK226T100 TFK226T125 TFK226T150 TFK226T175 TFK226T200 TFK226T225	\$56.00
Shipping Wt	2½ lbs
3-Pole	
TFK236T070 TFK236T090 TFK236T100 TFK236T125 TFK236T150 TFK236T175 TFK236T200 TFK236T225	\$70.00

FRAME ONLY For Type TFK and THFK Breakers

Description	Poles	Cat. No.	List Price Each
Conventional and Magnetic Only	2	TFK226F000	\$147.00
	3	TFK236F000	181.00
Hi-Break	2	THFK226F000	365.00
	3	THFK236F000	424.00

LUG WIRE SIZES For Use with Type TFK and THFK Breakers

2- and 3-Pole—Order Two Per Pole		
Cat. No.	List Price	Wire Size
TCAL 24 (CU-AL)	\$2.50	One #6-300 MCM

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC MOLDED-CASE CIRCUIT BREAKERS

J 600 Line

Ambient Compensated

Fixed Trip Type TJJ, and Interchangeable Trip Types TJK and THJK HI-BREAK®

Schematic Diagram	Amp Rating	BREAKER ONLY			
		TJJ Fixed Trip		THJK HI-BREAK Interchangeable Trip①	
		Cat. No.	List Price Each	Cat. No.	List Price Each
	125	TJJ426125WL		THJK426125WL	
	150	TJJ426150WL		THJK426150WL	
	175	TJJ426175WL		THJK426175WL	
	200	TJJ426200WL		THJK426200WL	
	225	TJJ426225WL	\$330.00	THJK426225WL	\$554.00
	250	TJJ426250WL		THJK426250WL	
	300	TJJ426300WL		THJK426300WL	
	350	TJJ426350WL		THJK426350WL	
	400	TJJ426400WL		THJK426400WL	
	400②	TJJ426Y400WL②	\$274.00		

2-Pole (400-Amp Frame), 600 Volts a-c, 250 Volts d-c

	Amp Rating	TJJ Fixed Trip		THJK HI-BREAK Interchangeable Trip①		
		Cat. No.	List Price Each	Cat. No.	List Price Each	
		125	TJJ436125WL		THJK436125WL	
		150	TJJ436150WL		THJK436150WL	
		175	TJJ436175WL		THJK436175WL	
		200	TJJ436200WL		THJK436200WL	
		225	TJJ436225WL	\$400.00	THJK436225WL	\$660.00
		250	TJJ436250WL		THJK436250WL	
		300	TJJ436300WL		THJK436300WL	
		350	TJJ436350WL		THJK436350WL	
400	TJJ436400WL		THJK436400WL			
400②	TJJ436Y400WL②	\$344.00				

3-Pole (400-Amp Frame), 600 Volts a-c

INSULATED GROUNDABLE NEUTRALS ONLY

Enclosure Type	Max Amp Rating	Cat. No.	List Price	Lug Wire Size
NEMA 1, and 3R	400	TN1400	\$18.50	(2) 1/0-250 MCM or (1) 4-600 MCM
	600	TN1600	20.50	(2) 2/0-500 MCM
NEMA 4, 5	400	Factory Installed	18.50	
	600		20.50	

**MAGNETIC ONLY③
Type TJK, 600-Amp Frame①**

Normal Amp Rating	Trip Unit Range in Amp		Complete Breaker Magnetic Only		Trip Unit Only	
	Min	Max	Cat. No.	List Price Each	Cat. No.	List Price Each
600	600	2000	TJK626M1600WL	\$516.00	TJK636TM1600	\$203.00
	1800	6000	2600WL	516.00	2600	203.00
600	600	2000	TJK636M1600WL	\$655.00	TJK636TM1600	\$203.00
	1800	6000	2600WL	655.00	2600	203.00

TJK Interchangeable Trip①

2P (400A Frame), 600V a-c, 250V d-c

	Amp Rating	TJK Interchangeable Trip①		
		Cat. No.	List Price Each	
		125	TJK426125WL	
		150	TJK426150WL	
		175	TJK426175WL	
		200	TJK426200WL	
		225	TJK426225WL	\$330.00
		250	TJK426250WL	
		300	TJK426300WL	
		350	TJK426350WL	
400	TJK426400WL			
400②	TJK426Y400WL②	\$274.00		

2P (400A Frame), 600V a-c, 250V d-c

	Amp Rating	TJK Interchangeable Trip①		
		Cat. No.	List Price Each	
		250	TJK826250WL	\$500.00
		300	TJK826300WL	500.00
		350	TJK826350WL	500.00
		400	TJK826400WL	500.00
		500	TJK826500WL	516.00
		600	TJK826600WL	516.00
		600②	TJK826Y600WL②	341.00

3P (400A Frame), 600V a-c

	Amp Rating	TJK Interchangeable Trip①		
		Cat. No.	List Price Each	
		125	TJK436125WL	
		150	TJK436150WL	
		175	TJK436175WL	
		200	TJK436200WL	
		225	TJK436225WL	\$400.00
		250	TJK436250WL	
		300	TJK436300WL	
		350	TJK436350WL	
400	TJK436400WL			
400②	TJK436Y400WL②	\$344.00		

3P (600A Frame), 600V a-c

	Amp Rating	TJK Interchangeable Trip①		
		Cat. No.	List Price Each	
		250	TJK636250WL	\$631.00
		300	TJK636300WL	631.00
		350	TJK636350WL	631.00
		400	TJK636400WL	631.00
		500	TJK636500WL	655.00
		600	TJK636600WL	655.00
		600②	TJK636Y600WL②	480.00

**FRAME ONLY
For Type TJK and THJK Breakers**

Description	Frame Rating	Poles	Cat. No.	List Price Each	
Conventional and Magnetic Only	400 Amp	2	TJK426F000	\$252.00	
		3	TJK436F000	317.00	
		2	TJK626F000	278.00	
	600 Amp	3	TJK636F000	400.00	
		400 Amp	2	THJK426F000	460.00
			3	THJK436F000	558.00
HI-BREAK®	600 Amp	2	See K1200 Line 800A Frame	.....
		3		.....

**MAGNETIC ONLY③
Types TJJ, TJK, 400-amp Frame①**

Normal Amp Rating	Trip Unit Range in Amp		COMPLETE BREAKER		Normal Amp Rating	Trip Unit Range in Amp		COMPLETE BREAKER		TRIP UNIT ONLY	
	Min	Max	Cat. No.	List Price		Min	Max	Cat. No.	List Price	Cat. No.	List Price
400	600	2000	TJJ426-M1400WL	\$330.00	400	600	2000	TJK426-M1400WL	\$330.00	TJK436-TM1400	\$76.00
	1200	4000	TJJ426-M2400WL			1200	4000	TJK426-M2400WL		TJK436-TM2400	
	Ship. Wt		16 lb			Ship. Wt		16 lb		3 lb	
400	600	2000	TJJ436-M1400WL	\$400.00	400	600	2000	TJK436-M1400WL	\$400.00	TJK436-TM1400	\$76.00
	1200	4000	TJJ436-M2400WL			1200	4000	TJK436-M2400WL		TJK436-TM2400	
	Ship. Wt		16 lb			Ship. Wt		16 lb		3 lb	

ENCLOSURES ONLY

Description	Cat. No.	List Price
NEMA 1, Handle-thru-cover Surface or Flush	TJ600S or F *TJ400S or F	\$42.00 23.00
NEMA 1, 1A—With KO's (D) NEMA 12—Without KO's (J)	TJ600D or J *TJ400D or J	121.00 64.00
NEMA 3R—Raintight, Blank End Walls, Add R	TJ600R *TJ400R	206.00 121.00
NEMA 4, 5—Water-, Dust-tight, Cast Iron (C)	TJ600C TJ400C	618.00 386.00
NEMA 4, 5 Stainless Steel	TJ600CS *TJ400CS	742.00 546.00

**TRIP UNIT ONLY
(For Use with TJK Breakers)**

400-amp Frame, 2- and 3-pole		
Amp Rating	Cat. No.	List Price
125	TJK436T125	
150	TJK436T150	
175	TJK436T175	
200	TJK436T200	
225	TJK436T225	\$76.00
250	TJK436T250	
300	TJK436T300	
350	TJK436T350	
400	TJK436T400	
400	TJKY3③	12.50
600-amp Frame, 2- and 3-pole		
Amp Rating	Cat. No.	List Price
250	TJK636T250	
300	TJK636T300	
400	TJK636T400	\$203.00
500	TJK636T500	
600	TJK636T600	
600	TJKY36①	28.00

**LUG WIRE SIZES
For Use with TJK & THJK Breakers**

Cat. No.	List Price	Wire Size
TCAL43 (CU-AL)	\$2.50	One 6-600 MCM or Twin 2/0-250 MCM
TCAL63	6.50	Twin 250-350 MCM-CU or Twin 350-500 MCM-AL

① Trips are not interchangeable between 400 amp and 600 amp frames.
② Nonautomatic interrupter.
③ All J400 and J600 enclosures accept all J400 and J600 magnetic breakers respectively.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC MOLDED-CASE CIRCUIT BREAKERS

K 1200 Line

Ambient Compensated

Interchangeable Trip Types TKM and THKM HI-BREAK®

Schematic Drawing	Amp Rating	BREAKER ONLY			
		TKM Interchangeable Trip ^①		THKM HI-BREAK Interchangeable Trip ^①	
		Cat. No.	List Price Each	Cat. No.	List Price Each
	125	TKMA826125WL		THKMA826125WL	
	150	TKMA826150WL		THKMA826150WL	
	175	TKMA826175WL		THKMA826175WL	
	200	TKMA826200WL		THKMA826200WL	
	225	TKMA826225WL		THKMA826225WL	
	250	TKMA826250WL	\$516.00	THKMA826250WL	\$680.00
	300	TKMA826300WL		THKMA826300WL	
	350	TKMA826350WL		THKMA826350WL	
	400	TKMA826400WL		THKMA826400WL	
	500	TKMA826500WL		THKMA826500WL	
600	TKMA826600WL		THKMA826600WL		
700	TKMA826700WL	719.00	THKMA826700WL	883.00	
800	TKMA826800WL		THKMA826800WL		
800 ^②	TKMA826Y800WL	356.00			

2-Pole (1200-Amp Frame) 600 Volts a-c					
	700	TKMA20700WL	\$925.00	THKMA20700WL	\$1089.00
	800	TKMA20800WL	925.00	THKMA20800WL	1089.00
	1000	TKMA21000WL	956.00	THKMA21000WL	1120.00
	1200	TKMA21200WL	1338.00	THKMA21200WL	1507.00
	1000 ^②	TKMA2Y1000WL ^③	586.00		
	1200 ^②	TKMA2Y1200WL ^③	606.00		

3-Pole (800-Amp Frame) 600 Volts a-c					
	125	TKMA836125WL		THKMA836125WL	
	150	TKMA836150WL		THKMA836150WL	
	175	TKMA836175WL		THKMA836175WL	
	200	TKMA836200WL		THKMA836200WL	
	225	TKMA836225WL		THKMA836225WL	
	250	TKMA836250WL	\$655.00	THKMA836250WL	\$819.00
	300	TKMA836300WL		THKMA836300WL	
	350	TKMA836350WL		THKMA836350WL	
	400	TKMA836400WL		THKMA836400WL	
	500	TKMA836500WL		THKMA836500WL	
600	TKMA836600WL		THKMA836600WL		
700	TKMA836700WL	865.00	THKMA836700WL	1029.00	
800	TKMA836800WL		THKMA836800WL		
800 ^②	TKMA836Y800WL	502.00			

3-Pole (1200-Amp Frame) 600 Volts a-c					
	700	TKMA30700WL	\$1071.00	THKMA30700WL	\$1235.00
	800	TKMA30800WL	1071.00	THKMA30800WL	1235.00
	1000	TKMA31000WL	1102.00	THKMA31000WL	1266.00
	1200	TKMA31200WL	1494.00	THKMA31200WL	1658.00
	1000 ^②	TKMA3Y1000WL ^③	732.00		
	1200 ^②	TKMA3Y1200WL ^③	762.00		

TRIP ONLY

800-Amp Frame (2- and 3-pole)		
Amp Rating	Cat. No.	List Price
125	TKMA836T125	
150	TKMA836T150	
175	TKMA836T175	
200	TKMA836T200	
225	TKMA836T225	\$203.00
250	TKMA836T250	
300	TKMA836T300	
350	TKMA836T350	
400	TKMA836T400	
500	TKMA836T500	203.00
600	TKMA836T600	
700	TKMA836T700	392.00
800	TKMA836T800	
	TKMAY3 ^④	29.00

1200-Amp Frame (2- and 3-pole)		
Amp Rating	Cat. No.	List Price
700	TKMA3T0700	\$393.00
800	TKMA3T0800	393.00
1000	TKMA3T1000	424.00
1200	TKMA3T1200	786.00
1000 ^②	TKMA3Y1200 ^③	54.00

LUGS ONLY

Breaker Amp Rating	2- and 3-pole		Wire Sizes
	Catalog Number (Order 2 per Pole)	List Price	
125	TCAL41 (copper/aluminum)	\$6.50	(2) 1/0-250 MCM (1) 4-600 MCM
150			
175			
200			
225			
250			
300			
400	TCAL61 (copper/aluminum)	6.50	(2) 2/0-500 MCM
500			
600			
700	TCAL81 (copper/aluminum)	10.00	(3) 250-500 MCM
800			
1000	TCAL81 (copper/aluminum)	10.00	(3) 250-500 MCM
1200			
1200	TCAL121* (copper/aluminum)	15.00	(4) 350-50 MCM (Al) (4) 250-350 MCM (Cu)
1200	TCT121 (copper only)	15.00	(4) 250-400 MCM
1200	TCAL122* (copper/aluminum)	20.00	(3) 500-750 MCM

* Not U/L listed.

ENCLOSURES ONLY

Description	Cat. No.	List Price
NEMA 1 — Handle-thru-Cover, Surface or Flush	TK1200S or F	\$42.00
NEMA 12 — External Handle, NO Knockouts	TK1200J	121.00
NEMA 3R — Raintight Blank Endwalls	TK1200R	206.00
NEMA 4, 5 — Water-, Dust-tight, Cast Iron	TK1200C	693.00

FRAME ONLY

Description	Frame Rating	Poles	Cat. No.	List Price Each	
Conventional and Magnetic Only	800 Amp	2	TKM826F000	\$287.00	
		3	TKM836F000	413.00	
		2	TKM2F	492.00	
	1200 Amp	3	TKM3F	618.00	
		800 Amp	2	THKM826F000	451.00
			3	THKM836F000	577.00
Hi-Break	1200 Amp	2	THKM2F	656.00	
		3	THKM3F	782.00	

MAGNETIC ONLY^③

Normal Amp Rating	Trip Unit Range in Amp		BREAKER ONLY		TRIP UNIT ONLY	
			Cat. No.	List Price Each	Cat. No.	List Price Each

Type TKM 800-Amp Frame ^① , 2-Pole, 600 Volts a-c						
600	350	700	TKMA826M1400WL	\$516	TKMA836TM1400	\$203
	400	1000				
	600	2000				
600	600	4000	TKMA826M3400WL	516	TKMA836TM5600	203
	1100	2000				
	2000	4000WL				
600	1500	6000	TKMA826M5600WL	516	TKMA836TM5600	203
800	2400	8000	TKMA826M6800WL	719	TKMA836TM6800	392

Type TKM, 1200-Amp Frame ^② , 2-Pole, 600 Volts a-c						
1200	1500	600	TKMA2M51200WL	\$1338	TKMA3TM51200WL	\$785
	2400	8000				
1200	1500	600	TKMA2M61200WL	\$1338	TKMA3TM61200WL	\$785
	2400	8000				

Type TKM 800-Amp Frame ^① , 3-Pole, 600 Volts a-c						
600	350	700	TKMA836M1400WL	\$655	TKMA836TM1400	\$203
	400	1000				
	600	2000				
600	600	4000	TKMA836M3400WL	655	TKMA836TM5600	203
	1100	2000				
	2000	4000WL				
600	1500	6000	TKMA836M5600WL	655	TKMA836TM5600	203
800	2400	8000	TKMA836M6800WL	865	TKMA836TM6800	392

Type TKM, 1200-Amp Frame ^② , 3-Pole, 600 Volts a-c						
1200	1500	6000	TKMA3M51200WL	\$1494	TKMA3TM51200WL	\$785
	2400	8000				
1200	1500	6000	TKMA3M61200WL	\$1494	TKMA3TM61200WL	\$785
	2400	8000				

INSULATED GROUNDABLE NEUTRALS ONLY

Enclosure Type	Max Amp Rating	Cat. No.	List Price	Lug Wire Sizes
NEMA 1, 3R	225	TN1225	\$15.50	(2) 6-250 MCM
	400	TN1400	18.50	(2) 1-800 MCM
	600	TN1600	21.00	(2) 2/0-500 MCM
	800	TN1800	23.00	(3) 250-500 MCM
	1200*	TN1200*	42.00	(4) 250-350 MCM CU (4) 350-500 MCM CU
	1200	TN1C1200	42.00	
NEMA 4, 5	225	Factory Installed	15.50	See Ratings above
	400		18.50	
	600		21.00	
	800		23.00	
	1200*		42.00	

* Provides for 4 cables. Where provision for only 3 cables is required, the TN1800 may be used. TN1200 not U/L approved.

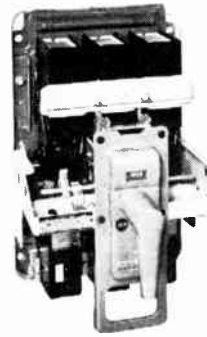
① Trips are not interchangeable between 800 amp and 1200 amp frames.
 ② Nonautomatic interrupter.
 ③ All TK1200 enclosures accept all TKM800 and 1200A magnetic breakers.
 ④ Enclosure U/L listed through 1200 amperes. Order hubs separately.

The Above Items Are Subject to 50% Discount

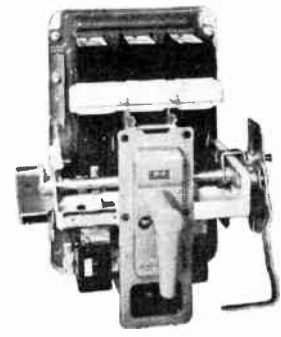
GENERAL ELECTRIC POWER CIRCUIT BREAKERS

Use as individually mounted units or as switching breaker in panelboard or switchgear equipment. Suitable for severe service, and where numerous operations are required for general power, lighting circuits, or motor-starting service.

Revolving pistol-grip handle operates manual quick-make mechanism, push-button trip for mechanical quick-break. Dual-magnetic time overcurrent trip unit per pole; arc quenchers; position indicator; provision for up to three padlocks for locking in trip-free position; bolted-type terminal connectors for enclosed breaker; selected enclosure except breakers for dead-front switchboard mounting. Electrically operated breaker eliminates operating handle; has solenoid (AK-2-15 and AK-2-25) or motor-operated (AK-2-50, AK-2-75, and AK-2-100) stored energy operating mechanism; closing relay; shunt trip device; four-circuit auxiliary switch, momentary-contact closing switch, and maintenance closing handle.



AK-2-15 stationary power circuit breaker, manual.



AK-2-25 drawout power circuit breaker, manual.

RATINGS

Circuit Breaker Type (Frame Size)	Voltage Rating		Current Rating—Amperes					Standard Trip Coil Ratings—Amperes			
	A-c	D-c	Continuous Range	Interrupting Symmetrical	Interrupting Asymmetrical and D-c	Short-time Rating Symmetrical	Cascade Interrupting Rating Symmetrical				
AK-2-15	600	250	15- 225	14,000	15,000	9,000	25,000	{ 15, 20, 30, 40, 50 70, 90, 100, 125 150, 175, 200, 225			
	480	...	25- 225	22,000	25,000	9,000	42,000				
	240	...	35- 225	25,000	30,000	9,000	50,000				
AK-2-25	600	250	40- 600	22,000	25,000	22,000	42,000	{ 40, 50, 70, 90, 100 125, 150, 175, 200 225, 250, 300, 350 400, 500, 600			
	480	...	100- 600	30,000	35,000	22,000	60,000				
	240	...	150- 600	42,000	50,000	22,000	85,000				
AK-2-50	600	250	200-1600	42,000	50,000	42,000	85,000	{ 200, 225, 250, 300 350, 400, 500, 600 800, 1000, 1200, 1600			
	480	...	400-1600	50,000	60,000	50,000	85,000				
	240	...	600-1600	65,000	75,000	50,000	100,000				
AK-2-75	600	250	2000-3000	65,000	75,000	65,000	85,000	2000, 2500, 3000			
	480	...	2000-3000	65,000	75,000	65,000	85,000				
	240	...	2000-3000	85,000	100,000	65,000	130,000				
AK-2-100	600	250	4000	85,000	100,000	85,000	85,000	4000			
	480	...	4000	85,000	100,000	85,000	85,000				
	240	...	4000	130,000	150,000	85,000	130,000				

3-POLE BREAKERS

Breaker Type	Type of Operation	Net Price, Each*							Skeleton Drawout		
		Dead front Switch-board Mounting	General purpose Enclosure NEMA 1	Semi-dust-tight Enclosure NEMA 1A	Weather-proof Enclosure NEMA 3	Dust-tight Watertight Enclosure NEMA 4, 5	Explosion proof NEMA 7	Complete Unit	Box only	Removable Element	
AK-15	Man	\$505	\$605	\$645	\$780	...	...	\$815	\$240	\$575
AK-15	Elec	805	910	950	1085	...	...	1155	250	905
AK-25	Man	635	735	775	910	\$1235	\$1735	950	240	710	
AK-25	Elec	930	1035	1075	1210	1535	2035	1265	250	1015	
AK-50	Man	1585	1815	1895	2215	3000	4165	2030	360	1670	
AK-50	Elec	2225	2460	2540	2860	3650	...	2700	375	2225	
AK-75	Man or Elec	4805	5610	...	6765	...	...	6020	945	5075
AK-100	Man or Elec	6990	8040	...	9280	...	...	9140	1605	7535
AK-25 Fus.Δ	Man	...	...	...	...	...	...	1365	370	995
	Elec	...	...	...	...	...	...	1690	380	1310
AK-50 Fus.Δ	Man	...	...	...	...	...	...	2785	555	2230
	Elec	...	...	...	...	...	...	3465	565	2900

§ 200-1200 amperes continuous current. φ Refer to Graybar for 2- or 4-pole breakers.
 † Type AK-1 breaker only. Δ Furnished with G-E CLF® Fuses (200,000 rms symmetrical amperes interrupting rating.)
 ‡ Electrical only.

ACCESSORIES

Breaker Type	Auxiliary Switch		Under-voltage Instantaneous †	Under-voltage Time Delay	Over-current Bell Alarm or Lockout	Reverse Current Device	Shunt Trip ‡	Front Plate	Formed Door	Selective Trip Per Breaker	Neutral Conn	Kirk Interlock	
	4 Contacts †	6 Additional Contacts										Complete	Provision
AK-15	\$ 60	\$ 60	\$ 95	\$140	\$ 95	\$180	\$ 95	\$ 30	\$ 50	\$110	\$ 80	\$ 80	\$ 30
AK-25	60	60	95	140	95	180	95	30	50	110	80	80	30
AK-50	60	60	95	140	95	290	95	35	60	110	120	80	30
AK-75	60	60	95	140	95	400	95	70	110	110	240	80	30
AK-100	60	60	95	140	95	400	95	95	150	110	240	80	30

† Included with electrically operated breaker.
 ‡ Can be interchanged for shunt trip device on electrically operated breakers.

* Suggested user Net Price.

Selection and application information in Bulletin GET-1113. Or call Graybar for complete details.

GENERAL ELECTRIC TYPE PLB POWER PROTECTOR

APPLICATION

A "bolted"-pressure switch for service entrance, transfer and feeder circuit switching and protection in schools, hospitals, shopping centers, apartments and industrial plants. The PLB Power Protector can also be furnished with copper bars, instead of fuses for use as a non-fused disconnect switch.

DESCRIPTION

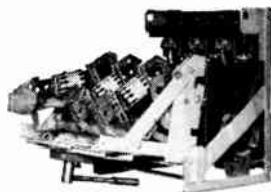
The PLB is available as either a Stationary Dead Front Mounted Switch or in the NEMA 1 General Purpose Enclosure for wall or floor mounting. Compact construction allows easier installation in up to 67 percent less floor space than other competitive models; switches up to 2000 amp can be stacked three high in a 90-inch enclosure.

FEATURES

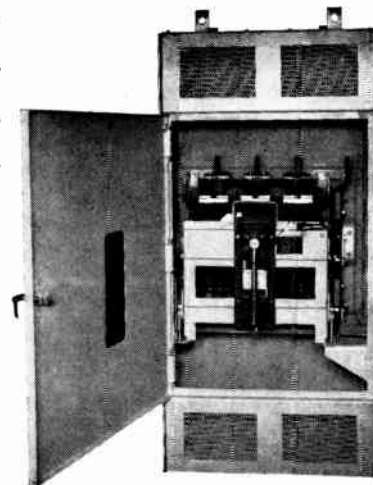
Fuse "Rack-out"—Unique "rack-out" fuse carriage holds standard Class L current-limiting fuses mounted in a combination fuse holder and arcing contact assembly. Complete three-pole fuse assembly is switched in and out of the circuit. No separate switch assembly is necessary.

Reliability—Switching is handled by long-life replaceable arcing contacts; current does not make or break on fuse tangs. When switch is closed, "bolted" pressure is applied directly to fuse tangs.

"Anti-tease" mechanism—Operator cannot reverse direction until switch contacts are made. "Anti-tease" mechanism also absorbs any energy due to magnetic forces associated with closing in against faulty conditions, preventing transmission of these forces to operating handle. In the open position, entire fuse assembly can be tilted forward to disconnect fuses from line and load connections,



PLB in open position with fuses racked-out



PLB in free-standing enclosure

making fuses readily accessible for maintenance. Only a screwdriver is needed to replace fuses. Top or bottom feed switch can be top or bottom fed because fuses are completely removable for servicing.

Separable frame—Front frame with operating mechanism, fuses and movable arcing contacts can be completely separated from back frame and removed from enclosure for ease of installation and maintenance.

Front or back connection—Unique flat terminal pads in horizontal plane provide universal points for front or rear connection. Terminal adapter bars drilled for bolting to the terminal pads are provided with NEMA 1 PLB to permit mounting of customer's terminal lugs.

Mounting—Mounting dimensions generally interchangeable with equivalent rated Type AK power circuit breakers.

Continuous Current Rating in Amp	3 Pole, 3 Wire				3 Pole, 4 Wire†				Price Addition for 3 GE CLF® Fuses	
	240 Volts, A-c		600 Volts, A-c		240 Volts, A-c		600 Volts, A-c		Cat. No.	Net Price*
	Cat. No.	Net Price	Cat. No.	Net Price*	Cat. No.	Net Price*	Cat. No.	Net Price*		
STATIONARY DEAD-FRONT SWITCHBOARD MOUNTING△—FUSES NOT INCLUDED†										
800	2PLB8	\$440	6PLB8	\$560	2PLB8N	\$490	6PLB8N	\$610	GF8B800	\$135
1000	2PLB12	440	6PLB12	560	2PLB12N	490	6PLB12N	610	GF8B1000	135
1200	2PLB12	440	6PLB12	560	2PLB12N	490	6PLB12N	610	GF8B1200	135
1600	2PLB16	470	6PLB16	595	2PLB16N	535	6PLB16N	655	GF8B1600	205
2000	2PLB20	525	6PLB20	645	2PLB20N	600	6PLB20N	720	GF8B2000	255
2500	2PLB25	¢	6PLB25	¢	2PLB25N	¢	6PLB25N	¢	GF8B2500	¢
3000	2PLB30	¢	6PLB30	¢	2PLB30N	¢	6PLB30N	¢	GF8B3000	¢
4000	2PLB40	¢	6PLB40	¢	2PLB40N	¢	6PLB40N	¢	GF8B4000	¢

GENERAL-PURPOSE ENCLOSED△—FUSES AND TERMINAL LUGS NOT INCLUDED§										
Switch (Amp)	Fuse (Amp)	Adapter Catalog Number	Net Price*							
800	2PLBE8	\$730	6PLBE8	\$850	2PLBE8N	\$785	6PLBE8N	\$905	GF8B800	\$135
1000	2PLBE12	730	6PLBE12	850	2PLBE12N	785	6PLBE12N	905	GF8B1000	135
1200	2PLBE12	730	6PLBE12	850	2PLBE12N	785	6PLBE12N	905	GF8B1200	135
1600	2PLBE16	765	6PLBE16	890	2PLBE16N	830	6PLBE16N	950	GF8B1600	205
2000	2PLBE20	820	6PLBE20	940	2PLBE20N	890	6PLBE20N	1015	GF8B2000	255
2500	2PLBE25	¢	6PLBE25	¢	2PLBE25N	¢	6PLBE25N	¢	GF8B2500	¢
3000	2PLBE30	¢	6PLBE30	¢	2PLBE30N	¢	6PLBE30N	¢	GF8B3000	¢
4000	2PLBE40	¢	6PLBE40	¢	2PLBE40N	¢	6PLBE40N	¢	GF8B4000	¢

△ Specify down-fusing adapters when required.
 † Prices are for protector element only. Fuses must be ordered separately.
 ‡ Prices include the neutral assembly.
 § Catalog numbers and prices cover the enclosure, the protector element, and terminal adapter bars. Fuses must be ordered separately. Terminal lugs are not included and should be provided by the customer. Refer to GEA-8100 for suggested types of terminal lugs.
 * Consult Graybar for prices and availability.

NOTE: A provision of Kirk Interlock (locks not included) is available at \$40 each. It is recommended that Kirk Interlock's F-3^g be ordered directly from the lock manufacturer. PLB is also available as a nonfused disconnect switch at no change in list prices.

DOWN-FUSING ADAPTERS

The PLB Power Protector is fully rated (does not require derating) however down-fuse adapters are required for the PLB where the fuse ratings are smaller than that of the pressure switch. Specify down-fuse adapters by catalog number given below:

Switch (Amp)	Fuse (Amp)	Adapter Catalog Number	Net Price*
1200	800	788D0670G3	Included in Price of Switch
1200	1000	No adapter required	
1600	800	788D0671G2	Included in Price of Switch
1600	1200/1000	788D0670G2	
2000	1200/1000	788D0671G1	Included in Price of Switch
2000	1600	788D0670G1	
2500	2000	¢	Included in Price of Switch
2500	1600	¢	
3000	2500	¢	
3000	2000	¢	
3000	1600	¢	
4000	3000/2500	¢	
4000	2000	¢	

¢ Consult Graybar for availability.

* Suggested user Net Price.

Call Graybar for complete details.

FPE ENCLOSED INDUSTRIAL CIRCUIT BREAKERS

CIRCUIT BREAKERS AND ENCLOSURES

Frame Breaker	Rating Amps	Circuit Breaker Only *				Asymetrical RMS Ampere Interrupting Rating (Symmetrical Rating)				NEMA 1 Encl. Only 2 & 3 Pole	NEMA 1A Dust Res. Encl. Only 2 & 3 Pole	NEMA 3R Raintight Encl. Toggle Handle Box Only
		2 Pole		3 Pole		240V	480V	600V	DC	Cat. No. List Price	Cat. No. List Price	Cat. No. List Price
		Cat. No.	List Price	Cat. No.	List Price							

Plug-In STABreaker® (Toggle Handle)

NE-S 100 Amp 240 Volts A.C. 125 250 Volts D.C.	15	2215	\$ 34.00	2315	\$ 47.00	7.5M (7.5M)	---	---	5M	---	Cat. No. 2100 Shpr. Wt. 16 lbs. List Price \$13.40
	20	2220	34.00	2320	47.00						
	30	2230	34.00	2330	47.00						
	40	2240	34.00	2340	47.00						
	50	2250	34.00	2350	47.00						
	70	2270	52.00	2370	67.00						
100	2200	52.00	2300	67.00							
100★	2200NA	34.00	2300NA	47.00							

Fixed Mounted Rotary Handle Circuit Breakers ■

NEF-R 100 Amp 480 Volts A.C. 125 250 Volts D.C.	15	NEF421015R	56.00	NEF431015R	70.00	2 Pole 20M (18M)	2 Pole 15M (14M)	---	2 Pole 10M	Cat. No. 1100 Shpg. Wt. 14 lbs. List Price \$13.40	Cat. No. 2400 Shpg. Wt. 14 lbs. List Price \$19.00	Cat. No. RH1100 Shpg. Wt. 16 lbs. List Price \$36.00
	20	NEF421020R	56.00	NEF431020R	70.00							
	30	NEF421030R	56.00	NEF431030R	70.00							
	40	NEF421040R	56.00	NEF431040R	70.00							
	50	NEF421050R	56.00	NEF431050R	70.00							
	70	NEF421070R	70.00	NEF431070R	85.00							
100	NEF421100R	70.00	NEF431100R	85.00								
100★	NEF421100RNA	50.00	NEF431100RNA	65.00								
NEF-R† 100 Amp. 600 Volts A.C. 250 Volts D.C.	15	NEF621015R	65.00	NEF631015R	83.00	2 Pole 20M (18M)	2 Pole 15M (14M)	---	2 Pole 10M	Cat. No. 1100 Shpg. Wt. 14 lbs. List Price \$13.40	Cat. No. 4100 Shpg. Wt. 14 lbs. List Price \$19.00	Cat. No. RH1100 Shpg. Wt. 16 lbs. List Price \$36.00
	20	NEF621020R	65.00	NEF631020R	83.00							
	30	NEF621030R	65.00	NEF631030R	83.00							
	40	NEF621040R	65.00	NEF631040R	83.00							
	50	NEF621050R	65.00	NEF631050R	83.00							
	70	NEF621070R	82.00	NEF631070R	100.00							
100	NEF621100R	82.00	NEF631100R	100.00								
100★	NEF621100RNA	65.00	NEF631100RNA	83.00								
NFJ-R 225 Amp. 600 Volts A.C. 250 Volts D.C.	70	NFJ621070R	184.00	NFJ631070R	221.00	30M (25M)	25M (22M)	15M (14M)	10M	Cat. No. 1225 Shpg. Wt. 16 lbs. List Price \$16.50	Cat. No. 4225 Shpg. Wt. 16 lbs. List Price \$27.00	Cat. No. RH1225T Shpg. Wt. 18 lbs. List Price \$55.00
	100	NFJ621100R	184.00	NFJ631100R	221.00							
	125	NFJ621125R	184.00	NFJ631125R	221.00							
	150	NFJ621150R	184.00	NFJ631150R	221.00							
	175	NFJ621175R	184.00	NFJ631175R	221.00							
	200	NFJ621200R	184.00	NFJ631200R	221.00							
225	NFJ621225R	184.00	NFJ631225R	221.00								
225★	NFJ621225RNA	146.00	NFJ631225RNA	184.00								
NJL-R 400 Amp 600 Volts A.C. 250 Volts D.C.	70	NJL621070R	206.00	NJL631070R	253.00	50M (42M)	35M (30M)	25M (22M)	20M	Cat. No. 1400 Shpg. Wt. 33 lbs. List Price \$23.60	Cat. No. 4400 Shpg. Wt. 33 lbs. List Price \$54.00	Cat. No. RH1400T Shpg. Wt. (3 1/2" Hub) YR1400T (4" Hub) List Price \$121.00
	100	NJL621100R	206.00	NJL631100R	253.00							
	125	NJL621125R	206.00	NJL631125R	253.00							
	150	NJL621150R	206.00	NJL631150R	253.00							
	175	NJL621175R	206.00	NJL631175R	253.00							
	200	NJL621200R	206.00	NJL631200R	253.00							
	225	NJL621225R	206.00	NJL631225R	253.00							
	250	NJL621250R	324.00	NJL631250R	393.00							
	300	NJL621300R	324.00	NJL631300R	393.00							
	350	NJL621350R	324.00	NJL631350R	393.00							
400	NJL621400R	324.00	NJL631400R	393.00								
400★	NJL621400RNA	246.00	NJL631400RNA	295.00								
NM-R 800 Amp 600 Volts A.C. 250 Volts D.C.	125	NM621125R	353.00	NM631125R	428.00	50M (42M)	35M (30M)	25M (22M)	20M	Cat. No. 1800 Shpg. Wt. 80 lbs. List Price \$41.00	Cat. No. 4800 Shpg. Wt. 80 lbs. List Price \$106.00	---
	150	NM621150R	353.00	NM631150R	428.00							
	175	NM621175R	353.00	NM631175R	428.00							
	200	NM621200R	353.00	NM631200R	428.00							
	225	NM621225R	353.00	NM631225R	428.00							
	250	NM621250R	353.00	NM631250R	428.00							
	300	NM621300R	353.00	NM631300R	428.00							
	350	NM621350R	353.00	NM631350R	428.00							
	400	NM621400R	353.00	NM631400R	428.00							
	500	NM621500R	529.00	NM631500R	671.00							
600	NM621600R	529.00	NM631600R	671.00								
700	NM621700R	686.00	NM631700R	881.00								
800	NM621800R	686.00	NM631800R	881.00								
800★	NM621800RNA	359.00	NM631800RNA	446.00								

★Non-Automatic Circuit Interrupter.

**Standard Nema 12 Enclosures have knockouts. Enclosures without knockouts must be specially ordered.

⊙Order Cat. No. 2PFP filler plate when 2 pole NEF circuit breakers are used with Cat. No. 4100 and 1100 enclosures.

† Consult factory for availability.

‡ Includes neutral.

• Raintight enclosures accept toggle handle breakers only. To order toggle handle breakers, drop suffix "R" from above catalog numbers.

△ For hub sizes of raintight enclosures, see another page.

■ High interrupting rating breakers are available. Contact local sales office.

*Neutrals—add to enclosure list price. Order separately

Neutral Rating Amp	Cat. No.	List Price	Shp. Wt., lbs.
100	11SN	\$ 7.20	1
225	22SN	15.50	2
400	66	18.50	3
800	88	23.00	4

The Above Items Are Subject to 50% Discount

FPE ENCLOSED INDUSTRIAL CIRCUIT BREAKERS

NEMA 3, 4, 5, 7 AND NEMA 9 ENCLOSED CIRCUIT BREAKERS

Frame Breaker	Rating Amps	NEMA 3, 4, 5 WATER AND DUST TIGHT AND NEMA 9 CLASS II, GROUPS E, F, & G FOR HAZARDOUS LOCATIONS WITH BOLTED COVER				NEMA 7, CLASS I, GROUP D AND NEMA 9 CLASS II, GROUPS E, F, & G FOR HAZARDOUS LOCATIONS WITH BOLTED COVER				Neutral† List Price addition	
		2 Pole		3 Pole		2 Pole		3 Pole			
		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price		
NE 100 Amp 240 Volts A.C. 125/250 Volts D.C.	15	GE22015	\$ 81.00	GE23015	\$ 117.00	EE22015	\$ 109.00	EE23015	\$ 123.00	\$11.00	
	20	GE22020	81.00	GE23020	117.00	EE22020	109.00	EE23020	123.00		
	30	GE22030	81.00	GE23030	117.00	EE22030	109.00	EE23030	123.00		
	40	GE22040	81.00	GE23040	117.00	EE22040	109.00	EE23040	123.00		
	50	GE22050	81.00	GE23050	117.00	EE22050	109.00	EE23050	123.00		
70	GE22070	132.00	GE23070	146.00	EE22070	163.00	EE23070	177.00			
100	GE22100	132.00	GE23100	146.00	EE22100	163.00	EE23100	177.00			
100★	GE22100NA	113.00	GE23100NA	127.00	EE22100NA	144.00	EE23100NA	158.00			
NEF 100 Amp. 480 Volts A.C. 125/250 Volts D.C.	15	GEF42015	128.00	GEF43015	142.00	EEF42015	133.00	EEF43015	147.00		\$11.00
	20	GEF42020	128.00	GEF43020	142.00	EEF42020	133.00	EEF43020	147.00		
	30	GEF42030	128.00	GEF43030	142.00	EEF42030	133.00	EEF43030	147.00		
	40	GEF42040	128.00	GEF43040	142.00	EEF42040	133.00	EEF43040	147.00		
	50	GEF42050	128.00	GEF43050	142.00	EEF42050	133.00	EEF43050	147.00		
70	GEF42070	151.00	GEF43070	166.00	EEF42070	182.00	EEF43070	197.00			
100	GEF42100	151.00	GEF43100	166.00	EEF42100	182.00	EEF43100	197.00			
100★	GEF42100NA	132.00	GEF43100NA	146.00	EEF42100NA	163.00	EEF43100NA	177.00			
NEF† 100 Amp 600 Volts A.C. 250 Volts D.C.	15	GEF62015	146.00	GEF63015	164.00	EEF62015	177.00	EEF63015	195.00	\$11.00	
	20	GEF62020	146.00	GEF63020	164.00	EEF62020	177.00	EEF63020	195.00		
	30	GEF62030	146.00	GEF63030	164.00	EEF62030	177.00	EEF63030	195.00		
	40	GEF62040	146.00	GEF63040	164.00	EEF62040	177.00	EEF63040	195.00		
	50	GEF62050	146.00	GEF63050	164.00	EEF62050	177.00	EEF63050	195.00		
70	GEF62070	206.00	GEF63070	222.00	EEF62070	240.00	EEF63070	258.00			
100	GEF62100	206.00	GEF63100	222.00	EEF62100	240.00	EEF63100	258.00			
100★	GEF62100NA	146.00	GEF63100NA	164.00	EEF62100NA	177.00	EEF63100NA	195.00			
NF 100 Amp 600 Volts A.C. 250 Volts D.C.	15	GF62015	146.00	GF63015	164.00	EF62015	177.00	EF63015	195.00		\$11.00
	20	GF62020	146.00	GF63020	164.00	EF62020	177.00	EF63020	195.00		
	30	GF62030	146.00	GF63030	164.00	EF62030	177.00	EF63030	195.00		
	40	GF62040	146.00	GF63040	164.00	EF62040	177.00	EF63040	195.00		
	50	GF62050	146.00	GF63050	164.00	EF62050	177.00	EF63050	195.00		
70	GF62070	206.00	GF63070	222.00	EF62070	240.00	EF63070	258.00			
100	GF62100	206.00	GF63100	222.00	EF62100	240.00	EF63100	258.00			
100★	GF62100NA	146.00	GF63100NA	164.00	EF62100NA	177.00	EF63100NA	195.00			
NFJ 100 Amp 600 Volts A.C. 250 Volts D.C.	15	GFJ62015	371.00	GFJ63015	412.00	EFJ62015	443.00	EFJ63015	484.00	\$15.00	
	20	GFJ62020	371.00	GFJ63020	412.00	EFJ62020	443.00	EFJ63020	484.00		
	30	GFJ62030	371.00	GFJ63030	412.00	EFJ62030	443.00	EFJ63030	484.00		
	40	GFJ62040	371.00	GFJ63040	412.00	EFJ62040	443.00	EFJ63040	484.00		
	50	GFJ62050	371.00	GFJ63050	412.00	EFJ62050	443.00	EFJ63050	484.00		
70	GFJ62070	371.00	GFJ63070	412.00	EFJ62070	443.00	EFJ63070	484.00			
100	GFJ62100	371.00	GFJ63100	412.00	EFJ62100	443.00	EFJ63100	484.00			
100★	GFJ62100NA	335.00	GFJ63100NA	371.00	EFJ62100NA	407.00	EFJ63100NA	443.00			
NJL 400 Amp. 600 Volts A.C. 250 Volts D.C.	70	GJL62070	497.00	GJL63070	539.00	EJL62070	577.00	EJL63070	622.00		\$18.00
	100	GJL62100	497.00	GJL63100	539.00	EJL62100	577.00	EJL63100	622.00		
	125	GJL62125	497.00	GJL63125	539.00	EJL62125	577.00	EJL63125	622.00		
	150	GJL62150	497.00	GJL63150	539.00	EJL62150	577.00	EJL63150	622.00		
	175	GJL62175	497.00	GJL63175	539.00	EJL62175	577.00	EJL63175	622.00		
	200	GJL62200	497.00	GJL63200	539.00	EJL62200	577.00	EJL63200	622.00		
	225	GJL62225	497.00	GJL63225	539.00	EJL62225	577.00	EJL63225	622.00		
	250	GJL62250	695.00	GJL63250	761.00	EJL62250	908.00	EJL63250	974.00		
	300	GJL62300	695.00	GJL63300	761.00	EJL62300	908.00	EJL63300	974.00		
	350	GJL62350	695.00	GJL63350	761.00	EJL62350	908.00	EJL63350	974.00		
400	GJL62400	695.00	GJL63400	761.00	EJL62400	908.00	EJL63400	974.00			
400★	GJL62400NA	620.00	GJL63400NA	667.00	EJL62400NA	883.00	EJL63400NA	899.00			
NM 800 Amp. 600 Volts A.C. 250 Volts D.C.	125	GM62125	732.00	GM63125	804.00	EM62125	939.00	EM63125	1011.00	\$22.00	
	150	GM62150	732.00	GM63150	804.00	EM62150	939.00	EM63150	1011.00		
	175	GM62175	732.00	GM63175	804.00	EM62175	939.00	EM63175	1011.00		
	200	GM62200	732.00	GM63200	804.00	EM62200	939.00	EM63200	1011.00		
	250	GM62250	732.00	GM63250	804.00	EM62250	939.00	EM63250	1011.00		
	300	GM62300	732.00	GM63300	804.00	EM62300	939.00	EM63300	1011.00		
	350	GM62350	732.00	GM63350	804.00	EM62350	939.00	EM63350	1011.00		
	400	GM62400	732.00	GM63400	804.00	EM62400	939.00	EM63400	1011.00		
	500	GM62500	1134.00	GM63500	1273.00	EM62500	1271.00	EM63500	1410.00		
	600	GM62600	1134.00	GM63600	1273.00	EM62600	1271.00	EM63600	1410.00		
700	GM62700	1291.00	GM63700	1483.00	EM62700	1428.00	EM63700	1620.00			
800	GM62800	1291.00	GM63800	1483.00	EM62800	1428.00	EM63800	1620.00			
800★	GM62800NA	1014.00	GM63800NA	1120.00	EM62800NA	1151.00	EM63800NA	1257.00			

★ Non-Automatic Circuit Interrupter.

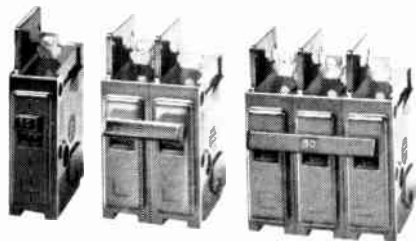
Note: For Interrupting Ratings see preceding page.

† Neutrals must be factory installed. Add suffix "I" to catalog number.

‡ Consult factory for availability.

The Above Items Are Subject to 50% Discount

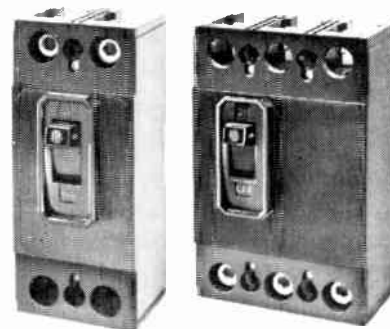
**I-T-E MOLDED-CASE CIRCUIT BREAKERS
NORMAL DUTY**



EQ-B



EQ-P



QJ

EQ®-B BOLTED—100A

Rating Amperes	Cat. No.	List Price
1 POLE 120/240 VOLT AC		
15 20 30 40 50	BQ1-B015 BQ1-B020 BQ1-B030 BQ1-B040 BQ1-B050	\$3.60
2 POLE 120/240 VOLT AC		
15 20 30	BQ2-B015 BQ2-B020 BQ2-B030	7.90
40 50 60	BQ2-B040 BQ2-B050 BQ2-B060	
70 90 100	BQ2-B070 BQ2-B090 BQ2-B100	15.00 20.10 20.10
2 POLE 240 VOLT AC		
15 20 30	BQ2-H015 BQ2-H020 BQ2-H030	20.10
40 50 60 70	BQ2-H040 BQ2-H050 BQ2-H060 BQ2-H070	
90 100	BQ2-H090 BQ2-H100	23.10
3 POLE 240 VOLT AC		
15 20	BQ3-B015 BQ3-B020	25.00
30 40 50	BQ3-B030 BQ3-B040 BQ3-B050	
70 90 100	BQ3-B070 BQ3-B090 BQ3-B100	32.00 37.00 37.00

EQ-P PLUG-IN—125A, QJ-225A

Rating Amperes	COMPLETE BREAKER UNENCLOSED		ENCLOSED BREAKER			
	Cat. No.	List Price	NEMA 1—Indoor, Surface		NEMA 3—Outdoor, Raintight	
			Breaker and Enclosure List Price	Enclosure Only Cat. No.	List Price	Breaker and Enclosure List Price

EQ-P PLUG-IN—125 AMPERE

1 POLE 120/240 VOLT AC								
15 20 30 40 50	QP1-B015 QP1-B020 QP1-B030 QP1-B040 QP1-B050	\$2.80	\$7.30	EQ 25	\$4.50	\$12.30	WEQ 2	\$9.50
2 POLE COMMON TRIP 120/240 VOLT AC								
15 20 30 40 50	QP2-B015 QP2-B020 QP2-B030 QP2-B040 QP2-B050	6.60	11.10	EQ 25	4.50	16.10	WEQ 2	9.50
60 70 90 100 125	QP2-B060 QP2-B070 QP2-B090 QP2-B100 QP2-B125	6.60 13.40 18.20 18.20 42.00	12.10 18.90 23.70 23.70 47.50	EQ 125-25	5.50	17.10 23.90 28.70 28.70 52.50	WEQ 125-2	10.50
2 POLE COMMON TRIP 240 VOLT AC								
15 20 30 40 50	QP2-H015 QP2-H020 QP2-H030 QP2-H040 QP2-H050	18.20	22.70	EQ 25	4.50	27.70	WEQ 2	9.50
60 70	QP2-H060 QP2-H070			23.70	EQ 125-25	5.50	28.70	WEQ 125-2	10.50
90 100	QP2-H090 QP2-H100	21.20	26.70			31.70		
3 POLE COMMON TRIP 240 VOLT AC								
15 20 30 40 50	QP3-B015 QP3-B020 QP3-B030 QP3-B040 QP3-B050	22.70	31.20	EQ 50-35	8.50	36.20	WEQ 50-3	13.50
70 90 100	QP3-B070 QP3-B090 QP3-B100	28.80 33.00 33.00	41.30 45.50 45.50	EQ 100-35	12.50	47.30 51.50 51.50	WEQ 100-3	18.50

QJ—225 AMPERE

2 POLE 240 VOLT AC								
125 150 175 200 225	QJ2-B125 QJ2-B150 QJ2-B175 QJ2-B200 QJ2-B225	42.00	58.50	EQ 225-35	16.50	90.00	WEQ 225-3	48.00
3 POLE 240 VOLT AC								
125 150 175 200 225	QJ3-B125 QJ3-B150 QJ3-B175 QJ3-B200 QJ3-B225	113.00	129.50	EQ 225-35	16.50	161.00	WEQ 225-3	48.00
225	QJ3-S225	101.00	117.50	EQ 225-35	16.50	149.00	WEQ 225-3	48.00

The Above Items Are Subject to 50% Discount

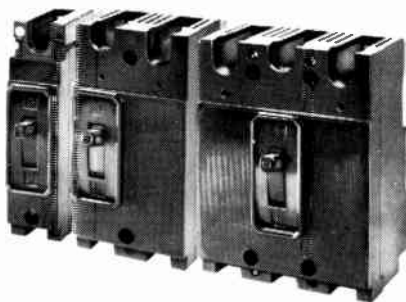
I-T-E MOLDED-CASE CIRCUIT BREAKER

ET[®] HEAVY DUTY

E, EH, EF—100A

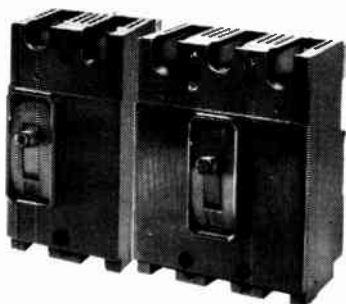
NON-INTERCHANGEABLE TRIP

Rating Amperes	COMPLETE BREAKER, UNENCLOSED		ENCLOSED BREAKER—LIST PRICE BREAKER AND ENCLOSURE						
	Cat. No.	List Price	NEMA 1 Indoor, Surface	NEMA 1A Semi-Dusttight	NEMA 3 Outdoor, Raintight	NEMA 4, 5, 9 Watertight, Combus. Dust	NEMA 7 Flammable Gas	NEMA 12 Lint, Dust, Oils	
E FRAME			Enclosure Suffix→	EE1	EE1A	EE3	EE9-50 EE9	EE7-50 EE7	EE12
1 POLE				120 VOLT AC			125 VOLT DC		
15	EE1-B015	\$11.50							
20	EE1-B020								
30	EE1-B030								
40	EE1-B040								
50	EE1-B050								
70	EE1-B070	23.10							
90	EE1-B090								
100	EE1-B100								
2 POLE				240 VOLT AC			125/250 VOLT DC		
15	EE2-B015	29.00							
20	EE2-B020								
30	EE2-B030			\$42.	\$51.	\$65.	\$108.	\$112.	\$51.
40	EE2-B040								
50	EE2-B050								
70	EE2-B070	47.00							
90	EE2-B090			60.	69.	83.	139.	162.	69.
100	EE2-B100								
100	EE2-S100	29.00	42.	51.	65.	121.	144.	51.	
3 POLE				240 VOLT AC					
15	EE3-B015	42.00							
20	EE3-B020								
30	EE3-B030			55.	64.	78.	121.	125.	64.
40	EE3-B040								
50	EE3-B050								
70	EE3-B070	62.00							
90	EE3-B090			75.	84.	98.	154.	177.	84.
100	EE3-B100								
100	EE3-S100	42.00	55.	64.	78.	134.	157.	64.	



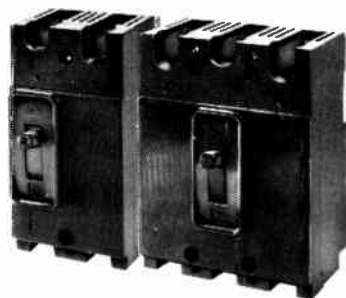
E

Rating Amperes	Cat. No.	List Price	Enclosure Suffix→	ENCLOSED BREAKER—LIST PRICE BREAKER AND ENCLOSURE					
				EE1	EE1A	EE3	EE9-50 EE9	EE7-50 EE7	EE12
EH FRAME				480 VOLT AC			250 VOLT DC		
2 POLE									
15	EH2-B015	\$53.							
20	EH2-B020								
30	EH2-B030			\$66.	\$75.	\$89.	\$132.	\$136.	\$75.
40	EH2-B040								
50	EH2-B050								
70	EH2-B070	67.							
90	EH2-B090			80.	89.	103.	159.	182.	89.
100	EH2-B100								
100	EH2-S100	47.	60.	69.	83.	139.	162.	69.	
3 POLE				480 VOLT AC					
15	EH3-B015	67.							
20	EH3-B020								
30	EH3-B030			80.	89.	103.	146.	150.	89.
40	EH3-B040								
50	EH3-B050								
70	EH3-B070	81.							
90	EH3-B090			94.	103.	117.	173.	196.	103.
100	EH3-B100								
100	EH3-S100	62.	75.	84.	98.	154.	177.	84.	



EH

Rating Amperes	Cat. No.	List Price	Enclosure Suffix→	ENCLOSED BREAKER—LIST PRICE BREAKER AND ENCLOSURE					
				EE1	EE1A	EE3	EE9-50 EE9	EE7-50 EE7	EE12
EF FRAME				600 VOLT AC			250 VOLT DC		
2 POLE									
15	EF2-B015	62.							
20	EF2-B020								
30	EF2-B030			75.	84.	98.	141.	145.	84.
40	EF2-B040								
50	EF2-B050								
70	EF2-B070	78.							
90	EF2-B090			91.	100.	114.	170.	193.	100.
100	EF2-B100								
100	EF2-S100	62.	75.	84.	98.	154.	177.	84.	
3 POLE				600 VOLT AC					
15	EF3-B015	79.							
20	EF3-B020								
30	EF3-B030			92.	101.	115.	158.	162.	101.
40	EF3-B040								
50	EF3-B050								
70	EF3-B070	96.							
90	EF3-BC90			109.	118.	132.	188.	211.	118.
100	EF3-B100								
100	EF3-S100	79.	92.	101.	115.	171.	194.	101.	



EF

The Above Items Are Subject to 50% Discount

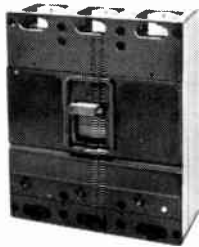
**I-T-E MOLDED-CASE CIRCUIT BREAKERS
ET[®] HEAVY DUTY**

FJ—225A, JJ, JKL—400A



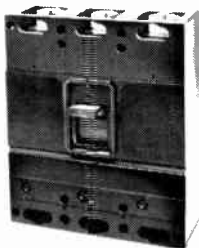
FJ

(2 or 3 Pole)
Non-Interchangeable Trip



JJ

(2 or 3 Pole)
Non-Interchangeable Trip



JKL

(2 or 3 Pole)
Interchangeable Trip

Rating Amperes	Instantaneous Trip Range		COMPLETE BREAKER, UNENCLOSED		ENCLOSED BREAKER—LIST PRICE BREAKER AND ENCLOSURE						
	Min.	Max.	Cat. No.	List Price	NEMA 1 Indoor, Surface	NEMA 1A Semi-Dusttight	NEMA 3 Outdoor, Raintight	NEMA 4, 5, 9 Watertight Combust. Dust	NEMA 7 Flammable Gas	NEMA 12 Lint, Dust, Oils	
FJ FRAME—225 AMPERE					Enclosure Suffix→	FJ1	FJ1A	FJ3	FJ9	FJ7	FJ12
2 POLE						600 VOLT AC			250 VOLT DC		
70	750	1600	FJ2-B070	\$175.	\$191.	\$211.	\$228.	\$371.	\$441.	\$211.	
90	750	1600	FJ2-B090								
100	750	1600	FJ2-B100								
125	750	1600	FJ2-B125								
150	750	1600	FJ2-B150	139.	155.	175.	192.	335.	405.	175.	
175	750	1600	FJ2-B175								
200	960	2000	FJ2-B200								
225	960	2000	FJ2-B225								
225	—	—	FJ2-S225								
3 POLE						600 VOLT AC					
70	750	1600	FJ3-B070	216.	232.	252.	269.	412.	482.	254.	
90	750	1600	FJ3-B090								
100	750	1600	FJ3-B100								
125	750	1600	FJ3-B125								
150	750	1600	FJ3-B150	175.	191.	211.	228.	371.	441.	211.	
175	750	1600	FJ3-B175								
200	960	2000	FJ3-B200								
225	960	2000	FJ3-B225								
225	—	—	FJ3-S225								
JJ FRAME—400 AMPERE					Enclosure Suffix→	JL1	JL1A	JL3	JL9	JL7	JL12
2 POLE						600 VOLT AC			250 VOLT DC		
250	1050	2250	JJ2-B250	309.	332.	373.	430.	701.	908.	373.	
300	1050	2250	JJ2-B300								
350	1900	3500	JJ2-B350								
400	1900	3500	JJ2-B400								
400	—	—	JJ2-S400	234.	257.	298.	355.	626.	833.	298.	
3 POLE						600 VOLT AC					
250	1050	2250	JJ3-B250	375.	398.	439.	496.	767.	974.	439.	
300	1050	2250	JJ3-B300								
350	1900	3500	JJ3-B350								
400	1900	3500	JJ3-B400								
400	—	—	JJ3-S400	281.	304.	345.	402.	673.	880.	345.	
JKL FRAME					Enclosure Suffix→	JL1	JL1A	JL3	JL9	JL7	JL12
2 POLE						600 VOLTS AC			250 VOLT DC		
70	750	1600	JL2-B070	\$213.	\$236.	\$277.	324.	\$605.	\$812.	\$277.	
90	750	1600	JL2-B090								
100	750	1600	JL2-B100								
125	750	1600	JL2-B125								
150	750	1600	JL2-B150	340.	363.	404.	461.	732.	939.	404.	
175	750	1600	JL2-B175								
200	960	2000	JL2-B200								
225	960	2000	JL2-B225								
250	1050	2250	JL2-B250	412.	435.	476.	533.	804.	1011.	476.	
300	1050	2250	JL2-B300								
350	1900	3500	JL2-B350								
400	1900	3500	JL2-B400								
3 POLE						600 VOLT AC					
70	750	1600	JL3-B070	266.	289.	330.	387.	658.	865.	330.	
90	750	1600	JL3-B090								
100	750	1600	JL3-B100								
125	750	1600	JL3-B125								
150	750	1600	JL3-B150	412.	435.	476.	533.	804.	1011.	476.	
175	750	1600	JL3-B175								
200	960	2000	JL3-B200								
225	960	2000	JL3-B225								
250	1050	2250	JL3-B250	412.	435.	476.	533.	804.	1011.	476.	
300	1050	2250	JL3-B300								
350	1900	3500	JL3-B350								
400	1900	3500	JL3-B400								

The Above Items Are Subject to 50% Discount

**I-T-E MOLDED-CASE CIRCUIT BREAKERS
ET® HEAVY DUTY**



KM
2 or 3 Pole



KP
3 Pole

Also available:
ET-H Extra-Heavy-Duty Circuit Breakers
HF-100A, HJKL-400A, HLM-800A, HP-1600A, HR-2000A
ET-C CORDON® Current-Limiting Circuit Breakers
CE, CF-100A, CJKL-400A, CM-800A, CP-1600A, CR-2000A

KM-800A, KP-1200A

Ratings Ampere	Instantaneous Trip Range		COMPLETE BREAKER UNENCLOSED		ENCLOSED BREAKER—LIST PRICE BREAKER AND ENCLOSURE												
	Min.	Max.	Cat. No.	List Price	NEMA 1 Indoor Surface	NEMA 1A Semi- Dusttight	NEMA 3 Outdoor Raintight	NEMA 4, 5, 9 Watertight Combust. Dust	NEMA 7 Flammable Gas	NEMA 12 Lint, Dust Oils							
KM FRAME																	
			Enclosure Suffix →		KM1	KM1A	KM3	KM9	KM7	KM12							
2 POLE																	
600 VOLT AC 250 VOLT DC																	
250 300	1050	2250	KM2-B250 KM2-B300	\$516.	\$558.	\$637.	\$673.	\$1134.	\$1271.	\$637.							
350 400 500 600	1900	3500	KM2-B350 KM2-B400 KM2-B500 KM2-B600														
700 800	3200	5600	KM2-B700 KM2-B800								673.	715.	794.	830.	1291.	1428.	794.
800	—	—	KM2-S800								396.	438.	517.	553.	1014.	1151.	517.
3 POLE																	
600 VOLT AC																	
250 300	1050	2250	KM3-B250 KM3-B300	655.	697.	776.	812.	1273.	1410.	776.							
350 400 500 600	1900	3500	KM3-B350 KM3-B400 KM3-B500 KM3-B600														
700 800	3200	5600	KM3-B700 KM3-B800								865.	907.	986.	1022.	1483.	1620.	986.
800	—	—	KM3-S800								502.	544.	623.	659.	1120.	1257.	623.
KP FRAME																	
			Enclosure Suffix →		KP1	KP1A	—	—	—	—							
3 POLE																	
600 VOLT AC																	
800 1000 1200	3200 4000 4000	5600 8000 8000	KP3-B800 KP3-B100 KP3-B120	1071. 1102. 1494.	1113. 1144. 1536.	1192. 1223. 1615.	— — —	— — —	— — —	— — —							
1200	—	—	KP3-S120	762.	804.	883.	—	—	—	—							

ACCESSORIES, MODIFICATIONS

Description	List Price
Auxiliary Switches—QJ, All ET, ET-H, ET-C Breakers For remote indication of opened or closed breaker "A" contacts are closed when breaker is closed. "B" contacts are open when breaker is closed. EQ-B, QJ Specify "A" and/or "B" contacts* ET, ET-H, ET-C Specify "A" and/or "B" contacts	\$10.00 27.00
Alarm Switch—All ET, ET-H, ET-C Breakers For remote indication when breaker is tripped automatically.	27.00

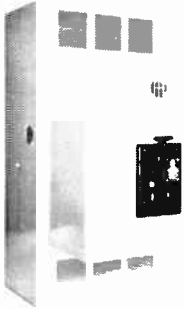
* For EQ-B auxiliary switches with "A" and "B" contacts, add \$5.00 to list price.

Description	List Price
Shunt Trip—EQ-B 3-Pole, QJ, All 3-Pole ET, ET-H, ET-C Breakers For remote tripping of breaker. Includes cut-off switch. Specify control voltage. EQ-B (coils rated 120 or 240 volts ac)..... QJ-3 Pole Only (Coils rated 120 or 240 volts ac; 24, 48, 125 or 250 volts dc)..... ET, ET-H, ET-C—3 Pole Only (Coils rated 120, 240, 480 or 600 volts ac; 24, 48, 125 or 250 volts dc).....	\$15.00 31.00 66.00
Undervoltage Trip—All 2- and 3-Pole ET, ET-H, ET-C Breakers Automatically trips breaker when voltage is reduced to 30%—60% of coil rating. Specify control voltage. ET, ET-H, ET-C—2 and 3 Pole (Coils rated 120, 240, 480 or 600 volts ac; 24, 48, 125 or 250 volts dc).....	66.00
Kirk Key Interlock To coordinate opening and closing of several enclosed breakers.	176.00

The Above Items Are Subject to 50% Discount

I-T-E LOW-VOLTAGE AIR POWER CIRCUIT BREAKERS

URELITE® INDIVIDUALLY ENCLOSED K-LINE® BREAKERS



K-1600

FEATURES:

- Drawout Construction *
- Quick-Make, Quick-Break Operation *
- Visible Break Disconnect Contacts *
- Larger, More Accessible Cable Box *
- Expanded Over-current Trip Calibrations

Also available:
 K-DON Current-Limiting Circuit Breakers
 KSP Current-Limiting Service Protectors

Rating Amperes	MANUALLY OPERATED—NET PRICE				ELECTRICALLY OPERATED—NET PRICE			
	Basic Cat. No.	General Purpose G*	Dustproof D	Weatherproof W	Basic Cat. No.	General Purpose G	Dustproof D	Weatherproof W
K-225 225 AMPERE								
2 POLE								
15-20 30-40 50-70 90-125 150-225	1214-0000-302 1214-0000-304 1214-0000-307 1214-0000-312 1214-0000-322	\$545.	\$585.	\$720.	1214-1111-302 1214-1111-304 1214-1111-307 1214-1111-312 1214-1111-322	\$820.	\$860.	\$995.
3 POLE								
15-20 30-40 50-70 90-125 150-225	1213-0000-302 1213-0000-304 1213-0000-307 1213-0000-312 1213-0000-322	605.	645.	780.	1213-1111-302 1213-1111-304 1213-1111-307 1213-1111-312 1213-1111-322	910.	950.	1085.
K-600 600 AMPERE								
2 POLE								
30-40 50-70 90-125	1224-0000-304 1224-0000-307 1224-0000-312	660.	700.	835.	1224-1111-304 1224-1111-307 1224-1111-312	930.	970.	1105.
150-225 250-400 500-600	1224-0000-322 1224-0000-340 1224-0000-360				1224-1111-322 1224-1111-340 1224-1111-360			
3 POLE								
30-40 50-70 90-125	1223-0000-304 1223-0000-307 1223-0000-312	735.	775.	910.	1223-1111-304 1223-1111-307 1223-1111-312	1035.	1075.	1210.
150-225 250-400 500-600	1223-0000-322 1223-0000-340 1223-0000-360				1223-1111-322 1223-1111-340 1223-1111-360			
K-1600 1600 AMPERE								
2 POLE								
150-225 250-400 500-800 1000-1600	1234-0000-322 1234-0000-340 1234-0000-380 1234-0000-316	1635.	1715.	2035.	1234-1111-322 1234-1111-340 1234-1111-380 1234-1111-316	2210.	2290.	2610.
3 POLE								
150-225 250-400 500-800 1000-1600	1233-0000-322 1233-0000-340 1233-0000-380 1233-0000-316	1815.	1895.	2215.	1233-1111-322 1233-1111-340 1233-1111-380 1233-1111-316	2460.	2540.	2860.
K-3000 3000 AMPERE								
2 POLE								
2000-3000	1254-0000-330	5115.	6270.	6270.	1254-1111-330	5115.	6270.	6270.
3 POLE								
2000-3000	1253-0000-330	5610.	6765.	6765.	1254-1111-330	5610.	6765.	6765.
K-4000 4000 AMPERE								
2 POLE								
4000	1264-0000-340	7325.	8565.	8565.	1264-1111-340	7325.	8565.	8565.
3 POLE								
4000	1263-0000-340	8040.	9280.	9280.	1264-1111-340	8040.	9280.	9280.

Prices On The Above Items Are Net

COIL RATINGS

Breaker Types	K-225	K-225 K-600	K-225 K-600	K-225 K-600	K-225 K-600 K-1600	K-600 K-1600	K-600	K-1600	K-1600	K-3000	K-4000
I-T-E maximum continuous coil ratings (amperes)	20	40	70	125	225	400	600	800	1600	3000	4000
I-T-E adjustable long time delay between these pickup points	12 25	20 50	40 90	70 160	120 285	250 500	400 750	400 1000	800 2000	1600 3800	2000 5000
I-T-E adjustable instantaneous between these pickup points	75 300	150 600	250 1100	450 1900	750 3400	1250 6000	2500 9000	2500 12,000	5000 24,000	10,000 36,000	20,000 48,000

I-T-E LOW-VOLTAGE POWER CIRCUIT BREAKERS

Urelite® Individually Enclosed Low-Voltage Power Circuit Breakers provide overcurrent protection of main and feeder circuits where interrupting requirements are from 14,000 to 200,000 amperes at 600 volts a-c. Their advanced design provides continuous trouble-free service, added safety and simplified maintenance.

Features:

Drawout Construction • Quick-Make, Quick-Break Operation • Visible Break Disconnect Contacts • Larger, More Accessible Cable Box • Expanded Overcurrent Trip Calibrations.

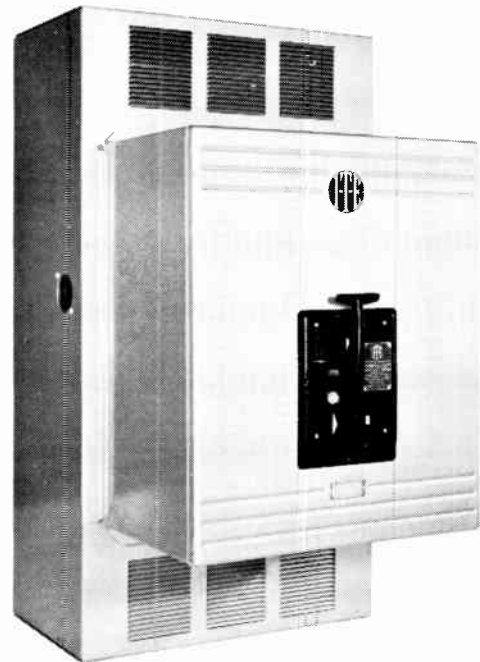
Includes:

For K-225, K-600, K-1600

- Basic Drawout Breaker, Manually or Electrically Operated.
- Disconnect Devices for Drawout Operation.
- Enclosure with Pullbox for Wall Mounting.
- Solderless Cable Connectors.

For K-3000, K-4000

- Basic Stationary Breaker, Manually or Electrically Operated.
- Pullbox with Removable Top, Bottom, Back and Side Plates.
- Front Enclosure.



K-1600

LOW-VOLTAGE POWER CIRCUIT BREAKER RATINGS

			K-225	K-600	K-1600	K-3000	K-4000
Ratings	Ampere Ratings, Continuous	AC	15-225	30-600	150-1600	2500-3000	4000
		DC	15-225	30-600	150-1600	2500-3000	4000
	Voltage Ratings	AC	600	600	600	600	600
		DC	250	250	250	250	250
	Interrupting Ratings Symmetrical RMS Amperes	600V AC	14,000	22,000	42,000	65,000	85,000
		480V AC	22,000	30,000	50,000	65,000	85,000
		240V AC	25,000	42,000	65,000	85,000	130,000
	Interrupting Ratings	250V DC	15,000	25,000	50,000	75,000	100,000

I-T-E MOLDED-CASE CIRCUIT BREAKERS

CIRCUIT BREAKER CLASSIFICATION—FEDERAL SPECIFICATION W-C-375a, Amended February 18, 1965

Breaker Frame	Class	Poles	Rating—Amperes	INTERRUPTING RATING*				
				AC			DC	
				Volts	Symmetrical Rms Amperes	Asymmetrical Rms Amperes	Volts	Amperes
EQ-T, EQ-P, EQ-8 EQ-P-EQ-B	1a**	1 or 2 2 or 3	15-100	120/240 240	5,000 10,000	5,000	—	—
E	2a 2b 2c	1 1 2 or 3		277 120 240	10,000 7,500 7,500	10,000 7,500 7,500	125 125/250	5,000 5,000
EF, EH [▲]	2d	2 or 3	15-100	240 480 600	18,000 14,000 14,000	20,000 15,000 15,000	250	10,000
FJ	3a	2 or 3	70-225	240 480 600	22,000 18,000 14,000	25,000 20,000 15,000		
JKL	3b		70-100	240 480 600	25,000 22,000 22,000	30,000 25,000 25,000		
JKL, JJ	4b		125-400	240 480 600	42,000 30,000 22,000	50,000 35,000 25,000		
KM	5a		250-800	240 480 600	42,000 30,000 22,000	50,000 35,000 25,000		
HF	2f		15-100	240	65,000	75,000			250	10,000
HJKL	3d		70-225	480	35,000	40,000		
HLM	4c	125-400	600	25,000	30,000			
CF	5b	125-800	2 or 3	240 480 600	200,000 100,000 100,000	100,000	250	100,000
CJKL	2e	15-100						
4a	70-225							
6	125-400							
CM	3c	2 or 3	125-600	240	100,000	100,000	250	100,000

* Based on NEMA test procedures. UL ratings 5,000 amperes for EQ-T, EQ-P, EQ-8; 10,000 amperes for all other breakers, including QJ.

** Single-unit (EQ-P or EQ-8) or dual (EQ-T) construction must be specified.
▲ Meets Class 2d specifications, except rated 480 volts ac.

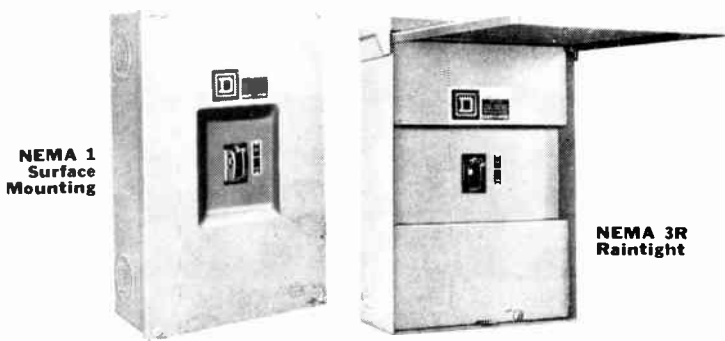
SQUARE D ENCLOSED CIRCUIT BREAKERS

NEMA I and NEMA 3R enclosed circuit breakers are UL listed as service equipment. Circuit breakers are quick-make, quick-break with thermal magnetic trip elements. Types A1, FA, KA and LA have permanently calibrated integral trip units and meet Federal Specifications W-C-375a.

Devices are UL listed under File E-10027. Terminal lugs are suitable for copper or aluminum cables. Finish is blue-gray baked enamel.

Units are shipped separately as a complete enclosure and a unit breaker.

Insulated groundable neutrals, if required, must be ordered separately for all devices not indicated with a solid neutral.



System	Ampere Rating	NEMA 1 Service Entrance Indoor		NEMA 3R Service Entrance Raintight		NEMA Type 1 Dust-resisting With Gasket		NEMA 12 Cover Gasket Without Knockouts	
		Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price

100 A. FRAME — 240 V. AC

TYPE A1

TYPE FA PERMANENT TRIP

 2-WIRE S/M 120 V. AC 125 V. DC	15	A1E 115 F or S	\$ 24.80	A1E 115 RB	\$ 47.40	.....	.....	.....	.....
	20	A1E 120 F or S	24.80	A1E 120 RB	47.40	.....	.....	.....	.....
	30	A1E 130 F or S	24.80	A1E 130 RB	47.40	.....	.....	.....	.....
	40	A1E 140 F or S	24.80	A1E 140 RB	47.40	.....	.....	.....	.....
	50	A1E 150 F or S	24.80	A1E 150 RB	47.40	.....	.....	.....	.....
	± 50	.....	.....	.....	.....	.....	.....	.....	.....
 3-WIRE S/M 120/240 V. AC 125/250 V. DC	15	A1E 215 F or S	42.40	A1E 215 RB	65.00	FAE 22015 NG	\$ 50.00	FAE 22015 NAWK	\$ 50.00
	20	A1E 220 F or S	42.40	A1E 220 RB	65.00	FAE 22020 NG	50.00	FAE 22020 NAWK	50.00
	30	A1E 230 F or S	42.40	A1E 230 RB	65.00	FAE 22030 NG	50.00	FAE 22030 NAWK	50.00
	40	A1E 240 F or S	42.40	A1E 240 RB	65.00	FAE 22040 NG	50.00	FAE 22040 NAWK	50.00
	50	A1E 250 F or S	42.40	A1E 250 RB	65.00	FAE 22050 NG	50.00	FAE 22050 NAWK	50.00
	70	A1E 270 F or S	60.40	A1E 270 RB	83.00	FAE 22070 NG	69.00	FAE 22070 NAWK	69.00
 4-WIRE S/M 240 V. AC 125/250 V. DC	15	A1E 315 F or S	55.40	A1E 315 RB	78.00	FAE 32015 NG	64.00	FAE 32015 NAWK	64.00
	20	A1E 320 F or S	55.40	A1E 320 RB	78.00	FAE 32020 NG	64.00	FAE 32020 NAWK	64.00
	30	A1E 330 F or S	55.40	A1E 330 RB	78.00	FAE 32030 NG	64.00	FAE 32030 NAWK	64.00
	40	A1E 340 F or S	55.40	A1E 340 RB	78.00	FAE 32040 NG	64.00	FAE 32040 NAWK	64.00
	50	A1E 350 F or S	55.40	A1E 350 RB	78.00	FAE 32050 NG	64.00	FAE 32050 NAWK	64.00
	70	A1E 370 F or S	75.40	A1E 370 RB	98.00	FAE 32070 NG	83.00	FAE 32070 NAWK	83.00
100	A1E 3100 F or S	75.40	A1E 3100 RB	98.00	FAE 32100 NG	83.00	FAE 32100 NAWK	83.00	
100 Non-Auto.	.....	.....	.....	.....	.....	FAE 22000 NG	50.00	FAE 22000 NAWK	50.00

100 A. FRAME — 480 V. AC

TYPE FA

PERMANENT TRIP

 3-WIRE S/M 480 V. AC	15	FAE 24015 NF or NS	\$ 66.00	FAE 24015 NRB	\$ 89.00	FAE 24015 NG	\$ 74.00	FAE 24015 NAWK	\$ 74.00
	20	FAE 24020 NF or NS	66.00	FAE 24020 NRB	89.00	FAE 24020 NG	74.00	FAE 24020 NAWK	74.00
	30	FAE 24030 NF or NS	66.00	FAE 24030 NRB	89.00	FAE 24030 NG	74.00	FAE 24030 NAWK	74.00
	40	FAE 24040 NF or NS	66.00	FAE 24040 NRB	89.00	FAE 24040 NG	74.00	FAE 24040 NAWK	74.00
	50	FAE 24050 NF or NS	66.00	FAE 24050 NRB	89.00	FAE 24050 NG	74.00	FAE 24050 NAWK	74.00
	70	FAE 24070 NF or NS	80.00	FAE 24070 NRB	103.00	FAE 24070 NG	89.00	FAE 24070 NAWK	89.00
100	FAE 24100 NF or NS	80.00	FAE 24100 NRB	103.00	FAE 24100 NG	89.00	FAE 24100 NAWK	89.00	
100 Non-Auto.	.....	.....	.....	.....	.....	FAE 24000 NG	69.00	FAE 24000 NAWK	69.00
 4-WIRE S/M 277/480 V. AC	15	FAE 34015 NF or NS	80.00	FAE 34015 NRB	103.00	FAE 34015 NG	89.00	FAE 34015 NAWK	89.00
	20	FAE 34020 NF or NS	80.00	FAE 34020 NRB	103.00	FAE 34020 NG	89.00	FAE 34020 NAWK	89.00
	30	FAE 34030 NF or NS	80.00	FAE 34030 NRB	103.00	FAE 34030 NG	89.00	FAE 34030 NAWK	89.00
	40	FAE 34040 NF or NS	80.00	FAE 34040 NRB	103.00	FAE 34040 NG	89.00	FAE 34040 NAWK	89.00
	50	FAE 34050 NF or NS	80.00	FAE 34050 NRB	103.00	FAE 34050 NG	89.00	FAE 34050 NAWK	89.00
	70	FAE 34070 NF or NS	95.00	FAE 34070 NRB	117.00	FAE 34070 NG	103.00	FAE 34070 NAWK	103.00
100	FAE 34100 NF or NS	95.00	FAE 34100 NRB	117.00	FAE 34100 NG	103.00	FAE 34100 NAWK	103.00	
100 Non-Auto.	.....	.....	.....	.....	.....	FAE 34000 NG	83.00	FAE 34000 NAWK	83.00

100 A. FRAME — 600 V. AC

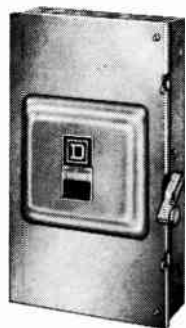
TYPE FA

PERMANENT TRIP

 2-POLE 600 V. AC 250 V. DC	15	FAE 26015 F or S	\$ 75.00	FAE 26015 RB	\$ 98.00	FAE 26015 G	\$ 89.00	FAE 26015 AWK	\$ 89.00
	20	FAE 26020 F or S	75.00	FAE 26020 RB	98.00	FAE 26020 G	89.00	FAE 26020 AWK	89.00
	30	FAE 26030 F or S	75.00	FAE 26030 RB	98.00	FAE 26030 G	89.00	FAE 26030 AWK	89.00
	40	FAE 26040 F or S	75.00	FAE 26040 RB	98.00	FAE 26040 G	89.00	FAE 26040 AWK	89.00
	50	FAE 26050 F or S	75.00	FAE 26050 RB	98.00	FAE 26050 G	89.00	FAE 26050 AWK	89.00
	70	FAE 26070 F or S	92.00	FAE 26070 RB	114.00	FAE 26070 G	105.00	FAE 26070 AWK	105.00
100	FAE 26100 F or S	92.00	FAE 26100 RB	114.00	FAE 26100 G	105.00	FAE 26100 AWK	105.00	
100 Non-Auto.	.....	.....	.....	.....	.....	FAE 26000 G	89.00	FAE 26000 AWK	89.00
 3-POLE 600 V. AC	15	FAE 36015 F or S	93.00	FAE 36015 RB	115.00	FAE 36015 G	106.00	FAE 36015 AWK	106.00
	20	FAE 36020 F or S	93.00	FAE 36020 RB	115.00	FAE 36020 G	106.00	FAE 36020 AWK	106.00
	30	FAE 36030 F or S	93.00	FAE 36030 RB	115.00	FAE 36030 G	106.00	FAE 36030 AWK	106.00
	40	FAE 36040 F or S	93.00	FAE 36040 RB	115.00	FAE 36040 G	106.00	FAE 36040 AWK	106.00
	50	FAE 36050 F or S	93.00	FAE 36050 RB	115.00	FAE 36050 G	106.00	FAE 36050 AWK	106.00
	70	FAE 36070 F or S	109.00	FAE 36070 RB	132.00	FAE 36070 G	123.00	FAE 36070 AWK	123.00
100	FAE 36100 F or S	109.00	FAE 36100 RB	132.00	FAE 36100 G	123.00	FAE 36100 AWK	123.00	
100 Non-Auto.	.....	.....	.....	.....	.....	FAE 36000 G	106.00	FAE 36000 AWK	106.00

The above items are subject to 50% Discount.

SQUARE D ENCLOSED CIRCUIT BREAKERS



NEMA 1 with Gasket



NEMA 12

NEMA I and NEMA 12 industrial enclosed circuit breakers utilize Type FA, KA and LA unit breakers with an integral permanently calibrated trip unit. MA devices have an interchangeable trip unit.

NEMA 12 enclosures meet JIC and all other industrial specifications. These devices utilize the same single stroke, interlocked, cover sealing mechanism as is used on NEMA 12 safety switches. The red and black handle is an integral part of the box not the cover. Positive tripped indication is provided by fluorescent indicator thru a window in the cover.

System	Ampere Rating	NEMA 1 Service Entrance Indoor		NEMA 3R Service Entrance Raintight		NEMA Type 1 Dust-resisting With Gasket		NEMA 12 Cover Gasket Without Knockouts		
		Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	
225 A. FRAME — 600 V. AC										
TYPE KA										
PERMANENT TRIP										
<p>2-POLE 600 V. AC 250 V. DC</p>	125	KAE 26125 F or S	\$192.00	KAE 26125 RB	\$228.00	KAE 26125 G	\$211.00	KAE 26125 AWK	\$211.00	
	150	KAE 26150 F or S	192.00	KAE 26150 RB	228.00	KAE 26150 G	211.00	KAE 26150 AWK	211.00	
	175	KAE 26175 F or S	192.00	KAE 26175 RB	228.00	KAE 26175 G	211.00	KAE 26175 AWK	211.00	
	200	KAE 26200 F or S	192.00	KAE 26200 RB	228.00	KAE 26200 G	211.00	KAE 26200 AWK	211.00	
	225	KAE 26225 F or S	192.00	KAE 26225 RB	228.00	KAE 26225 G	211.00	KAE 26225 AWK	211.00	
250 V. DC	225 Non-Auto.	.....	.....	.....	.....	KAE 26000 G	175.00	KAE 26000 AWK	175.00
<p>3-POLE 600 V. AC</p>	125	KAE 36125 F or S	233.00	KAE 36125 RB	269.00	KAE 36125 G	252.00	KAE 36125 AWK	252.00	
	150	KAE 36150 F or S	233.00	KAE 36150 RB	269.00	KAE 36150 G	252.00	KAE 36150 AWK	252.00	
	175	KAE 36175 F or S	233.00	KAE 36175 RB	269.00	KAE 36175 G	252.00	KAE 36175 AWK	252.00	
	200	KAE 36200 F or S	233.00	KAE 36200 RB	269.00	KAE 36200 G	252.00	KAE 36200 AWK	252.00	
	225	KAE 36225 F or S	233.00	KAE 36225 RB	269.00	KAE 36225 G	252.00	KAE 36225 AWK	252.00	
600 V. AC	225 Non-Auto.	.....	.....	.....	.....	KAE 36000 G	211.00	KAE 36000 AWK	211.00
400 A. FRAME — 600 V. AC										
TYPE LA										
PERMANENT TRIP										
<p>2-POLE 600 V. AC 250 V. DC</p>	250	LAE 26250 F or S	\$332.00	LAE 26250 R	\$430.00	LAE 26250 G	\$373.00	LAE 26250 AWK	\$373.00	
	300	LAE 26300 F or S	332.00	LAE 26300 R	430.00	LAE 26300 G	373.00	LAE 26300 AWK	373.00	
	350	LAE 26350 F or S	332.00	LAE 26350 R	430.00	LAE 26350 G	373.00	LAE 26350 AWK	373.00	
	400	LAE 26400 F or S	332.00	LAE 26400 R	430.00	LAE 26400 G	373.00	LAE 26400 AWK	373.00	
	400 Non-Auto.	.....	.....	.....	.....	LAE 26000 G	298.00	LAE 26000 AWK	298.00
<p>3-POLE 600 V. AC</p>	250	LAE 36250 F or S	398.00	LAE 36250 R	495.00	LAE 36250 G	439.00	LAE 36250 AWK	439.00	
	300	LAE 36300 F or S	398.00	LAE 36300 R	495.00	LAE 36300 G	439.00	LAE 36300 AWK	439.00	
	350	LAE 36350 F or S	398.00	LAE 36350 R	495.00	LAE 36350 G	439.00	LAE 36350 AWK	439.00	
	400	LAE 36400 F or S	398.00	LAE 36400 R	495.00	LAE 36400 G	439.00	LAE 36400 AWK	439.00	
	400 Non-Auto.	.....	.....	.....	.....	LAE 36000 G	345.00	LAE 36000 AWK	345.00
800 A. FRAME — 600 V. AC										
TYPE MA										
<p>2-POLE 600 V. AC 250 V. DC</p>	500	MA 656 F or S	\$657.00	MA 656 R	\$673.00	MA 2500 G	\$637.00	.....	.....
	600	MA 666 F or S	657.00	MA 666 R	673.00	MA 2600 G	637.00	.....	.....
	*700	MA 676 F or S	714.00	MA 676 R	830.00	MA 2700 G	793.00	.....	.....
	*800	MA 686 F or S	714.00	MA 686 R	830.00	MA 2800 G	793.00	.....	.....
	†*900	MA 696 F or S	1038.00	MA 696 R	1162.00	.....	.....	.....	.....
	†*1000	MA 6106 F or S	1038.00	MA 6106 R	1162.00	.....	.....	.....	.....
	800 Non-Auto.	.....	.....	.....	.....	MA 2800 NG	516.00	.....	.....
	<p>3-POLE 600 V. AC</p>	500	MA 756 F or S	898.00	MA 756 R	812.00	MA 3500 G	776.00
		600	MA 766 F or S	898.00	MA 766 R	812.00	MA 3600 G	776.00
		*700	MA 776 F or S	936.00	MA 776 R	1022.00	MA 3700 G	986.00
*800		MA 786 F or S	936.00	MA 786 R	1022.00	MA 3800 G	986.00	.....	.....
†*900		MA 796 F or S	1185.00	MA 976 R	1308.00	.....	.....	.....	.....
†*1000		MA 7106 F or S	1185.00	MA 7106 R	1308.00	.....	.....	.....	.....
800 Non-Auto.		.....	.....	.....	.....	MA 3800 NG	622.00	.....	.....

Type RB devices are supplied with a removable bolt-on closing cap installed. Order bolt-on hub separately.

INSULATED GROUNDABLE NEUTRAL - Order Separately

Conduit Size Inches..	¾	1	1¼	1½	2	2½	Closing Cap
Hub Cat. No.....	B-075	B-100	B-125	B-150	B-200	B-250	B-Cap
Price Each.....	\$2.60	\$2.80	\$2.60	\$2.60	\$4.40	\$7.80	\$.20

Type	Amp. Rating	Catalog Number	Price
FA	100	100 SN	\$11.30
KA	225	225 SN	15.50

The above items are subject to 50% Discount.

GENERAL ELECTRIC CIRCUIT BREAKER AND FUSIBLE PANELBOARD SELECTION CHART

CIRCUIT BREAKER PANELBOARDS

Style.....	STYLE Q					STYLE NCP				STYLE CP
Type.....	DB4A Unassembled	NLTQ	NLTQX Column Type	NLAB	NLABX Column Type	NAB	NABX Column Type	NHB	NHBX Column Type	CCB
Maximum Voltage Rating.....	240 A-c	240 A-c	240 A-c	240 A-c	240 A-c	240 A-c or 125/250 D-c	240 A-c or 125/250 D-c	600 A-c or 250 D-c	600 A-c or 250 D-c	600 A-c or 250 D-c
Branch Circuits— Breaker Frame Type.....	TQL, TQAL, THQL, THQAL (Plug-in)	TQL, TQAL, THQL, THQAL (Plug-in) Sub-feeds ① TE, TQD, TFJ, TFK	TQL, THQL (Plug-in)	TQB, THQB (Bolt-in) Sub-feeds ① TE, TQD, TFJ, TFK	TQB, THQB (Bolt-in)	TE (Bolt-in) Sub-feeds ① TQD, TFJ, TFK	TE (Bolt-in)	TEF, TEF4, (Bolt-in) Sub-feeds ① TFJ, TFK	TEF, TEF4, TEF6 (Bolt-in)	TE thru THKM 12 (Bolt-in) Panel Motor Control Units
Main Lugs—Maximum Amperes...	600	600	225	600	225	600	225	600	225	1200
Main Circuit Breaker, Maximum Amperes.....	600	600	225	600	225	600	225	600	225	1200
For Information refer to General Electric Bulletin.....	GEA-6737	GEA-6737	.....	GEA-6737	.....	GEA-6738	.....	GEA-6738	.....	GEA-6739
U.S. Federal Specifications	Panelboards.....	<i>Type I, Class 1, per WP-115a Interim Amendment 1 (Aug. 26, 1964) except column types, which have smaller gutters. (Supersedes WP-131a)</i>								
	Circuit Breaker Only.....	<i>WC-375a, Interim Amendment 3, (Feb. 18, 1965).</i>								

① Bolt-in.

FUSIBLE PANELBOARDS

STYLE	CP
Type	QMR
Voltage Rating—Maximum	600 A-c; 250 D-c
Main Lugs Only—Amperes	200 thru 1200
Main Fusible Switch—Amperes	200 thru 1200
Branch Fusible Switch—Amperes	30 thru 1200
Panel Motor Control Units—Size and Type	#00 thru #4; FVNR and FVR
Box Width—Inches	35, 40
Federal Specifications: Panelboards.....	<i>Type II, Class 1, Per W-P-115a, Interim Amendment 1, Aug. 26, 1964. (Supersedes W-P-146.)</i>
Fusible Switches.....	<i>Type NDS, Per W-S-865a, Interim Amendment 1, Jan. 24, 1962. 2-pole Switches are Class 2, Design 2. 3-pole Switches are Class 3, Design 3.</i>

FUSIBLE SWITCH SHORT-CIRCUIT RATINGS

The maximum short-circuit interrupting rating of a General Electric Type QMR fused switch in symmetrical RMS amperes is:

- 25,000 with time-delay fuses.
- 25,000 with one-time fuses.
- 100,000 with time-delay current-limiting fuses.
- 200,000 with current-limiting fuses.

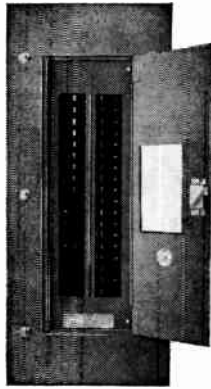
However if the interrupting rating of the fuse used is lower than that shown above, the interrupting rating of the fused switch will be the same as the fuse.

FUSIBLE SWITCH BRANCH CIRCUITS

Rating in Amperes		30A	60A	100A	200A	400A	600A	800A	1200A	
Terminal Lugs per Pole.....		1	1	1	1	1	2	2	3	
No. Wires and Range per Lug.....		1-(#14-10)	1-(#14-4)	1-(#14-1/0)	1-(#6-350 MCM)	1-(4/0-600 MCM) or 2-(250 MCM)	1-(4/0-600 MCM) or 2-(250 MCM)	1-(4/0-500 MCM)	1-(4/0-500 MCM)	
Type Wire.....		Cu	Cu—Al	Cu—Al	Cu—Al	Cu—Al	Cu—Al	Cu—Al	Cu	
① Max Hp	Volts	NEC	TD	NEC	TD	NEC	TD	NEC	TD	
	120 A-c	2	1½	2	1½	3	.....	.....	.....
	240 A-c	2	1½	3	3	10	5	15	10	15
		3	3	7½	5	20	10	30	25	60
	480 A-c	2	3	7½	5	20	10	30	25	50
		3	5	20	15	40	25	60	50	125
	600 A-c	2	3	10	10	25	15	40	30	50
		3	7½	25	15	50	30	75	60	150
125 D-c	2	2	3	5	5	.....	.....	.....	.....
250 D-c	2	5	5	10	10	15	20	30	40	

① U/L does not list ratings above 100 hp. Ratings based on 1965 NEC Article 430. NEC column is switch hp rating when used with min. time delay one-time fuses. TD column is max. switch hp rating and also the hp rating when time-delay type fuses are used.

GENERAL ELECTRIC PANELBOARDS
Type DB4A Style Q—Unassembled



WIRING SPACE—From End of Lug to Wall of Box in Inches

MAINS (To Top or Bottom Wall)							BRANCH CIRCUIT BREAKERS (To Side Wall of Box)			
Type Mains	Rating of Mains in Amperes					Amperes Rating	Type Cir. Bkr.	14-inch Wide Box	22-inch Wide Box	
	50	100	225	400	600					
Main Lugs Only	5 1/4	5 1/4	4 7/8	10 5/16	10 5/16	10-50	TQL	4	8	
Main Cir Bkr	Type	TQC	TQC	TQD	TJJ	TJK6	60-100	TQAL		
	Space	6 1/2	6 1/2	6 1/16	8 1/8	8 1/8				
Neutral	5 5/8	5 5/8	5	8 1/16	8 1/16					

WITH MAIN LUGS ONLY

WITH MAIN CIRCUIT BREAKERS—VERTICALLY MOUNTED
(At Bottom Except as Noted)

No. of Pole Cirs	Main Amp	Complete (Less Breakers)	Box and Interior (Less Breakers)		Front Only		Box Height in Inches	No. of Pole Cirs	Main Amp	Complete (Less Breakers)	Box and Interior (Less Breakers)		Front Only		Box Height in Inches
		List Each	List Each	Catalog Number	List Each	Catalog Number				List Each	List Each	Catalog Number	List Each	Catalog Number	

Single-Phase, 3-Wire, 120/240 Volts A-C—Panel Box is 14 inches Wide x 4 1/2 inches Deep

12	100	\$83	\$67	DB4A312LE	\$16	DA140721	21 1/2	10	50	\$92	\$67	DB4A310BE	\$25	DA140727	27 1/2
18	100	92	69	DB4A318LE	23	DA140724	24 1/2	12	100	106	81	DB4A312BE	25	DA140727	27 1/2
18	225	97	74	DB4A318L2E	23	DA140724	24 1/2	18	100	115	89	DB4A318BE	26	DA140730	30 1/2
20	100	95	70	DB4A320LE	25	DA140727	27 1/2	18	225	284	256	DB4A318B2E	28	DA140733	33 1/2
24	225	106	81	DB4A324LE	25	DA140727	27 1/2	20	100	118	90	DB4A320BE	28	DA140733	33 1/2
30	225	115	89	DB4A330LE	26	DA140730	30 1/2	24	225	293	262	DB4A324BE	31	DA140736	36 1/2
36	225	124	96	DB4A336LE	28	DA140733	33 1/2	30	225	302	269	DB4A330BE	33	DA140739	39 1/2
42	225	133	102	DB4A342LE	31	DA140736	36 1/2	36	225	311	274	DB4A336BE	37	DA140742	42 1/2
								42	225	320	277	DB4A342BE	43	DA140745	45 1/2

Single-Phase, 3-Wire, 120/240 Volts A-C—Panel Box is 22 inches Wide x 5 3/4 inches Deep

30	400	\$170	\$118	DB4A330L4E	\$52	DA220742	42 1/2	30	400	\$543	\$480	DB4A330B4E	\$63	DA220753	53 1/2
42	400	188	128	DB4A342L4E	60	DA220750	50 3/4	42	400	561	492	DB4A342B4E	69	DA220759	59
42	600	218	155	DB4A342L6E	63	DA220753	53 1/2	42	600	818	749	DB4A342B6E	69	DA220759	59
54	400	206	140	DB4A354L4E	66	DA220756	56 1/4	54	400	579	489	DB4A354B4E	90	DA220764	64 1/2
54	600	236	167	DB4A354L6E	69	DA220759	59	54	600	836	746	DB4A354B6E	90	DA220764	64 1/2

3-Phase, 4-Wire, 208Y/120 Volts A-C—Panel Box is 14 inches Wide x 4 1/2 inches Deep

12	100	\$93	\$77	DB4A412LE	\$16	DA140721	21 1/2	12	50	\$124	\$99	DB4A412BE	\$25	DA140727	27 1/2
18	100	102	79	DB4A418LE	23	DA140724	24 1/2	18	100	143	117	DB4A418BE	26	DA140730	30 1/2
18	225	107	84	DB4A418L2E	23	DA140724	24 1/2	18	225	345	317	DB4A418B2E	28	DA140733	33 1/2
20	100	105	80	DB4A420LE	25	DA140727	27 1/2								
24	100	111	86	DB4A424LE	25	DA140727	27 1/2	24	100	152	124	DB4A424BE	28	DA140733	33 1/2
30	100	120	94	DB4A430LE	26	DA140730	30 1/2	30	100	161	130	DB4A430BE	31	DA140736	36 1/2
30	225	125	99	DB4A430L2E	26	DA140730	30 1/2	30	225	363	330	DB4A430B2E	33	DA140739	39 1/2
36	225	134	106	DB4A436LE	28	DA140733	33 1/2	36	225	372	335	DB4A436BE	37	DA140742	42 1/2
42	225	143	112	DB4A442LE	31	DA140736	36 1/2	42	225	381	338	DB4A442BE	43	DA140745	45 1/2

3-Phase, 4-Wire, 208Y/120 Volts A-C—Panel Box is 22 inches Wide x 5 3/4 inches Deep

30	400	\$190	\$138	DB4A442L4E	\$52	DA220742	42 1/2	30	400	\$649	\$586	DB4A442B4E	\$63	DA220753	53 1/2
42	400	208	148	DB4A442L6E	60	DA220750	50 3/4	42	400	667	598	DB4A442B6E	69	DA220759	59
42	600	248	185	DB4A442L6E	63	DA220753	53 1/2	42	600	1017	948	DB4A442B6E	69	DA220759	59
54	400	226	160	DB4A454L4E	66	DA220756	56 1/4	54	400	685	595	DB4A454B4E	90	DA220764	64 1/2
54	600	266	197	DB4A454L6E	69	DA220759	59	54	600	1035	945	DB4A454B6E	90	DA220764	64 1/2

① Four blank fillers are included at no charge in each assembly. For additional fillers see footnote ②.
 ② For front Cat. No. add Suffix "F" for Flush or "S" for Surface Mounting.
 ③ Blank fillers Cat. No. 75C140045G703, \$0.25 list each. Also used to replace single-pole circuit breaker.
 ④ Main Circuit Breaker for top mounting.
 ⑤ 100-ampere Dual Lug Kit Cat. No. 75C140063G701, \$17 list each. Consists of neutral and three sub-feed lugs (#14-2/0 Cu-AL) with hardware for mounting beside main lugs on panelboards with 100- and 225-ampere main lugs only.

NOTE: No modifications available for these panels.

TYPE TQL AND TQAL PLUG-IN BRANCH BREAKERS, CONVENTIONAL TYPE

Rating in Amps	Type Frame	Single-pole 120-volt A-c X Height = 1X		2-wire, Switching Neutral 120-volt A-c X Height = 2X		2-pole 120/240-volt A-c X Height = 2X		2-pole 240-volt A-c X Height = 2X		3-pole 240-volt A-c X Height = 3X	
		Catalog Number	List Each	Catalog Number	List Each	Catalog Number	List Each	Catalog Number	List Each	Catalog Number	List Each
10	TQL	TQL1110	\$2.80			TQL2110	\$6.60	THQL22010	\$18.00	THQL32010	\$22.50
15		TQL1115	2.80	TQL21WY15	\$8.90	TQL2115	6.60	THQL22015	18.00	THQL32015	22.50
20		TQL1120	2.80	TQL21WY20	8.90	TQL2120	6.60	THQL22020	18.00	THQL32020	22.50
30	TQL	TQL1130	2.80	TQL21WY30	8.90	TQL2130	6.60	THQL22030	18.00	THQL32030	22.50
40		TQL1140	2.80			TQL2140	6.60	THQL22040	18.00	THQL32040	22.50
50		TQL1150	2.80			TQL2150	6.60	THQL22050	18.00	THQL32050	22.50
60	TQAL					TQAL2160	6.60	THQL22060	18.00	THQL32060	22.50
70						TQAL2170	13.50	THQAL22070	21.50	THQAL32070	29.00
90						TQAL21090	18.00	THQAL22090	31.00	THQAL32090	33.00
100						TQAL21100	18.00	THQAL22100	31.00	THQAL32100	33.00

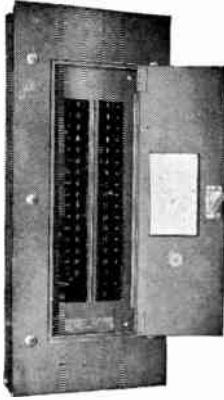
① The sum of breaker ratings mounted opposite each other (double-branch construction) must not exceed 140 amperes. When this sum exceeds 140 amperes, single-branch construction must be used.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC PANELBOARDS

Types NLTQ, NLAB

Style Q—Factory Assembled



- **SERVICE**—240 Volts A-c
- **MAINS**—600 A main lugs or 600 A main breaker
- **BRANCHES**—15-100 A, 1-, 2-, 3-pole
Standard—15-50A, 1-pole;
15-100A, 2-, 3-pole
Sub-Feed—225A, max, 2-, 3-pole

WIRING SPACE—From end of lug to wall of box In Inches

Main Lugs Only		Mains—To Top or Bottom Wall					Branch Circuit Breakers				
Rating Amp	Space	Main Circuit Breakers				Neutral	Trip Range Amp	Circuit Breaker Frame Type		To Side Wall	
		Trip Range Amp	Type Frame		Space			Conventional	HI-Q	14-inch Wide Box	22-inch Wide Box
50	5 1/4	10-50	TQC	THQC	6 1/2	5 3/8	10-50	TQL	THQL	4	8
		60-100	TQC	THQC			60-100	TQAL	THQAL		
100	5 1/4	15-100	TE	.....	5 3/8	5 3/8	10-100	TQB	THQB	7 1/8	7 1/8
		125-225	TQD	.....	6 1/8	5	15-100ⓐ	TE	.....	
		70-225	TJF	.....	6 1/8	5	125-225ⓐ	TQD	.....	
225	4 3/8	70-225	TFKⓑ	.....	8 1/8	8 1/8	70-225ⓐ	TFJ	.....	8 3/8	8 3/8
			TJJ	.....			TFKⓑ	.....		
			TJK4ⓑ	.....			TJK6ⓑ	.....		
400	10 3/16	125-400	TJK4ⓑ	.....	8 3/8	8 3/8					
600	10 3/16	250-600	TJK6ⓑ	.....						

- ⓐ Interchangeable trip frame.
- ⓑ Sub-feed construction.
- ⓒ Combination panel construction.

20-ampere Single-pole Breakers are Standard. Otherwise Specify 15, 30, 40, or 50 Amperes.

No. of S.P. Branch Circuits	With Main Lugs Only				Panel "X" Height	No. of S.P. Branch Circuits	With Main Circuit Breakersⓐ				Panel "X" Height
	Main Amp	Type NLTQⓐ with TQL or TQAL Branch Breaker	Type NLABⓑ with TQB Branch Breaker	List Each			Main Amp	Type NLTQⓐ with TQL or TQAL Breaker Branch	Type NLABⓑ with TQB Branch Breaker	List Each	

Single-Phase, 3-Wire, 120/240-Volt A-C, Panel Box is 14 inches Wide x 4 1/2 inches Deep

08	100	NLTQ308L	NLAB308L	\$113	6X	08	50	NLTQ308AB	NLAB308AB	\$125	12X
10	100	NLTQ310L	NLAB310L	125	6X	10	50	NLTQ310AB	NLAB310AB	137	12X
12	100	NLTQ312L	NLAB312L	137	6X	12	100	NLTQ312AB	NLAB312AB	160	12X
14	100	NLTQ314L	NLAB314L	149	9X	14	100	NLTQ314AB	NLAB314AB	172	15X
16	100	NLTQ316L	NLAB316L	161	9X	16	100	NLTQ316AB	NLAB316AB	184	15X
18	100	NLTQ318L	NLAB318L	173	9X	18	100	NLTQ318AB	NLAB318AB	196	15X
20	100	NLTQ320L	NLAB320L	185	12X	20	100	NLTQ320AB	NLAB320AB	208	18X
22	225	NLTQ322L	NLAB322L	202	12X	22	225	NLTQ322AB	NLAB322AB	389	21X
24	225	NLTQ324L	NLAB324L	214	12X	24	225	NLTQ324AB	NLAB324AB	401	21X
26	225	NLTQ326L	NLAB326L	226	15X	26	225	NLTQ326AB	NLAB326AB	413	24X
28	225	NLTQ328L	NLAB328L	238	15X	28	225	NLTQ328AB	NLAB328AB	425	24X
30	225	NLTQ330L	NLAB330L	250	15X	30	225	NLTQ330AB	NLAB330AB	437	24X
32	225	NLTQ332L	NLAB332L	262	18X	32	225	NLTQ332AB	NLAB332AB	449	27X
34	225	NLTQ334L	NLAB334L	274	18X	34	225	NLTQ334AB	NLAB334AB	461	27X
36	225	NLTQ336L	NLAB336L	286	18X	36	225	NLTQ336AB	NLAB336AB	473	27X
38	225	NLTQ338L	NLAB338L	298	21X	38	225	NLTQ338AB	NLAB338AB	485	30X
40	225	NLTQ340L	NLAB340L	310	21X	40	225	NLTQ340AB	NLAB340AB	497	30X
42	225	NLTQ342L	NLAB342L	322	21X	42	225	NLTQ342AB	NLAB342AB	509	30X

Three-Phase, 4-Wire, 208Y/120-Volt A-C, Panel Box is 14 inches Wide x 4 1/2 inches Deep

08	100	NLTQ408L	NLAB408L	\$123	6X	08	50	NLTQ408AB	NLAB408AB	\$154	12X
10	100	NLTQ410L	NLAB410L	135	6X	10	50	NLTQ410AB	NLAB410AB	166	12X
12	100	NLTQ412L	NLAB412L	147	6X	12	50	NLTQ412AB	NLAB412AB	178	12X
14	100	NLTQ414L	NLAB414L	159	9X	14	50	NLTQ414AB	NLAB414AB	190	15X
16	100	NLTQ416L	NLAB416L	171	9X	16	100	NLTQ416AB	NLAB416AB	212	15X
18	100	NLTQ418L	NLAB418L	183	9X	18	100	NLTQ418AB	NLAB418AB	224	15X
20	100	NLTQ420L	NLAB420L	195	12X	20	100	NLTQ420AB	NLAB420AB	236	18X
22	100	NLTQ422L	NLAB422L	207	12X	22	100	NLTQ422AB	NLAB422AB	248	18X
24	100	NLTQ424L	NLAB424L	219	12X	24	100	NLTQ424AB	NLAB424AB	260	18X
26	100	NLTQ426L	NLAB426L	231	15X	26	100	NLTQ426AB	NLAB426AB	272	21X
28	100	NLTQ428L	NLAB428L	243	15X	28	100	NLTQ428AB	NLAB428AB	284	21X
30	100	NLTQ430L	NLAB430L	255	15X	30	100	NLTQ430AB	NLAB430AB	296	21X
32	225	NLTQ432L	NLAB432L	272	18X	32	225	NLTQ432AB	NLAB432AB	510	27X
34	225	NLTQ434L	NLAB434L	284	18X	34	225	NLTQ434AB	NLAB434AB	522	27X
36	225	NLTQ436L	NLAB436L	296	18X	36	225	NLTQ436AB	NLAB436AB	534	27X
38	225	NLTQ438L	NLAB438L	308	21X	38	225	NLTQ438AB	NLAB438AB	546	30X
40	225	NLTQ440L	NLAB440L	320	21X	40	225	NLTQ440AB	NLAB440AB	558	30X
42	225	NLTQ442L	NLAB442L	332	21X	42	225	NLTQ442AB	NLAB442AB	570	30X

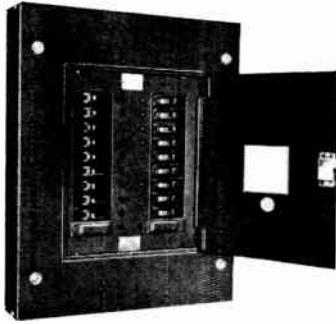
- ⓐ Main circuit breakers, 50-100 amp Type TQC; 225 amp Type TQD.
- ⓑ Catalog number includes panel with 20-amp 1-pole branch circuit breakers and main lugs or breaker at bottom, box and flush front.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC PANELBOARDS

Types NAB, NHB

Style NCP—Factory Assembled



- **SERVICE**—NAB, Max. 240 v, a-c; 125/250 v, d-c; NHB, Max. 600 v, a-c; 250 v, d-c
- **MAINS**—600 A, main lugs or main breaker
- **BRANCHES**—
Standard—15–100, A, 1-, 2-, 3-pole
Sub-feed—225 A Max. 2-, 3-pole

WIRING GUTTERS Measured from end of lug to wall of box in inches.

Mains Amperes	Main Lugs	Main Breaker	Neutral	Branches
50–100	5 7/8	4 1/2	5 3/8	4 1/2
225	5 1/2	6 1/4	5	...
400	8 1/16	9	8 1/4	...
600	8 1/16	9	8 1/16	...

Ⓢ Dimension shown is for T F J or T F K frame. T Q D frame is 5 11/16".

20-ampere Single-pole Breakers are Standard. Otherwise Specify 15, 30, 40, or 50 Amperes.

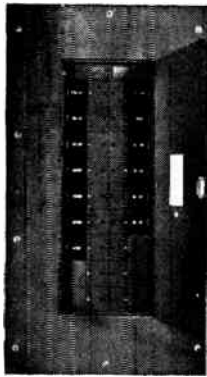
No. of S.P. Branch Circuits	Main Amp	With Main Lugs Only				With Main Circuit Breaker					
		List Each	Complete Panelboard			List Each	Complete Panelboard			Ship Wt in Lb	
			Catalog NumberⓈ	Box Ⓢ	Ship Wt in Lb		Catalog NumberⓈ	Box Ⓢ	Ship Wt in Lb		
Type NAB—Single-Phase, 3-Wire, 120/240-Volt A-C or 125/250-Volt D-C											
08	50	\$192	NAB308L	DA220520N	20 1/2	70	\$229	NAB308AB	DA220523N	23 1/4	76
10	50	220	NAB310L	DA220523N	23 1/4	76	257	NAB310AB	DA220523N	23 1/4	78
12	100	248	NAB312L	DA220523N	23 3/4	78	304	NAB312AB	DA220526N	26	84
14	100	276	NAB314L	DA220526N	26	84	332	NAB314AB	DA220526N	26	86
16	100	304	NAB316L	DA220526N	26	86	360	NAB316AB	DA220528N	28 3/4	95
18	100	332	NAB318L	DA220528N	28 3/4	95	388	NAB318AB	DA220528N	28 3/4	98
20	100	360	NAB320L	DA220528N	28 3/4	98	416	NAB320AB	DA220531N	31 1/2	108
22	225	393	NAB322L	DA220531N	31 1/2	108	600	NAB322AB	DA220542N	42 1/2	165
24	225	421	NAB324L	DA220531N	31 1/2	112	628	NAB324AB	DA220542N	42 1/2	167
26	225	449	NAB326L	DA220534N	34 1/4	125	656	NAB326AB	DA220545N	45 1/4	175
28	225	477	NAB328L	DA220534N	34 1/4	130	684	NAB328AB	DA220545N	45 1/4	177
30	225	505	NAB330L	DA220537N	37	145	712	NAB330AB	DA220548N	48	185
32	225	533	NAB332L	DA220537N	37	151	740	NAB332AB	DA220548N	48	187
34	225	561	NAB334L	DA220539N	39 3/4	168	768	NAB334AB	DA220550N	50 3/4	195
36	225	589	NAB336L	DA220539N	39 3/4	175	796	NAB336AB	DA220550N	50 3/4	197
38	225	617	NAB338L	DA220542N	42 1/2	194	824	NAB338AB	DA220553N	53 1/2	205
40	225	645	NAB340L	DA220542N	42 1/2	202	852	NAB340AB	DA220553N	53 1/2	207
42	225	673	NAB342L	DA220545N	45 1/4	210	880	NAB342AB	DA220556N	56 1/4	215

Type NAB—3-Phase, 4-Wire, 208Y/120-Volt A-C											
08	50	\$202	NAB408L	DA220520N	20 1/2	70	\$254	NAB408AB	DA220523N	23 1/4	77
10	50	230	NAB410L	DA220523N	23 1/4	76	282	NAB410AB	DA220526N	26	83
12	50	258	NAB412L	DA220523N	23 3/4	78	310	NAB412AB	DA220526N	26	85
14	50	286	NAB414L	DA220526N	26	84	338	NAB414AB	DA220528N	28 3/4	94
16	100	314	NAB416L	DA220526N	26	86	369	NAB416AB	DA220528N	28 3/4	97
18	100	342	NAB418L	DA220528N	28 3/4	95	417	NAB418AB	DA220531N	31 1/2	107
20	100	370	NAB420L	DA220528N	28 3/4	98	445	NAB420AB	DA220531N	31 1/2	111
22	100	398	NAB422L	DA220531N	31 1/2	108	473	NAB422AB	DA220534N	34 1/4	124
24	100	426	NAB424L	DA220531N	31 1/2	112	501	NAB424AB	DA220534N	34 1/4	129
26	100	454	NAB426L	DA220534N	34 1/4	125	529	NAB426AB	DA220537N	37	144
28	100	482	NAB428L	DA220534N	34 1/4	130	557	NAB428AB	DA220537N	37	150
30	100	510	NAB430L	DA220537N	37	145	585	NAB430AB	DA220539N	39 3/4	167
32	225	543	NAB432L	DA220537N	37	151	613	NAB432AB	DA220548N	48	190
34	225	571	NAB434L	DA220539N	39 3/4	168	641	NAB434AB	DA220550N	50 3/4	198
36	225	599	NAB436L	DA220539N	39 3/4	175	669	NAB436AB	DA220550N	50 3/4	200
38	225	627	NAB438L	DA220542N	42 1/2	194	697	NAB438AB	DA220553N	53 1/2	208
40	225	655	NAB440L	DA220542N	42 1/2	202	725	NAB440AB	DA220553N	53 1/2	210
42	225	683	NAB442L	DA220545N	45 1/4	210	753	NAB442AB	DA220556N	56 1/4	218

Type NHB—3-Phase, 4-Wire, 480Y/277-Volt A-C											
08	50	\$230	NHB408L	DA220520N	20 1/2	70	\$312	NHB408AB	DA220523N	23 1/4	77
10	50	265	NHB410L	DA220523N	23 1/4	76	347	NHB410AB	DA220526N	26	83
12	50	300	NHB412L	DA220523N	23 3/4	78	382	NHB412AB	DA220526N	26	85
14	50	335	NHB414L	DA220526N	26	84	417	NHB414AB	DA220528N	28 3/4	94
16	100	370	NHB416L	DA220526N	26	86	468	NHB416AB	DA220528N	28 3/4	97
18	100	405	NHB418L	DA220528N	28 3/4	95	503	NHB418AB	DA220531N	31 1/2	107
20	100	440	NHB420L	DA220528N	28 3/4	98	538	NHB420AB	DA220531N	31 1/2	111
22	100	475	NHB422L	DA220531N	31 1/2	108	573	NHB422AB	DA220534N	34 1/4	124
24	100	510	NHB424L	DA220531N	31 1/2	112	608	NHB424AB	DA220534N	34 1/4	129
26	100	545	NHB426L	DA220534N	34 1/4	125	643	NHB426AB	DA220537N	37	144
28	100	580	NHB428L	DA220534N	34 1/4	130	678	NHB428AB	DA220537N	37	150
30	100	615	NHB430L	DA220537N	37	145	713	NHB430AB	DA220539N	39 3/4	167
32	225	655	NHB432L	DA220537N	37	151	748	NHB432AB	DA220548N	48	190
34	225	690	NHB434L	DA220539N	39 3/4	168	783	NHB434AB	DA220550N	50 3/4	198
36	225	725	NHB436L	DA220539N	39 3/4	175	818	NHB436AB	DA220550N	50 3/4	200
38	225	760	NHB438L	DA220542N	42 1/2	194	853	NHB438AB	DA220553N	53 1/2	208
40	225	795	NHB440L	DA220542N	42 1/2	202	888	NHB440AB	DA220553N	53 1/2	210
42	225	830	NHB442L	DA220545N	45 1/4	210	923	NHB442AB	DA220556N	56 1/4	218

Ⓢ Boxes furnished with knockouts as standard. For boxes without knockouts add suffix "B" to box catalog number.
 Ⓢ Catalog number includes panel with 20-ampere 1-pole Branch Circuit Breakers and Main Lugs or Breaker at bottom, Box and Flush Front.

The Above Items Are Subject to 50% Discount



GENERAL ELECTRIC PANELBOARDS

Type CCB

Style CP—Factory Assembled

- **SERVICE**—600 V, A-c; 250 V, D-c Max.
- **MAINS**—Max. 1200 Amp. Main Lugs; 1200 Amp, Main Breaker
- **BRANCHES**—15-1200 Amp, 1-, 2-, 3-pole Molded-case Breakers

Wiring Space—From End of Lug to Wall of Box (Inches)

Amp	Main Lugs Only		Main or Branch Breakers				
	To Top or Bottom Wall	Phase Neut	Breaker Frame		To Side Wall Box Width		
			Ampere	Type	31"	35"	40"
225	6 1/8	7 3/8	100	TE, TEF, TEF4, TEF6, THEF4, THEF6	7 1/16	9 1/16	12 3/16
400	8 1/8	7 3/8		TQD	7 1/16	9 1/16	12 3/16
600	10 1/2	9 3/4	225	TFJ, TFK, THFK	5 7/8	7 7/8	10 3/8
800	10 1/2	10		TJJ, TJK4, THJK4, TJK6	NA	7 3/8	9 3/4
1200	12 1/4	12	400-600	TKM8, THKM8, TKM12, THKM12	NA	NA	12 1/4
			800-1200		7 1/2	9 1/2	12

PMCU Branch Circuits: NEMA Sizes—00 thru 4; FVNR or FVR 208 thru 550 volts

STEP 1 Specify Type CCB

Description	Breaker Type		Ratings				List Price Each				Unit "X" Height (X=1 3/8")				
	Frame	Trip	Max Panel Volts	Lugs per Pole	Wire Range	Type Wire	Amperes	3-ph 4-w	3-ph 3-w	1-ph 3-w	1-ph 2-w	3-ph, 4-w 1-ph, 3-w	3-ph, 3-w 1-ph, 3-w		
								3-ph 4-w	3-ph 3-w	1-ph 3-w	1-ph 2-w	3-ph, 4-w 1-ph, 3-w	3-ph, 3-w 1-ph, 3-w		
Main Lugs			600	1	1-(#6-350 MCM)	Cu-Al	225	\$115	\$90	\$115	\$90	6X	4X		
			A-c	1	1-(250-600 MCM) or 2-(250 MCM)	Cu-Al	400	165	130	165	130	8X	6X		
			250	2	1-(250-600 MCM) or 2-(250 MCM)	Cu-Al	600	215	170	215	170	12X	8X		
			D-c	2	1-(250-600 MCM) or 2-(250 MCM)	Cu	800	265	210	265	210	12X	8X		
				3	1-(250-600 MCM) or 2-(250 MCM)	Al	800	265	210	265	210	14X	10X		
				3	1-(250-600 MCM) or 2-(250 MCM)	Cu	1200	365	290	365	290	16X	10X		
				1	4-(600 MCM)	Al	1200	365	290	365	290	16X	10X		
	Main Breaker	Conv	TFJ	Fixed Inter.	600	1	1-(#4-300 MCM)	Cu-Al	70-225	373	348	322	297	9X	7X
			TFK	Fixed Inter.	1	1	1-(#4-300 MCM)	Cu-Al	423	398	360	335	9X	7X	
			TJJ	Fixed Inter.	1	1	1-(#6-600 MCM) or 2-(2/0-250 MCM)	Cu-Al	125-400	624	589	538	503	12X	10X
TJK4			Fixed Inter.	1	1	1-(#6-600 MCM) or 2-(2/0-250 MCM)	Cu-Al	661	626	569	534	12X	10X		
TJK6			Fixed Inter.	1	1	1-(#6-600 MCM) or 2-(2/0-250 MCM)	Cu-Al	929	884	779	734	12X	10X		
				1	1	2-(250-350 MCM)	Cu	500-600	984	939	815	770	14X	10X	
				1	1	2-(350-500 MCM)	Al								
				1	1	2-(2/0-500 MCM)	Cu-Al	500-600	1058	1003	889	834	14X	10X	
				1	1	3-(250-500 MCM)	Cu-Al	700-800	1298	1203	1112	1057	14X	10X	
				1	1	3-(250-500 MCM)	Cu-Al	700-800	1620	1545	1434	1359	16X	12X	
			1	1	3-(250-500 MCM)	Cu-Al	1000	1681	1606	1485	1410	18X	12X		
			1	1	4-(250-500 MCM)	Cu-Al	1200	2103	2028	1886	1811	18X	12X		
		HI-BREAK	THFK	Inter.	600	1	1-(#6-300 MCM)	Cu-Al	70-225	653	628	560	535	9X	7X
			THJK4	Inter.	1	1	1-(#6-600 MCM) or 2-(2/0-250 MCM)	Cu-Al	125-400	909	874	783	748	12X	10X
			THKM8	Inter.	1	1	2-(2/0-500 MCM)	Cu-Al	500-600	1222	1167	1053	998	14X	10X
				1	1	3-(250-500 MCM)	Cu-Al	700-800	1462	1407	1276	1221	14X	10X	
				1	1	3-(250-500 MCM)	Cu-Al	700-800	1784	1709	1598	1523	18X	12X	
				1	1	3-(250-500 MCM)	Cu-Al	1000	1845	1770	1649	1574	18X	12X	
				1	1	4-(250-500 MCM)	Cu-Al	1200	2266	2191	2050	1975	18X	12X	

STEP 3 Specify Branch Breakers and Price

Description	Breaker Type		Max Panel Volts	Amperes		No. of Poles	Breaker Rate A-c Volts	Conventional				HI-BREAK		Unit "X" Height (X=1 3/8")																								
	Frame	Trip		15-50	15-50			Max Volts 240 A-c 125/250 D-c		Max Volts 600 A-c 250 D-c		Max Volts 600 A-c 250 D-c																										
								Per Cir	Per Space	Per Cir	Per Space	Per Cir	Per Space																									
Branch Circuits, Molded-case Circuit Breakers	Double Branch	TE	Fixed	15-50	15-50	1	120	\$20	\$4					1X																								
								240	47	8					2X																							
								240	69	12					3X																							
		70-100	70-100	1	120	32	4	3	240	89	12					1X																						
																	240	47	8					2X														
																	240	69	12					3X														
		TEF, TEF4	THEF4	Fixed Fixed	15-50	15-50	1	277	480	Use 600-volt Prices						1X																						
																	2	430	8	\$123	12	3X																
																	3	480	12	145	12	3X																
		TEF6	THEF6	Fixed	15-50	15-50	2	600	Use 600-volt Prices							1X																						
	3																480	8	138	12	2X																	
	3																480	12	161	12	3X																	
	Single Branch	TKM8, THKM8	Inter.	125-600	125-600	2	600	Use 600-volt Prices							1X																							
																3	600	8	123	12	2X																	
																3	600	12	145	12	3X																	
																70-100	70-100	2	600	96	8	3	600	Use 600-volt Prices						2X								
																															3	600	123	12	161	12	3X	
																															3	600	207	12				
																70-225	70-225	2	600	258	12	3	600	Use 600-volt Prices						3X								
																															3	600						
3																															600	124	8					2X
125-225																125-225	2	600	154	12	3	600	Use 600-volt Prices						3X									
	3	240																																				
	3	240																																				
70-225	70-225	Inter.	70-225	70-225	2	600	600	Use 600-volt Prices						3X																								
															3	600	245	12	445	12	3X																	
															3	600	308	12	538	12	3X																	
125-400	125-400	Fixed	125-400	125-400	2	600	600	Use 600-volt Prices						6X																								
															3	600	459	24					6X															
															3	600	404	24	618	24	6X																	
125-400	125-400	Inter.	125-400	125-400	2	600	600	Use 600-volt Prices						6X																								
															3	600	496	24	744	24	6X																	
															3	600	564	24					6X															
250-400	250-400	Inter.	250-400	250-400	2	600	600	Use 600-volt Prices						6X																								
															3	600	714	24					6X															
															3	600	600	24					6X															
500-600	500-600	Inter.	125-600	125-600	2	600	600	Use 600-volt Prices						6X																								
															3	600	624	48	788	48	6X																	
															3	600	793	48	957	48	6X																	
700-800	700-800	Inter.	700-800	700-800	2	600	600	Use 600-volt Prices						6X																								
															3	600	847	48	1011	48	6X																	
															3	600	1033	48	1197	48	6X																	
700-800	700-800	Inter.	700-800	700-800	2	600	600	Use 600-volt Prices						8X																								
															3	600	1069	64	1233	64	8X																	
															3	600	1255	64	1419	64	8X																	
1000	1000	Inter.	1000	1000	2	600	600	Use 600-volt Prices						8X																								
															3	600	1120	64	1284	64	8X																	
															3	600	1316	64	1480	64	8X																	
1200	1200	Inter.	1200	1200	2	600	600	Use 600-volt Prices						8X																								
															3	600	1521	64	1685	64	8X																	
															3	600	1738	64	1901	64	8X																	

For footnotes, see next page.

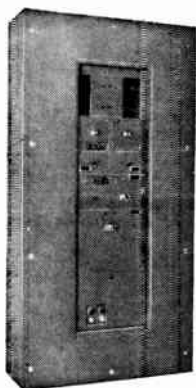
The Above Items Are Subject to 50% Discount

Steps 4 and 5 -- See next page.

GENERAL ELECTRIC PANELBOARDS

With Panel Motor Control Units

- Combination Motor Starter and Disconnect Device in One Enclosure with Interlocked Door.
- NEMA Size No. 00 thru No. 4.
- Full Voltage Nonreversing, or Reversing.
- Two-speed and Part-winding Combination Starters available. Refer to Graybar.
- Units are Plug-in thru Size No. 2.
- Units available for existing Type CCB Panelboards.



**STEP 3
Specify
Panel
Motor
Control
Units
and
Price**

PMCU Branch Circuits FVNR FVR Combination Motor Starters With Circuit Breaker Disconnects
(NEMA rated only)
2-speed and Part Winding Combination Starters Available. Refer to Graybar.

Maximum Voltage (3-phase)	Twin Mounted Units								Full-voltage, Nonreversing			Full-voltage, Reversing				
	NEMA Size Starter		Left Unit				Right Unit				List Price ①			List Price ②		
	Left Unit	Right Unit	Cir Bkr Disc.	Max Hp	Max Hp	Cir Bkr Disc.	Per Twin Unit	Per Twin Blank Space	Unit "X" Height (X = 1 3/8")	Per Twin Unit	Per Twin Blank Space	Unit "X" Height (X = 1 3/8")				
208 or 220	00	00	15-50	TQC	1 1/2	1 1/2	15-50	TQC	\$290	\$64	8X	Available in Single-mounting Only (See Below)				
	0	Blank	15-50	TQC	1 1/2	Blank	Blank	Blank	180	64	8X					
	0	0	15-50	TQC	3	3	15-50	TQC	310	64	8X					
	0	00	15-50	TQC	3	1 1/2	15-50	TQC	300	64	8X					
	0	Blank	15-50	TQC	3	Blank	Blank	Blank	190	64	8X					
1	1	15-50	TQC	7 1/2	7 1/2	15-50	TQC	340	64	8X						
1	0	15-50	TQC	7 1/2	3	15-50	TQC	330	64	8X						
1	00	15-50	TQC	7 1/2	1 1/2	15-50	TQC	320	64	8X						
1	Blank	15-50	TQC	7 1/2	Blank	Blank	Blank	210	64	8X						
208 or 220	Single-mounted Units								Per Unit	Per Blank Space	Per Unit		Per Blank Space			
	00				1 1/2		15-50	TQC	\$160	\$40	5X	\$320	\$64	8X		
	0				3		15-50	TE	180	40	5X	350	64	8X		
	1				7 1/2		15-50	TQC	170	40	5X	340	64	8X		
	1						15-50	TE	190	40	5X	370	64	8X		
	2						15-50	TQC	190	40	5X	360	64	8X		
	2				15		70-100	TE	210	40	5X	400	64	8X		
	2				10		70-100	TQC	260	64	8X	500	80	10X		
	2				15		70-100	TE	270	64	8X	540	80	10X		
	2				15		70-100	TE	290	64	8X	560	80	10X		
	3				25		70-100	TE	430	136	17X	800	224	28X		
	3				30		70-225	TFJ	620	136	17X	990	224	28X		
	3				50		70-225	TFJ	910	136	17X	1610	224	28X		
	440	00				2		15-50	TEF4	200	40	5X	370	64	8X	
		0				5		15-50	TEF4	210	40	5X	390	64	8X	
1					10		15-50	TEF4	230	40	5X	420	64	8X		
2					20		15-50	TEF4	290	64	8X	560	80	10X		
2					25		70-100	TEF4	300	64	8X	570	80	10X		
550	00				2		15-50	TEF6	230	40	5X	400	64	8X		
	0				5		15-50	TEF6	240	40	5X	420	64	8X		
	1				10		15-50	TEF6	260	40	5X	450	64	8X		
	2				20		15-50	TEF6	320	64	8X	590	80	10X		
	2				25		70-100	TEF6	330	64	8X	600	80	10X		
3				50		70-100	TEF6	480	136	17X	850	224	28X			
3				100		70-225	TFJ	910	136	17X	1610	224	28X			

**STEP 4
Specify
Modi-
fications
and
Price**

Description	Ratings		List Price Each			
	Maximum Volts	Amp	3φ-4w	3φ-3w or D-c	1φ-2w or D-c	1φ-2w or D-c
For Panelboard Sub-feed Lugs Double (Dual) Main Lugs	600 A-c or 250 D-c	225	\$30	\$30	\$20	\$20
		400	50	50	40	40
		600	80	80	70	70
		800	110	110	100	100
		1200	130	130	120	120
For Panelboard Split Bus (Includes Main Lugs for Separate Section) or Through-feed Lugs	600 A-c or 250 D-c	225	60	60	50	50
		400	70	70	60	60
		600	80	80	70	70
		800	110	110	100	100
		1200	130	130	120	120
For PMCU Units	Push Buttons—"ON-OFF" or "START-STOP"		\$12			
	"Forward-Reverse-Stop"		\$8			
	Selector Switch—"Hand-Off-Auto"		12			
	Pilot Light		40			
	Extra Interlock On Starter		17			
	Third Overload Relay—Two furnished as standard NEMA Size 00, 0, 1, 2, 3, 4		10			
NOTE—This price is to be used as a DEDUCTION when an overload relay is to be omitted						
Control Circuit Transformer—NEMA Size 00, 0, 1		46				
(Single Secondary Fuse included)		68				
NEMA Size 2		97				
NEMA Size 3		118				
NEMA Size 4						
Box and Cover for PMCU Units in Blank Space			Use twice the "per blank space" price above			

**STEP 5
Specify
Encl.**

If Main Ampere Rating For	Description	Ampere	And Largest Branch Circuit Breaker Is:				or PMCU Cir. Is:		Box Height (in Inches)
			225A Frame		600A Frame		1200A Frame		
			Then Box Dimensions in Inches are:						
Main Lugs Only Is:	225-1200	31	9 1/2	35	11 1/2	40	11 1/2	31	9 1/2
		31	9 1/2	35	11 1/2	40	11 1/2	31	9 1/2
Main Breaker Is:	225 Frame	35	11 1/2	35	11 1/2	40	11 1/2	35	11 1/2
		35	11 1/2	40	11 1/2	40	11 1/2	40	11 1/2

①When two 500 MCM aluminum cables are used, a 40-inch wide box is required. ②Branch breaker of same frame size as main breaker may be located opposite this main breaker. ③A 40-inch wide box is required. ④Not U/L listed. ⑤Unit "X" height is 3X for 2-pole HI-BREAK. ⑥List price includes thermal overload heaters. No deduction for omission. ⑦Box must be 35" wide by 11 1/2" deep when front with door is specified for panels with any PMCU circuits. ⑧Fronts are furnished without doors as standard for panels with any PMCU circuits. ⑨Dimensions are for panelboards containing only PMCU branch circuits. When these are in combination with circuit breaker branch circuits, box dimensions are determined by largest branch circuit breaker. Fronts are without doors. ⑩Dimensions are

GENERAL ELECTRIC PANELBOARD BOXES AND FRONTS

All Box Dimensions Are Inside Dimensions

Boxes					Fronts		
Panel	Panel "X" Height	Height in Inches	Catalog Number	List Price Each	Flush or Surface Catalog Number ^①	List Price Each	Door Opening Height in Inches ^②
14" Wide x 4 1/2" Deep with Standard Knockouts					With 7 1/4" Wide Door Opening^③		
Style Q Types NLTQ, NLAB	3X	18 1/2	DA140418	\$7	DA140718F or S	\$15	9 1/2
	6X	21 1/2	DA140421	8	DA140721F or S	16	12 1/2
	9X	24 1/2	DA140424	11	DA140724F or S	23	15 1/2
	12X	27 1/2	DA140427	13	DA140727F or S	25	18 1/2
	15X	30 1/2	DA140430	15	DA140730F or S	26	21 1/2
	18X	33 1/2	DA140433	16	DA140733F or S	28	24 1/2
	21X	36 1/2	DA140436	18	DA140736F or S	31	27 1/2
	24X	39 1/2	DA140439	20	DA140739F or S	33	30 1/2
	27X	42 1/2	DA140442	28	DA140742F or S	37	33 1/2
	30X	45 1/2	DA140445	34	DA140745F or S	43	36 1/2
	33X	48 1/2	DA140448	36	DA140748F or S	45	39 1/2
	36X	51 1/2	DA140451	38	DA140751F or S	48	42 1/2
39X	54 1/2	DA140454	40	DA140754F or S	53	45 1/2	
42X	57 1/2	DA140457	43	DA140757F or S	55	48 1/2	
45X	60 1/2	DA140460	58	DA140760F or S	67	51 1/2	
48X	63 1/2	DA140463	61	DA140763F or S	70	54 1/2	
51X	66 1/2	DA140466	65	DA140766F or S	73	57 1/2	
54X	69 1/2	DA140469	67	DA140769F or S	76	60 1/2	
57X	72 1/2	DA140472	71	DA140772F or S	78	63 1/2	
60X	75 1/2	DA140475	74	DA140775F or S	82	66 1/2	

22" Wide x 5 3/4" Deep with Standard Knockouts^①

Boxes					Fronts		
Panel	Panel "X" Height	Height in Inches	Catalog Number	List Price Each	Flush or Surface Catalog Number ^①	List Price Each	Door Opening Height in Inches ^②
22" Wide x 5 3/4" Deep with Standard Knockouts^①					With 7 1/4" Wide Door Openings^③		
Style Q Types NLTQ, NLAB	3X	20 1/2	DA220520Q	\$18	DA220720F or S	\$28	9 1/2
	6X	23 1/4	DA220523Q	19	DA220723F or S	31	12 1/2
	9X	26	DA220526Q	21	DA220726F or S	33	15 1/2
	12X	28 3/4	DA220528Q	23	DA220728F or S	36	18 1/2
	15X	31 1/2	DA220531Q	25	DA220731F or S	38	21 1/2
	18X	34 1/4	DA220534Q	27	DA220734F or S	40	24 1/2
	21X	37	DA220537Q	29	DA220737F or S	43	27 1/2
	24X	39 3/4	DA220539Q	31	DA220739F or S	46	30 1/2
	27X	42 1/2	DA220542Q	44	DA220742F or S	52	33 1/2
	30X	45	DA220545Q	48	DA220745F or S	58	36 1/2
	33X	50 3/4	DA220550Q	55	DA220750F or S	60	39 1/2
	36X	53 1/2	DA220553Q	52	DA220753F or S	63	42 1/2
39X	56 1/4	DA220556Q	58	DA220756F or S	66	45 1/2	
42X	59	DA220559Q	60	DA220759F or S	69	48 1/2	
45X	61 3/4	DA220561Q	79	DA220761F or S	88	51 1/2	
48X	64 1/2	DA220564Q	83	DA220764F or S	90	54 1/2	
51X	67 1/4	DA220567Q	87	DA220767F or S	94	57 1/2	
54X	70	DA220570Q	90	DA220770F or S	98	60 1/2	
57X	72 3/4	DA220572Q	93	DA220772F or S	100	63 1/2	
60X	75 1/2	DA220575Q	96	DA220775F or S	104	66 1/2	

22" Wide with 5 3/4" Deep with Standard Knockouts^①

Boxes					Fronts		
Panel	Panel "X" Height	Height in Inches	Catalog Number	List Price Each	Flush or Surface Catalog Number ^①	List Price Each	Door Opening Height in Inches ^②
22" Wide with 5 3/4" Deep with Standard Knockouts^①					With 13 1/4" Wide Door Opening^③		
Style NCP Types NAB, NHB	4X	20 1/2	DA220520N	\$18	DA220520F or S	\$28	9
	6X	23 1/4	DA220523N	19	DA220523F or S	31	11 3/4
	8X	26	DA220526N	21	DA220526F or S	33	14 1/2
	10X	28 3/4	DA220528N	23	DA220528F or S	36	17 1/4
	12X	31 1/2	DA220531N	25	DA220531F or S	38	20
	14X	34 1/4	DA220534N	27	DA220534F or S	40	22 3/4
	16X	37	DA220537N	29	DA220537F or S	43	25 1/2
	18X	39 3/4	DA220539N	31	DA220539F or S	46	28 1/4
	20X	42 1/2	DA220542N	44	DA220542F or S	52	31
	22X	45 1/4	DA220545N	46	DA220545F or S	55	33 3/4
	24X	48	DA220548N	48	DA220548F or S	58	36 1/2
	26X	50 3/4	DA220550N	52	DA220550F or S	60	39 1/4
28X	53 1/2	DA220553N	55	DA220553F or S	63	42	
30X	56 1/4	DA220556N	58	DA220556F or S	66	44 3/4	
32X	59	DA220559N	60	DA220559F or S	69	47 1/2	
34X	61 3/4	DA220561N	79	DA220561F or S	88	50 1/4	
36X	64 1/2	DA220564N	83	DA220564F or S	90	53	
38X	67 1/4	DA220567N	87	DA220567F or S	94	55 3/4	
40X	70	DA220570N	90	DA220570F or S	98	58 1/2	
42X	72 3/4	DA220572N	93	DA220572F or S	100	61 1/4	
44X	75 1/2	DA220575N	96	DA220575F or S	104	64	
46X	78 1/4	DA220578N	100	DA220578F or S	106	66 3/4	
48X	81	DA220581N	103	DA220581F or S	110	69 1/2	
50X	83 3/4	DA220583N	106	DA220583F or S	114	72 1/4	
52X	86 1/2	DA220586N	109	DA220586F or S	117	75	

All Box Dimensions Are Inside Dimensions

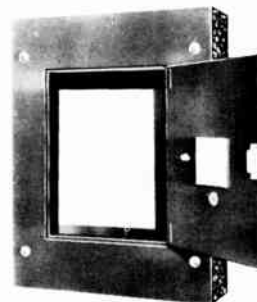
Boxes					Fronts ^①		
Panel	Panel "X" Height	Height in Inches	Catalog Number	List Price Each	Surface or Flush Catalog Number	List Price Each	Door Opening Height in Inches ^②
31" Wide x 9 1/2" Deep—No Knockouts					With 14 1/2" Wide Door Opening		
Style CP Type CCB	15X	32 1/2	DASW3109	\$61	DACB3109S or F	\$61	14 1/2
	18X	37	DASW3112	66	DACB3112S or F	68	19
	21X	41 1/2	DASW3115	72	DACB3115S or F	74	23 1/2
	24X	45 1/4	DASW3118	79	DACB3118S or F	81	27 1/4
	27X	49 3/8	DASW3121	109	DACB3121S or F	105	31 3/8
	30X	53 1/2	DASW3124	116	DACB3124S or F	113	35 1/2
	33X	57 3/8	DASW3127	125	DACB3127S or F	122	39 3/8
	36X	61 1/4	DASW3130	133	DACB3130S or F	129	43 3/4
	39X	65 1/8	DASW3133	140	DACB3133S or F	138	47 1/8
	42X	70	DASW3136	147	DACB3136S or F	146	52
	45X	74 1/2	DASW3139	156	DACB3139S or F	155	56 1/2
	48X	78 1/4	DASW3142	163	DACB3142S or F	164	60 1/4
51X	82 3/8	DASW3145	170	DACB3145S or F	173	64 3/8	
54X	86 1/2	DASW3148	177	DACB3148S or F	181	68 1/2	
35" Wide x 11 1/2" Deep—No Knockouts					With 14 1/2" Wide Door Opening		
Style CP Type CCB	15X	32 1/2	DACB3509	\$75	DACB3509S or F	\$68	14 1/2
	18X	37	DACB3512	81	DACB3512S or F	77	19
	21X	41 1/2	DACB3515	89	DACB3515S or F	83	23 1/2
	24X	45 1/4	DACB3518	118	DACB3518S or F	108	27 1/4
	27X	49 3/8	DACB3521	131	DACB3521S or F	117	31 3/8
	30X	53 1/2	DACB3524	140	DACB3524S or F	126	35 1/2
	33X	57 3/8	DACB3527	148	DACB3527S or F	137	39 3/8
	36X	61 1/4	DACB3530	158	DACB3530S or F	146	43 3/4
	39X	65 1/8	DACB3533	167	DACB3533S or F	155	47 1/8
	42X	70	DACB3536	176	DACB3536S or F	163	52
	45X	74 1/2	DACB3539	184	DACB3539S or F	173	56 1/2
	48X	78 1/4	DACB3542	194	DACB3542S or F	182	60 1/4
51X	82 3/8	DACB3545	202	DACB3545S or F	191	64 3/8	
54X	86 1/2	DACB3548	210	DACB3548S or F	203	68 1/2	

① When boxes are required to be furnished without knockouts, add suffix "B" to box catalog number.

② Flush fronts (suffix "F") are 1 1/2" larger and surface fronts (suffix "S") are 1/4" larger than box inside dimensions.

③ Door openings are centered in front, on both horizontal and vertical center lines.

④ Surface fronts (suffix "S") are 1/4" larger and flush fronts (suffix "F") are 2" larger than inside box dimensions.



TELEPHONE CABINET

Standard General Electric Panelboard boxes can be used as telephone cabinets, readily available from distributor's stock. These can be supplied with 5/8" or 3/4"-inch plywood backboards at \$4.00 list per square foot.

The Above Items Are Subject to 50% Discount

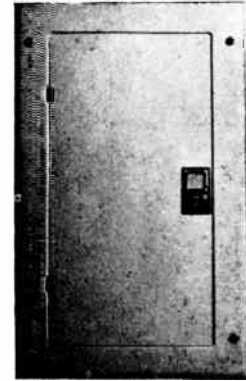
GENERAL ELECTRIC SERVICE-ENTRANCE EQUIPMENT

Power Mark + * Circuit Breaker Load Centers

Load centers on this page are suitable for use as service-entrance equipment when installed in accordance with NEC 230-70A through G. Single-phase panels in excess of 12 circuits or three-phase panels in excess of 18 circuits must be protected by either an integral main breaker or a separate service-entrance disconnect.

FEATURES

- Full functional line of enclosures for either full-size or half-size plug-in circuit breakers. Each stab will accommodate either the one-inch TQL or half-inch TQP circuit breaker.
- The Master Main* line of main breakers can be field assembled or factory assembled. These breakers provide ratings from 70 amperes to 125 amperes without using branch spaces.
- Lay-in lugs for main and neutral terminations.
- All terminations approved for either copper or aluminum wire.
- Shallow-depth and flat-front construction permits flush mounting in modern thin-wall construction.
- Appearance-styled fronts with sturdy "Trim Line" bevel and a flat architectural profile.
- Interiors easily removable for installation convenience. There are no loose springs or hardware; just a single captive screw.
- Neutrals are application oriented to provide wiring ease and maximum use of gutter space.
- Same box and front are used for any 125-ampere, main-lug, split-bus, or main-breaker interior having the same number of circuits.



MAIN LUG PANELS

Compact—Shallow Depth (2 5/8 In.)

Main Rating (Amperes)	Maximum 1-pole Spaces		Complete Device Less Breakers			
	1" TQL	1/2" TQP	NEMA 1 Enclosure		Raintight Enclosure	
			Cat. No.	List Price Each	Cat. No. RH—For Universal HubⓈ	List Price Each
			F—Flush S—Surface			

120/240 Volts, A-c Single-phase, 3-wire NO DOOR

Main Rating (Amp)	1" TQL	1/2" TQP	Cat. No.	List Price Each	Cat. No. RH—For Universal HubⓈ	List Price Each
40	2	2	TL240SⓈ TL240FⓈ	\$3.40 4.10	TL240RHⓈ	\$9.30
70	2	4	TL270F, S	5.20	TL270RHⓈ	10.30
100	4	8	TL410F, S	5.70		
125	6	12	TL612FL, SL	6.20	TL612RHⓈ	11.30
	8	16	TL812FL, SL	10.30		

WITH DOOR

125	6	12	TL612F, S	\$7.40		
	8	16	TL812F, S	11.30		

LUG-WIRE SIZES (Cu-Al)

Type of Panel	Main Rating (Amp)	Wire Size	Type of Panel	Main Rating (Amp)	Wire Size
MAIN LUG Single Phase	40	14-4	SPLIT BUS 12-20 Circuits 24-26 Circuits	125-200	6-2/0 AWG
	70-125	6-2/0 AWG		150	6-2/0 AWG
	150-200	2-250 MCM		20	6-250 MCM
Three Phase	400	2/0-250 MCM	MAIN CIRCUIT BREAKER Single Phase Three Phase	100-125	12-1/0
	125-200	2-250 MCMⓈ		150-200	1-250 MCM
	400	2/0-250 MCM		100	12-1/0
			125-200	1-250 MCMⓈ	

*Trade-mark of General Electric Company.

MAIN LUG PANELS (With Door)

Main Rating (Amperes)	Maximum 1-pole Spaces		Complete Device Less Breakers			
	1" TQL	1/2" TQP	NEMA 1 Enclosure		Raintight Enclosure	
			Cat. No.	List Price Each	Cat. No. RH—For Universal HubⓈ	List Price Each
			F—Flush S—Surface			

Single-phase, 3-wire, 120/240 Volts, A-c CONVERTIBLE TO MAIN BREAKERⓈ

125	6	12	TLM612F, S	\$9.00	TLM612RHⓈ	\$17.00
	8	16	TLM812F, S	11.50	TLM812RHⓈ	20.00
	12	24	TLM1212F, S	17.50	TLM1212RHⓈ	28.00
	16	24	TLM1612F, S	23.50	TLM1612RHⓈ	33.50
	20	24	TLM2012F, S	29.00	TLM2012RHⓈ	39.50

MAIN LUGS ONLY

150	12	24	TL1215F, S	\$22.50	TL1215RHⓈ	\$33.00
	16	30	TL1615F, S	28.50	TL1615RHⓈ	38.50
	20	30	TL2015F, S	34.00	TL2015RHⓈ	46.50
200	8	16	TL820F, S	22.00	TL820RHⓈ	32.50
	12	24	TL1220F, S	28.00	TL1220RHⓈ	38.00
	20	40	TL2020F, S	39.50	TL2020RHⓈ	52.00
	30	40	TL3020F, S	43.50	TL3020RHⓈ	56.00
	40	40	TL4020F, S	60.00	TL4020RHⓈ	101.00
400	24	42	TL2440F, SⓈ	103.00	TL2440RⓈ	154.50
	42	42	TL4240F, SⓈ	129.00	TL4240RⓈ	180.00

Three-phase, 4-wire, 120/140, 120/208Y Volts, A-c

125	12	24	TL12-412F, S	\$28.00	TL12-412RHⓈ	\$38.00
150	18	36	TL18-415F, S	39.50	TL18-415RHⓈ	50.50
	24	42	TL24-415F, S	48.00	TL24-415RHⓈ	60.50
200Ⓢ	18	36	TL18-420F, S	47.00	TL18-420RHⓈ	57.00
	30	42	TL30-420F, S	54.00	TL30-420RHⓈ	66.00
	42	42	TL42-420F, S	71.00	TL42-420RHⓈ	111.00
400	24	42	TL24-440F, S	124.00	TL24-440RⓈ	175.00
	42	42	TL42-440F, S	149.00	TL42-440RⓈ	201.00

Ⓢ Device has hole in endwall for plate-type Universal hub and comes complete with a closing cap. Order hub separately.
 Ⓢ Use Main Circuit-breaker kit TLMB70 (70 amp), TLMB90 (90 amp), TLMB100 (100 amp), or TL14B125 (125 amp).
 Ⓢ Available July 1967.
 Ⓢ Available Oct. 1967.
 Ⓢ Available Jan. 1968.
 Ⓢ On the three-phase, four-wire, 200-ampere panels, the maximum size of the main KO is 2 1/2 inches which will accept either 4 3/0 copper wires for 200 amperes or 4 3/0 aluminum wires for 155 amperes.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC SERVICE-ENTRANCE EQUIPMENT

Power Mark + * Circuit Breaker Load Centers

Load centers on this page are suitable for use as service-entrance equipment when installed in accordance with NEC 230-70A through G. Single-phase panels in excess of 12 circuits or three-phase panels in excess of 18 circuits must be protected by either an integral main breaker or a separate service-entrance disconnect.

MAIN CIRCUIT-BREAKER PANELS

Single-phase, 3-wire, 120/240 Volts, A-c

Main Rating (Amperes)	Maximum 1-pole Spaces		Complete Device (Main Breaker Only Included)			
			NEMA 1 Enclosure		Raintight Enclosure ^④	
			Cat. No.	List Price Each	Cat. No.	List Price Each
	1" TQL	1/2" TQP	F—Flush S—Surface		RH—For Universal Hub ^⑤	
TOP FEED						
100	10	20	TM1010F, S	\$32.50	TM1010RH ^⑥	\$43.00
	12	24	TM1210F, S	35.50	TM1210RH ^⑥	45.50
	14	24	TM1410F, S	38.50	TM1410RH ^⑥	48.50
	16	24	TM1610F, S	41.00	TM1610RH ^⑥	51.50
	20	24	TM2010F, S	47.00	TM2010RH ^⑥	57.50
125	12	24	TM1212F, S	58.50	TM1212RH ^⑥	69.00
	20	24	TM2012F, S	70.00	TM2012RH ^⑥	80.50
150	16	32	TM1615F, S	64.50	TM1615RH ^⑥	77.00
	20	40	TM2015F, S	70.00	TM2015RH ^⑥	83.00
	24	40	TM2415F, S	76.00	TM2415RH ^⑥	89.00
	30	40	TM3015F, S	85.00	TM3015RH ^⑥	103.00
200	20	40	TM2020F, S	70.00	TM2020RH ^⑥	83.00
	24	40	TM2420F, S	76.00	TM2420RH ^⑥	89.00
	30	40	TM3020F, S	85.00	TM3020RH ^⑥	103.00
	40	40	TM4020F, S	100.00	TM4020RH ^⑥	125.00

BOTTOM FEED

150	24	30	TM2415FB, SB	\$76.00	Refer to Graybar Refer to Graybar
	30	30	TM3015FB, SB	84.50	
200	30	40	TM3020FB, SB	84.50	Refer to Graybar Refer to Graybar
	40	40	TM4020FB, SB	104.00	

SPLIT-BUS PANELS

Single-phase, 3-wire, 120/240 Volts, A-c

Main Rating (Amperes)	Main Section		Sub-section		Complete Device Less Breakers			
					NEMA 1 Enclosure		Raintight Enclosure ^④	
					Cat. No.	List Price Each	Cat. No.	List Price Each
	Usable 2-pole 1"	Usable 2-pole 1/2"	1" TQP	1/2" TQP	F—Flush S—Surface		RH—For Universal Hub ^⑤	
125	2	4 ^②	6 ^③	12 ^④	TX1212F, S ^⑦	\$17.50	TX1212RH ^⑥	\$28.00
	3	4 ^②	6	12	TX1412F, S ^⑦	20.50	TX1412RH ^⑥	30.50
	3	4 ^②	8	16	TX1612F, S ^⑦	23.50	TX1612RH ^⑥	33.50
	3	4 ^②	12	16	TX2012F, S ^⑦	29.00	TX2012RH ^⑥	39.00
	5	5	8	14	TX2012AF, AS ^⑧	29.00	TX2012-ARH ^⑥	39.00
150	3	4 ^②	8	16	TX1615F, S ^⑦	28.00	TX1615RH ^⑥	38.00
	3	4 ^②	12	20	TX2015F, S ^⑦	32.00	TX2015RH ^⑥	44.50
	5	5	12	20	TX2415F, S ^⑦	35.00	TX2415RH ^⑥	47.00
200	3	5 ^②	8	16	TX1620F, S ^⑦	33.50	TX2020RH ^⑥	49.50
	3	5 ^②	12	20	TX2020F, S ^⑦	37.00		
	5	5	12	20	TX2420F, S ^⑦	40.00		
	4	4	16	32	TX2820F, S ^⑦	45.50		
	4	4	24	32	TX3620F, S ^⑦	57.00		

① Device has hole in endwall for plate-type Universal hub and comes complete with closing cap. Order hub separately.

② Using handle-tied breakers.

③ One additional 2-pole circuit is available using a handle-tied breaker.

④ Includes space for subsection main breaker.

⑤ Available July 1967.

⑥ Available May 1967.

⑦ Available June 1967.

⑧ On the three-phase, four-wire, 200-ampere panels, the maximum size of the main KO is 2 1/2 inches which will accept either 4 3/0 copper wires for 200 amperes or 4 3/0 aluminum wires for 155 amperes.

*Trade-mark of General Electric Company.

**Three-phase, 4-wire
120/240, 120/208 Volts, A-c**

Main Rating (Amperes)	Maximum 1-pole Spaces		Complete Device (Main Breaker Only Included)			
			NEMA 1 Enclosure		Raintight Enclosure ^④	
			Cat. No.	List Price Each	Cat. No.	List Price Each
	1" TQL	1/2" TQP	F—Flush S—Surface		RH—For Universal Hub ^⑤	
TOP FEED						
100	18	30	TM18-410F, S	\$80.50	TM18-410RH ^⑥	\$93.00
	125	30	36	TM30-412F, S	190.00	TM30-412RH ^⑥	196.00
150	24	42	TM24-415F, S	184.00	TM24-415RH ^⑥	192.50
	30	42	TM30-415F, S	193.00	TM30-415RH ^⑥	196.00
	42	42	TM42-415F, S	210.00	.....	.....
200 ^⑧	24	42	TM24-420F, S	184.00	TM30-420RH ^⑥	201.00
	30	42	TM30-420F, S	193.00		
	42	42	TM42-420F, S	210.00		

BOTTOM FEED

150	30	42	TM30-415FB, SB	\$193.00	Refer to Graybar Refer to Graybar
	42	42	TM42-415FB, SB	210.00	
200 ^⑧	30	42	TM30-420FB, SB	193.00	Refer to Graybar Refer to Graybar
	42	42	TM42-420FB, SB	210.00	

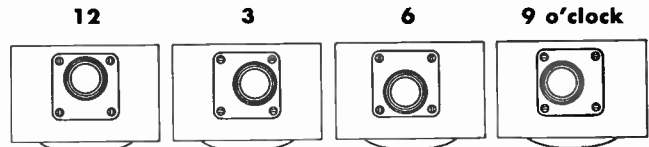
UNIVERSAL RAINLIGHT HUBS "RH" Raintight Devices



Available for conduit sizes 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2".

Can be installed on conduit before switch is mounted.

No offset in conduit required for surface conduit runs, 1/2" max distance to wall.



Four mounting positions available with universal hub

Nominal Conduit Diameter in Inches	Catalog Number	List Price Each	Standard Pkg Qty	Lb. per Pkg
3/4	TC75	\$2.70	10	4
1	TC100	2.70		4
1 1/4	TC125	2.70		9
1 1/2	TC150	2.70		9
2	TC200	4.60	10	9
2 1/2	TC250	8.00		9
Closing Cap	TCCP	.30		6

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC SERVICE-ENTRANCE EQUIPMENT

Power Mark+* Circuit Breaker Load Centers

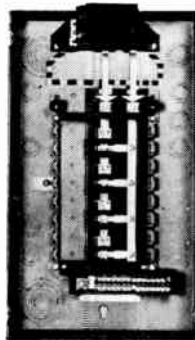
FIELD-ASSEMBLED MAIN DISCONNECT PANELS

MAIN LUG PANELS

For use with Master Main Kits.

Single-phase, 3-wire, 120/240 Volts, A-c

Main Rating (Amperes)	Maximum 1-pole Spaces		Complete Device Less Breakers			
			NEMA 1 Enclosure		Raintight Enclosure	
			Cat. No. F—Flush S—Surface	List Price Each	Cat. No. RH—For Universal Hub①②	List Price Each
	1" TQL	1 1/2" TQP				
125	6	12	TLM612F, S	\$9.00	TLM612RH②	\$17.00
	8	16	TLM812F, S	11.80	TLM812RH②	20.00
	12	24	TLM1212F, S	17.50	TLM1212RH②	28.00
	16	24	TLM1612F, S	23.50	TLM1612RH②	33.50
	20	24	TLM2012F, S	29.00	TLM2012RH②	39.50

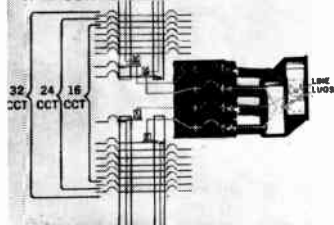


Master main panel

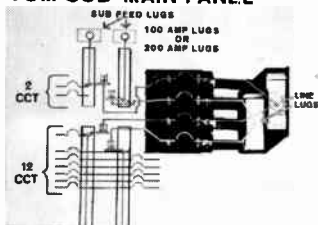
Master Main *Disconnect Kits
5000 Amp IC, Two-pole, 120/240 Volts, A-c

Amperes	Cat. No.	List Price Each
70	TLMB070	\$13.50
90	TLMB090	18.20
100	TLMB100	18.20
125③	TLMB125③	42.00

TPM CONVERTIBLE SPECIAL PANEL



TSM SUB-MAIN PANEL



Convertible Main Panels

Single-phase, 3-wire, 120/240 Volts, A-c

Main circuit breakers or lugs not included.

Main Rating (Amperes)	Usable 1-pole Spaces		Complete Device Less Breakers			
			NEMA 1 Enclosure①		Raintight Enclosure②	
			Cat. No. F—Flush S—Surface	List Price Each	Cat. No. RH—For Universal Hub①	List Price Each
	1" TQL	1 1/2" TQP				

DOUBLE SECTION

150 and 200	16	32	TPM1620F, S③	\$26.50	TPM1620RH②	\$38.50
	24	40	TPM2420F, S③	38.00	TPM2420RH②	46.50
	32	40	TPM3220F, S③	49.50	TPM3220RH②	69.00

SINGLE SECTION WITH SUB-FEED PROVISIONS

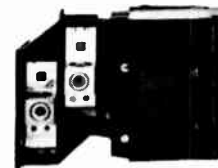
150 and 200	14	28	TSM1412F, S③	\$26.50	TSM1412HR②	\$36.50
	14	28	TSM1420F, S③	33.50	TSM1420HR②	44.00

ENCLOSURE FOR TWO MAX 100-AMP SUB FEEDS

150 and 200	—	—	TL420F, S③	\$18.50	TL420RH②	\$29.00
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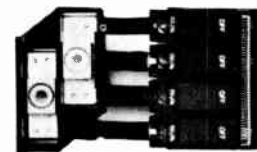
Convertible Main Kits
Plug-in Main Lugs

Amp	Cat. No.	List Price Each
200	TPPL120	\$3.60



Plug-in Main Breakers
4-POLE BREAKER SINGLE DISCONNECT

Amp	Cat. No.	List Price Each
120	TMB120	\$38.00
150	TMB150	38.00
180	TMB180	38.00
200	TMB200	38.00



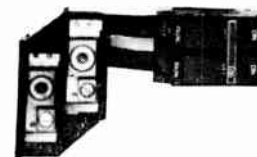
2 INDEPENDENT 2-POLE BREAKERS PARALLEL

Amperes	Cat. No.	List Price Each
150 (2-75A C/B's)	TDM150	\$38.00
200 (2-100A C/B's)	TDM200	38.00



ONE 2-POLE BREAKER PLUS 100-AMP SUB-FEED LUGS

Amperes	Cat. No.	List Price Each
200 (1-100A C/B 2-100A S.F. Lugs)	TMM200	\$31.00



① Device has hole in endwall for plate-type Universal hub and comes complete with a closing cap. Order hub separately.
② Available Sept. 1967.
③ Available July 1967.

*Trade-mark of General Electric Company.

The Above Items Are Subject to 50% Discount

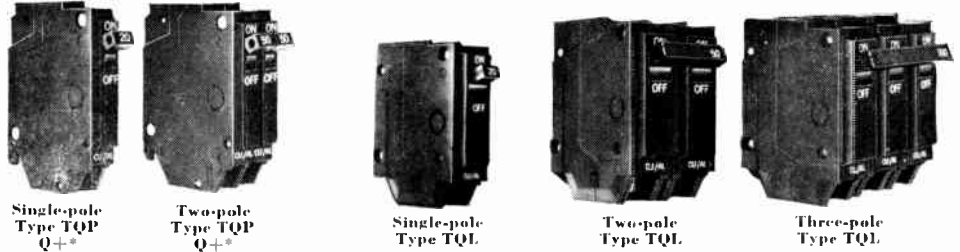
**GENERAL ELECTRIC SERVICE-ENTRANCE EQUIPMENT
Circuit Breakers for Power Mark+* Load Centers**

Circuit breakers on this page comply with Federal Government Specifications W-C-375a Amendment 3 dated Feb. 18, 1965 as follows: Types TR and "Q" Line, Class 1. U/L listed. All devices on this page standard with lugs for copper or aluminum wire either ambient compensated or enclosure compensated.

"Q" LINE PLUG-IN MOLDED-CASE CIRCUIT BREAKERS

Interrupting Capacity

- Type TQP 5,000 Amperes
- Type TQL 5,000 Amperes
- Type THQL 10,000 Amperes
- Type TXQL 75,000 Amperes



Amp	TYPE TQP Q + 1/2" Module 120/240 V, A-c		TYPE TQL 1" Module 120/240 V, A-c				HI-BREAK TYPE THQL 1" Module 120/240 V, A-c				TYPE TXQL 1" Module 120/240 V, A-c						
	Cat. No.	List Price Each	Cat. No.	List Price Each	High Magnetic ^③		Cat. No.	List Price Each	240 V, A-c		Cat. No.	List Price Each					
					Cat. No.	List Price Each			Cat. No.	List Price Each							
SINGLE-POLE ④													SINGLE-POLE ④	SINGLE-POLE ④	SINGLE-POLE	TWO-POLE	SINGLE-POLE
10	TQP115 TQP120 TQP130 TQP140 TQP150 \$2.80		TQL1110	\$2.80		TQL1110HM	\$2.80		THQL1110 ^②	\$5.70		THQL22010 ^②	\$18.00		TXQL1115	\$10.50	
15			TQL1115 ^①			TQL1115HM			THQL1115			THQL22015			TXQL1120		
20			TQL1120 ^①			TQL1120HM			THQL1120			THQL22020			TXQL1130		
30			TQL1130			TQL1130HM			THQL1130			THQL22030			TXQL1120		
40			TQL1140			TQL1140HM			THQL1140			THQL22040			TXQL1130		
50			TQL1150			TQL1150HM			THQL1150			THQL22050					
60									THQAL1160			THQAL22060					
70									THQAL1170			THQAL22070					
90												THQAL22080					
100												THQAL22100					
Ship Wt. .8 lb./carton of 24.			8 lb./carton of 24.			8 lb./carton of 24.			6 lb./carton of 12.		8 lb./carton of 24.						
TWO-POLE ④													TWO-POLE	TWO-POLE	THREE-POLE	SINGLE-POLE	
10	TQP215 TQP220 TQP230 TQP240 TQP250 \$6.60		TQL2110	\$6.60		THQL2110 ^②	\$13.50		THQL32010 ^②	\$22.50		TXQL2115	\$26.20				
15			TQL2115			THQL2115			THQL32015			TXQL2120					
20			TQL2120			THQL2120			THQL32020			TXQL2130					
30			TQL2130			THQL2130			THQL32030								
40			TQL2140			THQL2140			THQL32040								
50			TQL2150			THQL2150			THQL32050								
60			TQAL2160			THQAL2160			THQAL32060								
70			TQAL2170			THQAL2170			THQAL32070								
90			TQAL21090			THQAL21090			THQAL32090								
100			TQAL21100			THQAL21100			THQAL32100								
Ship Wt. .6 lb./carton of 12.			6 lb./carton of 12.			6 lb./carton of 12.		7 lb./carton of 8.		6 lb./carton of 12.							

TR "TWIN" CIRCUIT BREAKERS

120/240 Volts, A-c
5000 Amp IC ④



Amp		Cat. No.	List Price Each
Left	Right		
15	15	TRP1515L	\$5.60
15	20	TRP1520L	
20	15	TRP2015L	
20	20	TRP2020L	

Ship. wt 8 lb./carton of 24.

5000 Amp IC, Two 2-pole,
120/240 Volts, A-c ④



Amp	Cat. No. (Includes Handle Ties)	List Price Each
15-15	TRP4115L	\$11.20
20-20	TRP4120L	
30-20	TRP4132L	
30-30	TRP4130L	
30-40	TRP4143L	
40-20	TRP4142L	
40-40	TRP4140L	

Ship. wt 10 lb./carton of 12.

MASTER MAIN* KITS



5000A IC, 2-pole, 120/240 V-a-c

Amperes	Cat. No.	List Price
70	TLMB070	\$13.50
90	TLMB090	18.20
100	TLMB100	18.20
125	TLMB125	42.00

LUG-WIRE SIZE

Breaker Type	Ampere Rating	Lug Wire Size	
		Cu	Cu-Al
TR	15-30 40	#14-8 #8	#14-8 8-6
"Q" Line 2 & 3 P	10-100	#14-1/0	#12-1/0
"Q" Line 1P	10-20 30-50	#14-8 #10-4	#14-10 #10-4
TQD	125-225	300MCM	

①May be ordered 100 per carton. Specify "Bulk Pack" on order.

②10 ampere not U/L listed.

③High magnetic setting for high-wattage tungsten filament loads or other high-in-rush load currents.

④Single pole TQL and TRP "TWIN" breakers enclosure compensated.

**TYPE TQD BREAKERS—Bolt-on
Ambient Compensated 10000 Amp IC**



Amp	2-pole 120/240 Volts	List Price Each	2-pole 240 Volts	List Price Each	3-pole 240 Volts	List Price Each
150	TQD21150WL	42.00	TQD22150WL	42.00	TQD32150WL	113.00
175	TQD21175WL	42.00	TQD22175WL	42.00	TQD32175WL	113.00
200	TQD21200WL	42.00	TQD22200WL	42.00	TQD32200WL	113.00
225	TQD21225WL	42.00	TQD22225WL	42.00	TQD32225WL	113.00

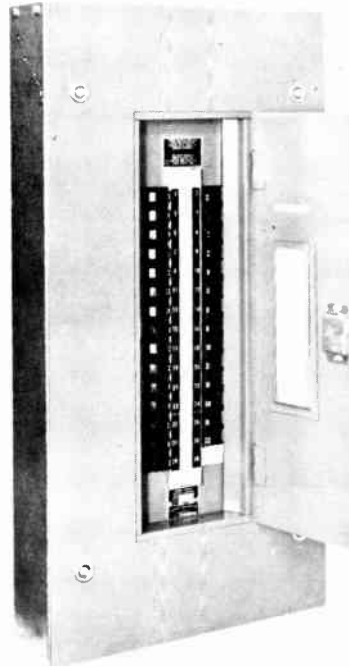
CIRCUIT BREAKER ENCLOSURES—240 Volts, A-c (Neutrals Included)

Breaker Type	Amp	Poles	F—Flush, S—Surface			Raintight		
			Cat. No.	List Price Each	Ship Wt (Lb)	Cat. No.	List Price Each	Ship Wt (Lb)
TQL	100	2 or 3	TQL100F, S	12.50	7	TQL100RH	18.50	8
TQL	100	2	TL210F, S	6.00	5	TL210RH	11.00	7
TQD	225	2 or 3	TQD225F, S	16.50	11	TQD225R, RH	48.00	12

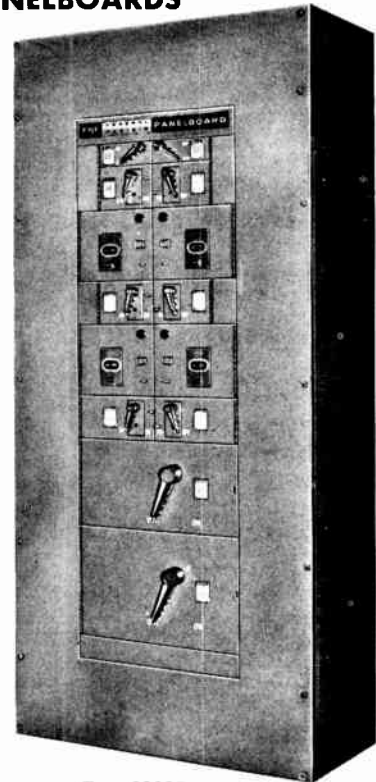
*Trade Mark of General Electric Company

The Above Items Are Subject to 50% Discount

FPE CIRCUIT BREAKER AND FUSIBLE PANELBOARDS



Type NALP circuit breaker panelboard



Type QMQB fusible panelboard

Standards

All Federal Pacific panelboards meet the following standards except where otherwise noted:

1. National Electrical Code—1965.
2. NEMA publication No. PB1-1957.
3. Underwriters' Laboratories, Inc.
 - A. Panelboards, U. L. 67
 - B. Cabinets and boxes, U. L. 50.
4. Federal Specifications
 - A. Panelboards, W-P-115a (January 7, 1963).
 - B. Circuit Breakers, W-C-375a, Amendment-3.

PANELBOARD CODE REQUIREMENTS

Column Type Panelboards used with cable troughs are subject to National Electrical Code Section 362-5 which reads "Wireways shall not contain more than 30 current carrying conductors at any cross section. The sum of the cross-sectional areas of all contained conductors at any cross-section of a wireway shall not exceed 20 per cent of the interior cross-sectional area of the wireway."

Exception No. 1. See Section 620-32.

The correction factors specified in Note 8 to Tables 310-12 through 310-15 are not applicable to the foregoing.

Exception No. 2. Conductors for signal circuits or controller conductors between a motor and its starter and used only for starting duty shall not be considered as current carrying conductors.

Therefore, if the neutral bar is mounted in the panelboard, 3 feeder wires and 27 branch circuit wires or 4 feeder wires and 26 branch circuit wires are permitted. If a separate neutral wire is run for each circuit, the largest panelboard acceptable would be 12 circuits. However, if common neutral conductors are used, the number of circuits in the panelboard could be increased.

In view of this ruling, it is advantageous and more economical to have the neutral bar mounted in the pullbox. Under the Code ruling, it would then be permissible to run 2 feeder wires and 28 branch circuit wires or 3 feeder wires and 27 branch circuit wires in the cable trough.

42 Circuit Rule—Underwriters' Laboratories, Inc. defines an over-current device as a single fuse holder or circuit breaker pole;

Ordering Information

The following data should accompany all orders for panelboards:

1. Type or catalog number.
2. Type of service: _____ phase, _____ wire, _____ volts.
3. Type of mains: main lugs, main breaker, or main switch.
4. Location of mains: top or bottom.
5. Ampere rating of
 - (a) Mains _____.
 - (b) Wire size feeding panel. (No. per phase and neutral).

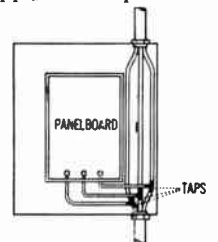
therefore, panelboards having more than 42 poles and covered by the following rulings must be built as two panelboards.

N. E. C. Paragraph 384-14—states "a lighting and appliance branch circuit panelboard is one having more than 10% of its overcurrent devices rated 30 amperes or less, for which neutral connections are provided."

N. E. C. Paragraph 384-15—states "not more than 42 over-current devices of a lighting and appliance branch circuit panelboard shall be installed in any one cabinet or cutout box."

"A two-pole circuit breaker shall be considered two over-current devices; a three-pole breaker shall be considered three overcurrent devices."

Panelboard Gutter Taps—N. E. C. Paragraph 240-15 states "overcurrent devices shall be located at the point where the conductor to be protected receives its supply." Exception No. 5 to this paragraph permits omission of the main overcurrent device if, "(1) the smaller conductor has a current-carrying capacity of not less than the sum of the allowable current-carrying capacities for conductors of the one or more circuits or loads supplied, (2) the tap is not over 10 feet long and does not extend beyond the switchboard, panelboard or control devices which it supplies."



Gutter taps as illustrated are permitted under this ruling.

6. Branch circuits:
 - (a) Number of branch circuits.
 - (b) Ampere rating of each branch circuit.
 - (c) Number of poles (1, 2, or 3 pole).
 - (d) Type of breaker or switch.
7. Type of trim: flush or surface.
8. Special features or modifications.
9. Customer panel identification.

FPE CIRCUIT BREAKER AND FUSIBLE PANELBOARD SELECTION CHART

CIRCUIT BREAKER PANELBOARDS

Panelboard Type	Maximum Voltage		Max. Main Bus (Amp)	Max. Main Breaker (Amp)	Max. Branch Circuit (Amp)	Ckt. Breaker Type	No. of Poles	Voltage Rating		INTERRUPTING RATING (NEMA)						Federal Spec. W-P-115a, Type I
	A.C.	D.C.						A.C.	D.C.	A.C.				D.C.		
										120 V.	240 V.	480 V.	600 V.	125 V.	250 V.	
NALP (unassembled)	240	—	225	225	50 100 100	NA	1 2 3	120/240 120/240 240	— — —	5M	—	—	—	—	—	1a 1a 1b
NALP (unassembled)	240	—	600	400						5M	—	—	—	—	—	
NALP	240	—	225	225						—	5M	—	—	—	—	
NALP	240	—	600	600						—	—	—	—	—	—	
NALP-IX(X)	240	—	200	100	50 50	NA	1, 2 3	120/240 240	— —	5M —	— 5M	— —	— —	— —	1a 1b	
NBLP	240	—	225	225	50 100 100	NB	1 2 3	120/240 120/240 240	— — —	5M	—	—	—	—	1a 1a 1b	
NBLP	240	—	600	600						5M	—	—	—	—		
NBLP-IX(X)	240	—	200	100						50 50	NB	1, 2 3	120/240 240	— —		5M —	— 5M	— —	— —	1a 1b
NA1B	240	125/250	225	225	50	NE NEF	1 2, 3	120/240 240	125 125/250	7.5M —	— 20M	— —	— 5M	— 10M	2b 2c, 2d Ⓢ	
NDP	240	125/250	600	600	100	NE NEF	1 2, 3	120/240 240	125 125/250	7.5M —	— 20M	— —	— 5M	— 10M	2b 2c, 2d Ⓢ	
NH1B	277/480	125/250	225	225	50	NEF	1 2, 3	277 480	125 125/250	20M —	10MⓈ 20M	— 15M	— —	10M 10M	— —	2a 2c, 2d Ⓢ
NH1DP	480	125/250	600	600	50 100	NEF	1 2, 3	277 480	125 125/250	15M —	10MⓈ 20M	— 15M	— —	10M 10M	— —	2a 2c, 2d Ⓢ
CDP	600	250	1200	800	50 100 100 225 400 800	NEF NEF NF NFJ NJL NM	1 2, 3 2, 3 2, 3 2, 3 2, 3	277 480 600 600 600 600	125 125/250 250 250 250 250	20M — — — — —	10MⓈ 20M 20M 30M 50M 50M	— 15M 15M 15M 35M 35M	— — 15M 15M 25M 25M	10M — 10M — 10M 20M 20M	— — 10M 10M 20M 20M	2a, 2b 2d 2d 3a, 3b/4 4b 5
STABreaker (unassembled)	600	250	600	400	20 100 100 400	NC-S NE-S NF-S NJ-S	1 2, 3 2, 3 2, 3	120 240 600 600	— 125/250 250 250	5M — — —	— 7.5M 20M 50M	— — 15M 15M	— — — 25M	— 5M — 10M 10M	— — 10M 10M	1a 2c 2b 4b

FUSIBLE PANELBOARDS

Panelboard Type	Maximum Voltage		Max. Main Bus (Amp)	Max. Branch Circuit (Amp)	Type of Fusible Device	Device Rating (Amp)	No. of Poles	VOLTAGE RATINGS				Federal Spec. W-P-115a	
	A.C.	D.C.						Single		Twin			
								A.C.	D.C.	A.C.	D.C.		
NTIP	120/240	125/250	200	30	Toggle Sw. and FuseⓈ	30	1	120/240	125	—	—	Type III	
Flexunit (unassembled)	600	250	600	200	Plug in Pull switch Units	30/30 30/60 60/60	2, 3 2, 3 2, 3	— — —	— — —	240 or 600 240 or 600 240 or 600	250 250 250	Type III	
						100 100/100 200	2, 3 2, 3 2, 3	240 or 600 — 240	250 — 250	— 240 —	— 250 —	— 250 —	
Convertible QMQB	600	250	1200	1200		Front Operated Switch	30/30 60/60 100/100	2, 3 2, 3 2, 3	— — —	— — —	240 or 600 240 or 600 240	250 250 250	Type II
							30, 60, 100 200, 400, 600 800, 1200	2, 3 2, 3 2, 3	240 or 600 240 or 600 240 or 600	250 250 250	— — —	— — —	— — —

Ⓢ277V. rating.
 Ⓢ Except 600V., A.C., 250V., D.C.
 Ⓢ Furnished in 4 section block only.
 Ⓢ Except 600V., A.C.

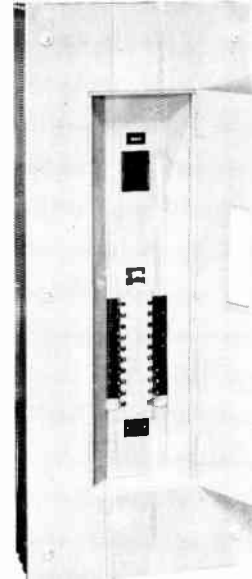
FPE CIRCUIT BREAKER PANELBOARDS factory assembled

With Type NB, Bolt-in Thermal-Magnetic Branch Breakers

TYPE NBLP 1 ϕ 3W. S/N, 120/240 volts, A.C.
225A MAIN 3 ϕ 4W. S/N, 120/208 volts, A.C.
MAX. 3 ϕ 3W., 240 volts, A.C.

- Branches:** 15 amp, 120 volt, single pole, type NB circuit breakers. 20, 30, 40, and 50 ampere breakers available at no extra cost.* See footnotes for 2 and 3 pole, common trip circuit breakers.
- Boxes:** Code gauge galvanized steel, 16" wide by 4 $\frac{3}{4}$ " deep except 225 ampere main breaker panels which are 6" deep.
- Gutters:** Minimum 4" side and 5" end.
- Trims:** Code gauge steel, phosphatized and finished in gray enamel. Flush or surface mounting trims are available.
- Flush fronts will be furnished unless otherwise specified.**

*Increase of bus bar ratings should be considered when branch circuit breaker ratings exceed 15 amps. Bus rating limited to 225 amps maximum.



No. of Poles	Amp Mains	Catalog Number	List Price	Box Height	Approx. Shipping Weight	Box Catalog No.
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Mains: 1 Phase 3 Wire Lugs Only

8	100	NBLP08-3L	\$108.00	24"	45	B41624
10	100	NBLP10-3L	119.00		45	B41624
12	100	NBLP12-3L	131.00		53	B41624
14	100	NBLP14-3L	142.00	30"	54	B41630
16	100	NBLP16-3L	153.00		55	B41630
18	100	NBLP18-3L	165.00		55	B41630
20	100	NBLP20-3L	176.00		56	B41630
22	225	NBLP22-3L	191.00		72	B41630
24	225	NBLP24-3L	203.00		73	B41630
26	225	NBLP26-3L	214.00	33"	73	B41633
28	225	NBLP28-3L	225.00		73	B41633
30	225	NBLP30-3L	237.00		74	B41633
32	225	NBLP32-3L	248.00		75	B41633
34	225	NBLP34-3L	260.00	39"	85	B41639
36	225	NBLP36-3L	271.00		86	B41639
38	225	NBLP38-3L	282.00		86	B41639
40	225	NBLP40-3L	293.00		87	B41639
42	225	NBLP42-3L	304.00		89	B41639

Mains: 1 Phase 3 Wire 2 Pole Circuit Breaker

8	70	NBLP08-3AB	\$142.00	30"	53	B41630
10	70	NBLP10-3AB	153.00		53	B41630
12	70	NBLP12-3AB	185.00		68	B41630
14	100	NBLP14-3AB	196.00	30"	69	B41630
16	100	NBLP16-3AB	208.00		70	B41630
18	100	NBLP18-3AB	220.00		70	B41630
20	100	NBLP20-3AB	231.00		71	B41630
22	225	NBLP22-3AB	403.00	45"	103	B61645
24	225	NBLP24-3AB	414.00		104	B61645
26	225	NBLP26-3AB	425.00		104	B61645
28	225	NBLP28-3AB	437.00		105	B61645
30	225	NBLP30-3AB	448.00		106	B61645
32	225	NBLP32-3AB	459.00		116	B61645
34	225	NBLP34-3AB	471.00	51"	117	B61651
36	225	NBLP36-3AB	482.00		117	B61651
38	225	NBLP38-3AB	493.00		118	B61651
40	225	NBLP40-3AB	505.00		118	B61651
42	225	NBLP42-3AB	516.00		120	B61651

Common Trip Breakers Type NB

- 2 Pole (15-50A), add \$0.70 to Two 1 Pole Breakers.
- 2 Pole (70A), add \$6.80 to Two 1 Pole Breakers.
- 2 Pole (100A), add \$5.20 to Four 1 Pole Breakers.
- 3 Pole (15-50A), add \$12.70 to Three 1 Pole Breakers.
- 3 Pole (70A), add \$18.70 to Three 1 Pole Breakers.
- 3 Pole (100A), add \$13.40 to Six 1 Pole Breakers.

No. of Poles	Amp Mains	Catalog Number	List Price	Box Height	Approx. Shipping Weight	Box Catalog No.
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Mains: 3 Phase 4 Wire Lugs Only

8	100	NBLP08-4L	\$118.00	24"	47	B41624
10	100	NBLP10-4L	130.00		47	B41624
12	100	NBLP12-4L	141.00		47	B41624
14	100	NBLP14-4L	152.00	30"	54	B41630
16	100	NBLP16-4L	164.00		55	B41630
18	100	NBLP18-4L	175.00		55	B41630
20	100	NBLP20-4L	186.00		72	B41630
22	100	NBLP22-4L	197.00		72	B41630
24	100	NBLP24-4L	209.00		73	B41630
26	100	NBLP26-4L	221.00	33"	73	B41633
28	100	NBLP28-4L	232.00		74	B41633
30	100	NBLP30-4L	243.00		75	B41633
32	225	NBLP32-4L	262.00	39"	89	B41639
34	225	NBLP34-4L	273.00		90	B41639
36	225	NBLP36-4L	284.00		90	B41639
38	225	NBLP38-4L	295.00		91	B41639
40	225	NBLP40-4L	306.00		91	B41639
42	225	NBLP42-4L	318.00		92	B41639

Mains: 3 Phase 4 Wire 3 Pole Circuit Breaker

8	50	NBLP08-4AB	\$168.00	30"	54	B41630
10	50	NBLP10-4AB	179.00		54	B41630
12	50	NBLP12-4AB	190.00		54	B41630
14	100	NBLP14-4AB	201.00	30"	70	B41630
16	100	NBLP16-4AB	235.00		71	B41630
18	100	NBLP18-4AB	246.00		71	B41630
20	100	NBLP20-4AB	258.00		39"	87	B41639
22	100	NBLP22-4AB	269.00	87		B41639
24	100	NBLP24-4AB	280.00	88		B41639
26	100	NBLP26-4AB	291.00	88		B41639
28	100	NBLP28-4AB	302.00	89		B41639
30	100	NBLP30-4AB	315.00	90		B41639
32	225	NBLP32-4AB	521.00	51"	125	B61651
34	225	NBLP34-4AB	532.00		126	B61651
36	225	NBLP36-4AB	544.00		126	B61651
38	225	NBLP38-4AB	555.00		127	B61651
40	225	NBLP40-4AB	567.00		127	B61651
42	225	NBLP42-4AB	578.00		128	B61651

SPACE ONLY: Deduct \$3.10 for each pole omitted.

OMIT SOLID NEUTRAL: Deduct \$11.00.

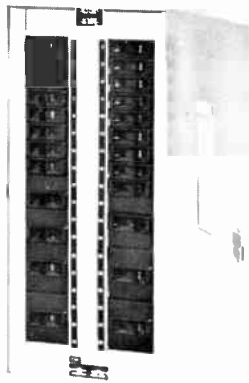
SPECIAL FEATURES available.

OVER-SIZE BOX: 20" wide x 5 $\frac{3}{4}$ " deep with 6" side gutters is available at no extra charge. Specify special width on order.

The above items are subject to 48.5% Discount.

FPE CIRCUIT BREAKER PANELBOARDS factory assembled

With Type NEF Thermal-Magnetic Branch Breakers



TYPE NHDP
600A MAIN MAX.
480 VOLTS, A.C.

- Main Lugs:** 600 amp max.
- Main Breaker:** 600 amp max.
- Branches:** 1, 2, and 3 pole Type NEF circuit breakers, 15 through 100 amp.
- Boxes:** Code gauge galvanized steel, 20" wide by 7 1/4" deep.
- Gutters:** Minimum 4" side and 6" end.
- Trim:** Code gauge steel, phosphatized and finished in gray enamel. Flush or surface mounting trim available.

Surface type will be furnished unless otherwise specified.

TO DETERMINE TOTAL LIST PRICE

1. Use correct Base Price.
2. Add price and "X units" for each Branch Circuit.
3. Add price and "X units" for each space required.
4. Add price and "X units" of required Special Features.
5. Total all prices. This is the list price of the panel.
6. Total all "X units" and select cabinet height corresponding with proper main bus size from Cabinet Dimension table.

Base List Prices

Amp	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W
100	\$ 85.	\$ 65.	\$ 75.	\$ 60.
225	90.	80.	80.	70.
400	130.	110.	110.	80.
600	170.	130.	150.	105.

With Main Lugs

Amp	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W
100	\$ 85.	\$ 65.	\$ 75.	\$ 60.
225	90.	80.	80.	70.
400	130.	110.	110.	80.
600	170.	130.	150.	105.

With Main Circuit Breaker

Amp	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W
50	135. (3X)	125. (3X)	110. (2X)	90. (2X)
100	155. (3X)	145. (3X)	130. (2X)	110. (2X)
225	350. (18X)	325. (18X)	280. (18X)	265. (18X)
400	550. (18X)	520. (18X)	450. (18X)	420. (18X)
600	920. (24X)	800. (24X)	720. (24X)	680. (24X)

Branch Circuit List Prices

Type of Branch	1 Pole	2 Pole	3 Pole
NEF 15, 20, 30, 40, 50	\$19. (1X)	\$59. (2X)	\$76. (3X)
NEF 70, 100	31. (1X)	73. (2X)	90. (3X)
Space ★	4. (1X)	7. (2X)	9. (3X)

Split Bus or Meter Loop

Main Amps	2 Pole	3 Pole
225	\$26. (12X)	\$37. (12X)
400	55. (18X)	65. (18X)
600	65. (18X)	72. (18X)

Sub Feeds (Maximum of one per panel)

Amps	LUGS		CIRCUIT BREAKERS	
	2 Pole	3 Pole	2 Pole	3 Pole
50	\$11.	\$16.	\$ 59. (4X)	\$ 76. (6X)
100	11.	16.	73. (4X)	90. (6X)
225	11.	16.	193. (30X)	242. (30X)
400	32.	40.	338. (30X)	417. (30X)

★Includes provisions for future breakers.

Estimating Example

277/480V 3 Ø 4W		
Base 225A 3P Main Circuit Breaker	\$350.00	18X
2—15A 3P NEF Breakers	152.00	6X
2—Size 1 3P Non Reversing Starters	250.00	13X
1—50A 3P NEF Breaker	76.00	3X
1—70A 3P NEF Breaker	90.00	3X
Total List Price	\$918.00	43X
Box Size 54 7/8" H x 20" W x 7 1/4" D		

PMS Starter Only Price—3 Pole Non-Reversing Class 4204 Starter

Max. NEMA Size	STARTER HP		CIRCUIT BREAKER SIZE AMP.		LIST PRICE STARTER UNIT ONLY		X Units
	Left Unit	Right Unit	Left Unit	Right Unit	Wired	Space Only	

220 Volts

0 - 3	—	20	—	\$145.	\$43.	13X
0 - 0	3	3	20	20	224.	43.
1 - 7 1/2	—	50	—	164.	43.	13X
1 - 0	7 1/2	3	50	20	243.	43.
1 - 1	7 1/2	7 1/2	50	50	250.	43.

440 Volts

0 - 5	—	15	—	145.	43.	13X
0 - 0	5	5	15	15	224.	43.
1 - 10	—	30	—	164.	43.	13X
1 - 0	10	5	30	15	243.	43.
1 - 1	10	10	30	30	250.	43.

List Prices Include Heaters: Units will be shipped with overload heaters.

Order heaters from Redi-Reference.

Consult your local FPE field office for prices and dimensions on additional PMS Starters available.

Accessories for PMS Motor Starters

Start-Stop Push button (Wired)	\$11.
Forward-Reverse-Stop Push button (Wired)	54.
Selector Switch (Wired)	11.
Pilot Light (includes Interlock when required)	36.
Interlock (I-N.O.) (Unwired)	16.

Cabinet Dimension Table

Total "X Units"	CABINET HEIGHT		Total "X Units"	CABINET HEIGHT	
	225 Amp Mains	400 & 600 Amp Mains		225 Amp Mains	400 & 600 Amp Mains
UP to 6X	30 1/4"	30 1/4"	37X to 42X	50 3/4"	54 7/8"
7X to 12X	30 1/4"	34 1/4"	43X to 48X	54 7/8"	59"
13X to 18X	34 1/4"	38 3/8"	49X to 54X	59"	63 1/4"
19X to 24X	38 3/8"	42 1/2"	55X to 60X	63 1/4"	67 1/2"
25X to 30X	42 1/2"	46 3/8"	61X to 66X	67 1/4"	71 3/8"
31X to 36X	46 3/8"	50 3/4"	67X to 72X	71 3/8"	75 1/2"

To find approximate Panelboard Weight multiply total "X Space" Units by 4.4 lbs.

The above items are subject to 48.5% Discount.

FPE CIRCUIT BREAKER PANELBOARDS factory assembled

With NEF, NF, NFJ, NJL, NM Standard; HF, HFJ, HM High Line Thermal-Magnetic Breakers

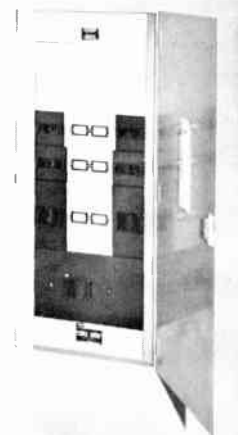
TYPE CDP

**1200A MAIN MAX.
600 VOLTS, A.C.**

- Service Voltage:** 600 volts, A.C. or 250 volts, D.C.
- Main Lugs:** 1200 amp max.
- Main Breaker:** 1200 amp max.
- Branches:** 1, 2, or 3 pole NEF and 2 or 3 pole NF, NFJ, NJL, and NM (also High Line circuit breakers in ratings from 15 to 800 amperes).
- Boxes:** Code gauge galvanized steel. Size is determined by frame size of circuit breakers as follows:

	Up to 225A	225A-800A	1000A-1200A
Cabinet Width	29"	38"	38"
Cabinet Depth	8 3/4"	8 3/4"	12"
Side Gutters	4 1/2"	9"	9"
End Gutters	Up to 400A 8" Over 400A 12"		12"

- Trims:** Code gauge steel, phosphatized and finished in gray enamel. Flush or surface trims available
- Surface type will be furnished unless otherwise specified.**



TO DETERMINE TOTAL LIST PRICE

1. Use correct base price for main lug or main breaker.
2. Add price and "X Units" for each Branch Circuit.
3. Add price and "X Units" for each space required.
4. Add price and "X Units" of sub feeds and meter loops, if required.

5. Add price and "X Units" of special features.
6. Add price and "X Units" of PMS Motor Starters, if required.
7. Total all prices—This is list price of panel.
8. Total "X Units" and select cabinet height to correspond with proper main bus size from cabinet dimension table.

Base List Prices

Amp	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W
With Main Lugs				
225	\$115.	\$ 90.	\$115.	\$ 90.
400	165.	130.	165.	130.
600	215.	170.	215.	170.
800	265.	210.	265.	210.
1200	365.	290.	365.	290.

With Main Circuit Breaker				
225	360. (3X)	330. (3X)	310. (3X)	280. (3X)
400	600. (6X)	570. (6X)	520. (6X)	490. (6X)
600	980. (12X)	940. (12X)	810. (12X)	770. (12X)
800	1270. (12X)	1220. (12X)	1075. (12X)	1015. (12X)
1000	1620. (■)	1540. (■)	1425. (■)	1350. (■)
1200	2100. (■)	2020. (■)	1890. (■)	1810. (■)

With High Line Main Circuit Breaker				
225	630. (3X)	610. (3X)	545. (3X)	520. (3X)
400	880. (6X)	850. (6X)	760. (6X)	725. (6X)
600	1130. (12X)	1090. (12X)	970. (12X)	925. (12X)
800	1420. (12X)	1365. (12X)	1240. (12X)	1185. (12X)

Main Amperes	SUB FEED LUGS		SPLIT BUS OR METER LOOP	
	2 Pole	3 Pole	2 Pole	3 Pole
225	\$ 18.	\$ 24.	\$ 46. (12X)	\$ 55. (12X)
400	37.	43.	55. (18X)	65. (18X)
600	65.	72.	65. (18X)	72. (18X)
800	92.	102.	92. (24X)	102. (24X)
1200	110.	120.	110. (24X)	119. (24X)

Branch Circuit List Prices

Frame and Type	BREAKER	No. Poles	LIST PRICE			
			250V. A.C. 250V. D.C.	480V. A.C. (NEF) 600V A.C. 250V. D.C.	Space ★ Only	X Units
NEF*	15, 20, 30, 40, 50 Amp	1 2 3	\$19. 39. 56.	\$ 22. 62. 80.	\$ 5. 6. 8.	1X 2X 3X
	70, 100 Amp	2 3	57. 75.	76. 94.	6. 8.	2X 3X
	15, 20, 30, 40, 50 Amp	2 3	— —	71. 92.	6. 8.	3X 3X
NF*	70, 100 Amp	2 3	— —	87. 108.	6. 8.	3X 3X
	125, 150, 175, 225 Amp	2 3	— —	193. 242.	8. 8.	3X 3X
NJL	250, 300, 350, 400 Amp	2 3	— —	338. 417.	13. 18.	6X 6X
	250, 300, 350, 400 Amp	2 3	— —	368. 453.	37. 37.	12X 12X
NM†	500, 600 Amp	2 3	— —	556. 731.	37. 37.	12X 12X
	700, 800 Amp	2 3	— —	737. 953.	37. 37.	12X 12X
	15-100 Amp	2 3	— —	125. 145.	6. 8.	3X 3X
HFJ	70-225 Amp	2 3	— —	420. 510.	8. 8.	3X 3X
	125-400 Amp	2 3	— —	590. 710.	37. 37.	12X 12X
HM	500, 600 Amp	2 3	— —	725. 890.	37. 37.	12X 12X
	700, 800 Amp	2 3	— —	890. 1100.	37. 37.	12X 12X

† Interchangeable trip.

* NOTE: Breakers of different frame sizes cannot be mounted opposite each other. Add X units for blank space when required.

★ Provisions for future breakers, refer to factory.

■ Refer to factory.

When panelboard or box heights exceed these dimensions, estimate as two or more single panels adding sub-feed lugs to all but one panel. To find approximate Panelboard weight multiply total "X Units" by 8.5 lbs.

Cabinet Dimension Table

Total "X Units"	CABINET HEIGHT	
	Up to and Including 400 Amp Mains	600 to 1200 Amp Mains
Up to 12X	35 1/8"	43 3/8"
13X to 24X	43 3/8"	51 5/8"
25X to 36X	51 5/8"	59 7/8"
37X to 48X	59 7/8"	68 1/8"
49X to 60X	68 1/8"	76 3/8"
61X to 72X	76 3/8"	84 5/8"
73X to 84X	84 5/8"	92 7/8"

The above items are subject to 48.5% Discount.

FPE FUSIBLE PANELBOARDS factory assembled

With QMQB Fusible Switch Units up to 1200 Amperes

TYPE QMQB CONVERTIBLE — 600V., A.C.; 250V., D.C.

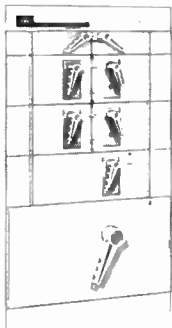
Main Lugs: 1200 amps. max.
Main Switch: 1200 amps. max.
Branches: 2 and 3 pole Type QMQB Fusible Switches, 30 through 1200 amps.
Cabinet: Code gauge galvanized steel. Size is determined by size of QMQB Switch as follows:

	Up to 100A.	Over 100A.
Cabinet Width	29"	38"
Cabinet Depth	8 ³ / ₄ "	8 ³ / ₄ "
Side Gutters	4 ¹ / ₂ "	9"
End Gutters	Up to 400A. 8"	Over 400A. 12"

Trims: Code gauge steel, phosphatized and finished in gray lacquer. Flush or surface trims available.

Surface Type will be furnished unless otherwise specified.

Door: Door optional. Add \$70 list and increase box depth to 12".



TO DETERMINE TOTAL LIST PRICE

1. Use correct base price for main lug or main switch.
2. Add price and "X Units" for each branch circuit.
3. Add price and "X Units" for spaces only.
4. Add price and "X Units" of sub feeds and meter loops, if required.
5. Add price and "X Units" of special features.
6. Add price and "X Units" of PMS Motor Starters, if required.
7. Total all prices. This is list price of panel. Fuses not included.
8. Total "X Units" and select cabinet height from cabinet dimension table below.

Base List Price

Amp	WITH MAIN LUGS				WITH MAIN FUSIBLE SWITCH—250 VOLTS				WITH MAIN FUSIBLE SWITCH—600 VOLTS			
	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W	3 Ø 4W	3 Ø 3W	1 Ø 3W	1 Ø 2W
200	\$115.	\$ 90.	\$115.	\$ 90.	\$ 270. (14X)	\$ 245. (14X)	\$ 230. (14X)	\$ 210. (14X)	\$ 320. (14X)	\$ 290. (14X)	\$ 300. (14X)	\$ 250. (14X)
400	162.	130.	162.	130.	525. (20X)	490. (20X)	420. (20X)	390. (20X)	620. (20X)	590. (20X)	530. (14X)	475. (14X)
600	216.	170.	216.	170.	750. (24X)	700. (24X)	630. (24X)	580. (24X)	800. (24X)	750. (24X)	700. (16X)	640. (16X)
800	275.	210.	275.	210.	1150. (46X)	1100. (46X)	1050. (46X)	900. (46X)	1150. (46X)	1100. (46X)	1050. (46X)	900. (46X)
1200	365.	290.	365.	290.	1400. (46X)	1350. (46X)	1200. (46X)	1150. (46X)	1400. (46X)	1350. (46X)	1200. (46X)	1150. (46X)

Branch Circuit Switch List Prices

Type Switch	Main Switch Branch or Amps.	250 VOLTS			600 VOLTS		
		2 Pole	3 Pole	Space Only ★	2 Pole	3 Pole	Space Only
Double Branch Unit	30-30 (2 ¹ / ₂ "	\$ 50. (4X)	\$ 65. (4X)	\$ 6. (4X)	—	—	—
	30-30 (5 ¹ / ₂ "	60. (8X)	82. (8X)	12. (8X)	\$ 89. (8X)	\$ 108. (8X)	\$ 15. (8X)
	30-60	60. (8X)	82. (8X)	12. (8X)	89. (8X)	108. (8X)	15. (8X)
	60-60	60. (8X)	82. (8X)	12. (8X)	89. (8X)	108. (8X)	15. (8X)
	60-100	91. (8X)	114. (8X)	12. (8X)	—	—	—
Single Branch Unit	100-100	91. (8X)	114. (8X)	15. (8X)	—	—	—
	100	45. (8X)	57. (8X)	15. (8X)	67. (10X)	86. (10X)	15. (10X)
	200	112. (14X)	157. (14X)	21. (14X)	151. (14X)	201. (14X)	21. (14X)
	400	246. (14X)	356. (20X)	30. (20X)	335. (14X)	454. (20X)	30. (20X)
	600	383. (16X)	503. (24X)	36. (24X)	437. (16X)	551. (24X)	36. (24X)
	800*	670. (46X)	900. (46X)	70. (46X)	690. (46X)	900. (46X)	70. (46X)
	1200*	770. (46X)	1020. (46X)	70. (46X)	770. (46X)	1020. (46X)	70. (46X)

*Maximum 1 per panel.

Main Amps	SUB FEED LUGS		SPLIT BUS OR METER LOOP	
	2 Pole	3 Pole	2 Pole	3 Pole
200	\$ 18.	\$ 24.	\$ 46. (12X)	\$ 55. (12X)
400	37.	43.	55. (18X)	65. (18X)
600	65.	72.	65. (18X)	72. (18X)
800	92.	102.	92. (24X)	102. (24X)
1200	110.	120.	110. (24X)	119. (24X)

★For provisions for future switches, refer to factory.

Cabinet Dimensions

Total "X Units"	CABINET HEIGHT	
	Up to and including 400 Amp Mains	600 to 1200 Amp Mains
Up to 12X	35 ¹ / ₄ "	43 ³ / ₄ "
13X to 24X	43 ³ / ₄ "	51 ⁵ / ₈ "
25X to 36X	51 ⁵ / ₈ "	59 ¹ / ₂ "
37X to 48X	59 ¹ / ₂ "	68 ¹ / ₂ "
49X to 60X	68 ¹ / ₂ "	76 ³ / ₄ "
61X to 72X	76 ³ / ₄ "	84 ⁵ / ₈ "
73X to 84X	84 ⁵ / ₈ "	92 ⁷ / ₈ "

When panelboard or box heights exceed these dimensions, estimate as two or more single panels adding sub-feed lugs to all but one panel.

The above items are subject to 48.5% Discount.

I-T-E PANELBOARDS

PANELBOARD CODE DATA

42-CIRCUIT RULE: N.E.C. Paragraph 384-14 defines a lighting and appliance branch-circuit Panelboard as one having more than 10 percent of its overcurrent devices rated 30 amperes or less, for which neutral connectors are provided.

N.E.C. Paragraph 384-15 states not more than 42 overcurrent devices of a lighting and appliance branch-circuit panelboard shall be installed in any one cabinet. For the purposes of this article a two-pole circuit breaker shall be considered two overcurrent devices; a three-pole circuit breaker shall be considered three overcurrent devices.

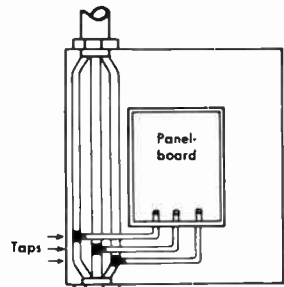
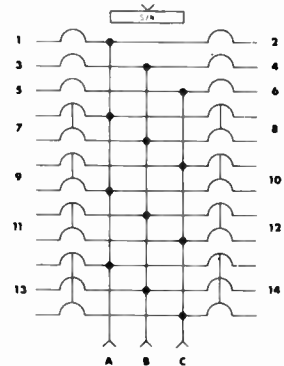
SIX-CIRCUIT RULE: N.E.C. Paragraph 230-70 provides that a device may be suitable for service equipment when not more than six (6) main disconnecting means are provided. In addition, a disconnect means shall be provided for the ground conductor.

30-CONDUCTOR RULE: N.E.C. Paragraph 362-5 states that wireways shall not contain more than 30 conductors at any cross section, unless the conductors are for signaling or motor control. It further states that the total cross-sectional areas of all the conductors shall not exceed 20 percent of the internal cross section of the wireway.

Column panels or panels fed by a single wireway are limited to three main conductors and 27 branch and neutral conductors (12-circuit panelboard 1Ø 3W). When the neutral bar is mounted in a column-panel pullbox, this will be changed to two main conductors and 28 branch circuits (28-circuit panelboard).

GUTTER-TAP RULE: N.E.C. Paragraph 240-15 states overcurrent devices shall be located at the point where the conductor to be protected receives its supply. Exception No. 5 to this paragraph permits omission of the main overcurrent device if (1) the smaller conductor has a current carrying capacity of not less than the sum of the allowable current carrying capacities of the one or more circuits or loads supplied and (2) the tap is not over 10 feet long and does not extend beyond the panelboard it supplies.

Gutter taps, as illustrated at the right, are permitted under this ruling.



PANELBOARD RATINGS

SPECIFICATIONS:

Listed by Underwriters' Laboratories, Inc., under "Panelboards" File #E2269.

Meet Federal Specifications W-P-115a, dated January 7, 1963, Type I, Class 1 for circuit-breaker panels, Type II, Class 1 for Vacu-Break fusible panels.

Also Available:

NDP—600A Mains, 225A Max. Branch Breaker, 120 / 240V Ac, 250V Dc.

NHDP—600A Mains, 100A Max. Branch Breaker, 277 / 480V Ac.

NTP, NTC—200A Mains, 30A Max. Branch Tumbler Switch and Fuse, 120 / 240V Ac.

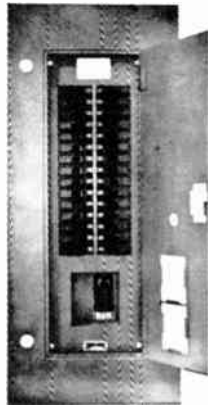
NHCB—225A Mains, 30A Max. Branch Energy-Limiting Breaker, 277 / 480V Ac.

Motor Starter Panelboards.

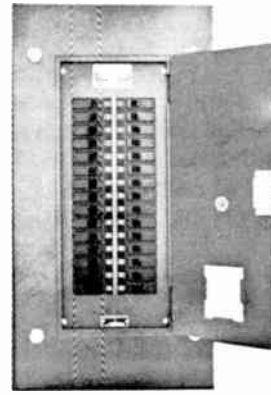
PANELBOARD					BRANCH CIRCUIT BREAKER							
Type	Max. Volts		Mains Rating Amperes	Max. Branch Amperes	Type	No. of Poles	Max. Rating Amperes	Volts				
	Ac	Dc						Ac	Dc			
NPAB	240	—	600	100	EQ-P	1 2 3	50 100 100	120 / 240	—			
								120 / 240 240	—			
NLAB	240	—	600	100	EQ-B	1 2 3	50 100 100	120 / 240	—			
								120 / 240 240	—			
NAB	240	250	225	100	E	1 2, 3	100	120 240	125 250			
NHB	480	—	225	100	E EH	1 2, 3	50 100	277	—			
								480	250			
CDP	600	—	1200	800	E EH EF QJ FJ JJ JKL KM	1 1 2, 3	50	277	—			
							50	120	125			
							100	240	250			
							100	480	250			
							225	600	250			
							225	600	250			
VB-23 VB-30 VB-32	250 600 600	250 250 250	600 1200 1200	200 200 600	(Fusible Switch Units)							
										400	600	250
										400	600	250

**I-T-E CIRCUIT BREAKER PANELBOARDS
NLA UNASSEMBLED**

FOR USE WITH EQ®-B (BOLTED) CIRCUIT BREAKERS



Single Main



Main Lugs only

240 V A-C MAX. 1 ϕ ,2W; 1 ϕ 3W; 3 ϕ ,3W; 3 ϕ ,4W—NLA Unassembled Panelboard Takes EQ-B (Bolted) Breakers, which carry UL and NEMA ratings of 5000 Asymmetrical interrupting capacity. Breakers meet Federal Spec. W-C 375a dated Feb. 18, 1965 for Class 1. Panelboards listed by Underwriters' Laboratories, Inc. under "Panel Base Assemblies" File #E23615, meet Fed. Spec. W-P 115a dated January 7, 1963 for Type I, Class 1.

Mains Rating Amperes	Max. No. of Poles	COMPLETE ENCLOSURE— Less Breakers			Box Only			Front Only	
		Cat. No. Add Suffix S-Surface F-Flush	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No.	List Price	Height Inches	Flush Cat. No. for Surface Change F to S	List Price

NLA-3 1 PHASE, 3 WIRE SN 120/240 VOLT A-C

MAIN LUG PANELS									
100	12	NLA12-3L	\$78.	32	15B20	\$18.	20	15F20	\$25.
	18	NLA18-3L	91.	39	15B23	19.	23	15F23	26.
125	24	NLA24-3L▲	\$100.	47	15B26	20.	26	15F26	27.
225	30	NLA30-3L	113.	56	15B29	21.	29	15F29	28.
	36	NLA36-3L	123.	65	15B32	22.	32	15F32	29.
	42	NLA42-3L	132.	74	15B35	23.	35	15F35	30.
MAIN BREAKER PANELS‡ 2 POLE									
100	12	NLA12-3AB	133.	39	15B23	19.	23	15F23	26.
	18	NLA18-3AB	145.	48	15B26	20.	26	15F26	27.
	20	NLA20-3AB	148.	61	15B29	21.	29	15F29	28.
225	30	NLA30-3AB	324.	72	15B35	23.	35	15F35	30.
	36	NLA36-3AB	334.	81	15B38	24.	38	15F38	31.
	42	NLA42-3AB	343.	92	15B41	25.	41	15F41	32.

NLA-4 3 PHASE, 4 WIRE SN 120/208 VOLT A-C

MAIN LUG PANELS									
100	12	NLA12-4L	89.	33	15B20	18.	20	15F20	\$25.
	18	NLA18-4L	101.	40	15B23	19.	23	15F23	26.
	24	NLA24-4L	110.	48	15B26	20.	26	15F26	27.
	30	NLA30-4L	119.	57	15B29	21.	29	15F29	28.
225	36	NLA36-4L	136.	66	15B32	22.	32	15F32	29.
	42	NLA42-4L	145.	75	15B35	23.	35	15F35	30.
MAIN BREAKER PANELS‡ 3 POLE									
100	12	NLA12-4AB	138.	42	15B23	19.	23	15F23	26.
	18	NLA18-4AB	172.	50	15B26	20.	26	15F26	27.
	24	NLA24-4AB	181.	59	15B29	21.	29	15F29	28.
	30	NLA30-4AB	191.	64	15B32	22.	32	15F32	29.
225	36	NLA36-4AB	396.	83	15B38	24.	38	15F38	31.
	42	NLA42-4AB	405.	94	15B41	25.	41	15F41	32.

‡ Main Circuit Breaker—Installed and included in List Price for Complete Enclosure only.

▲ Available in special order with 225A Main Lugs, List Price \$104.00.

BOXES: 15" Wide, 4 $\frac{3}{4}$ " Deep.

GUTTERS: 4" Top, bottom and sides.

The Above Items Are Subject to 50% Discount

EQ-B BREAKERS

Rating Amperes	Cat. No.	List Price
1 POLE 120/240 VOLT A-C		
15	BQ1-B015	\$3.60
20	BQ1-B020	
30	BQ1-B030	
40	BQ1-B040	
50	BQ1-B050	
2 POLE 120/240 VOLT A-C		
15	BQ2-B015	\$7.90
20	BQ2-B020	
30	BQ2-B030	
40	BQ2-B040	\$15.00
50	BQ2-B050	
60	BQ2-B060	
70	BQ2-B070	20.10
90	BQ2-B090	
100	BQ2-B100	20.10
2 POLE 240 VOLT A-C		
15	BQ2-H015	\$20.10
20	BQ2-H020	
30	BQ2-H030	
40	BQ2-H040	\$23.10
50	BQ2-H050	
60	BQ2-H060	
70	BQ2-H070	
90	BQ2-H090	\$23.10
100	BQ2-H100	
3 POLE 240 VOLT A-C		
15	BQ3-B015	\$25.00
20	BQ3-B020	
30	BQ3-B030	
40	BQ3-B040	
50	BQ3-B050	
70	BQ3-B070	\$32.00
90	BQ3-B090	
100	BQ3-B100	37.00

MAINS:

Main Lug Panels

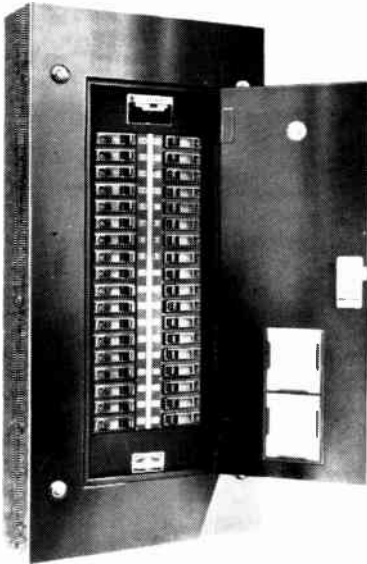
Rating Amperes	Connectors Suitable for Cu or Al
100, 125	1—#1-#1/0 Awg.
225	1—#6 Awg.-250 MCM

Main Breaker Panels

Rating Amperes	Breaker Frame	Connectors Suitable for Cu or Al
100	E	1—#1/0 Awg.
225	QJ	1—#4 Awg.-300 MCM

**I-T-E CIRCUIT-BREAKER PANELBOARDS
NPAB PLUG-IN, NLAB BOLTED—ASSEMBLED**

**225-AMPERE MAINS
240 VOLTS A-C
100A MAX. BRANCH**



**NPAB-3
NLAB-3** 1 PHASE, 3 WIRE SN
120/240 VOLT AC

Mains Rating Amperes	Number of Poles	Catalog Number Add Suffix, S-Surf, F-Flush		List Price
		NPAB Plug-In	NLAB Bolted	
MAIN LUG PANELS				
100	8	NPAB08-3L	NLAB08-3L	\$105.
	10	NPAB10-3L	NLAB10-3L	117.
	12	NPAB12-3L	NLAB12-3L	129.
125	14	NPAB14-3L	NLAB14-3L	141.
	16	NPAB16-3L	NLAB16-3L	153.
	18	NPAB18-3L	NLAB18-3L	165.
225	20	NPAB20-3L	NLAB20-3L	177.
	22	NPAB22-3L	NLAB22-3L	189.
	24	NPAB24-3L	NLAB24-3L	201.
225	26	NPAB26-3L	NLAB26-3L	213.
	28	NPAB28-3L	NLAB28-3L	225.
	30	NPAB30-3L	NLAB30-3L	237.
225	32	NPAB32-3L	NLAB32-3L	249.
	34	NPAB34-3L	NLAB34-3L	261.
	36	NPAB36-3L	NLAB36-3L	273.
225	38	NPAB38-3L	NLAB38-3L	285.
	40	NPAB40-3L	NLAB40-3L	297.
	42	NPAB42-3L	NLAB42-3L	309.
MAIN BREAKER PANELS—2 POLE				
50	8	NPAB08-3AB	NLAB08-3AB	141.
	10	NPAB10-3AB	NLAB10-3AB	153.
100	12	NPAB12-3AB	NLAB12-3AB	183.
	14	NPAB14-3AB	NLAB14-3AB	195.
	16	NPAB16-3AB	NLAB16-3AB	207.
	18	NPAB18-3AB	NLAB18-3AB	219.
100	20	NPAB20-3AB	NLAB20-3AB	231.
	22	NPAB22-3AB	NLAB22-3AB	400.
225	24	NPAB24-3AB	NLAB24-3AB	412.
	26	NPAB26-3AB	NLAB26-3AB	424.
225	28	NPAB28-3AB	NLAB28-3AB	436.
	30	NPAB30-3AB	NLAB30-3AB	448.
225	32	NPAB32-3AB	NLAB32-3AB	460.
	34	NPAB34-3AB	NLAB34-3AB	472.
	36	NPAB36-3AB	NLAB36-3AB	484.
	38	NPAB38-3AB	NLAB38-3AB	496.
225	40	NPAB40-3AB	NLAB40-3AB	508.
	42	NPAB42-3AB	NLAB42-3AB	520.

**NPAB-4
NLAB-4** 3 PHASE, 4 WIRE SN
120/208 VOLT AC

Mains Rating Amperes	Number of Poles	Catalog Number Add Suffix, S-Surf, F-Flush		List Price
		NPAB Plug-In	NLAB Bolted	
MAIN LUG PANELS				
100	8	NPAB08-4L	NLAB08-4L	\$116.
	10	NPAB10-4L	NLAB10-4L	128.
	12	NPAB12-4L	NLAB12-4L	140.
100	14	NPAB14-4L	NLAB14-4L	152.
	16	NPAB16-4L	NLAB16-4L	164.
	18	NPAB18-4L	NLAB18-4L	176.
225	20	NPAB20-4L	NLAB20-4L	188.
	22	NPAB22-4L	NLAB22-4L	200.
	24	NPAB24-4L	NLAB24-4L	212.
225	26	NPAB26-4L	NLAB26-4L	224.
	28	NPAB28-4L	NLAB28-4L	236.
	30	NPAB30-4L	NLAB30-4L	248.
225	32	NPAB32-4L	NLAB32-4L	260.
	34	NPAB34-4L	NLAB34-4L	272.
	36	NPAB36-4L	NLAB36-4L	284.
225	38	NPAB38-4L	NLAB38-4L	296.
	40	NPAB40-4L	NLAB40-4L	308.
	42	NPAB42-4L	NLAB42-4L	320.
MAIN BREAKER PANELS—3 POLE				
50	8	NPAB08-4AB	NLAB08-4AB	167.
	10	NPAB10-4AB	NLAB10-4AB	179.
	12	NPAB12-4AB	NLAB12-4AB	191.
100	14	NPAB14-4AB	NLAB14-4AB	203.
	16	NPAB16-4AB	NLAB16-4AB	235.
100	18	NPAB18-4AB	NLAB18-4AB	247.
	20	NPAB20-4AB	NLAB20-4AB	259.
225	22	NPAB22-4AB	NLAB22-4AB	271.
	24	NPAB24-4AB	NLAB24-4AB	283.
225	26	NPAB26-4AB	NLAB26-4AB	295.
	28	NPAB28-4AB	NLAB28-4AB	307.
	30	NPAB30-4AB	NLAB30-4AB	319.
225	32	NPAB32-4AB	NLAB32-4AB	520.
	34	NPAB34-4AB	NLAB34-4AB	532.
	36	NPAB36-4AB	NLAB36-4AB	544.
	38	NPAB38-4AB	NLAB38-4AB	556.
225	40	NPAB40-4AB	NLAB40-4AB	568.
	42	NPAB42-4AB	NLAB42-4AB	580.

**600-AMPERE MAINS
240 VOLTS A-C
100A MAX. BRANCH
BASE PRICE—MAIN LUGS**

Poles	Mains—Amperes			
	100	225	400	600
2	\$55.	\$62.	\$84.	\$107.
3	65.	75.	100.	123.

BASE PRICE—MAIN BREAKER

Poles	Mains—Amperes, Breaker			
	100 E	100 EH*	225 QJ	400 JJ
2	\$109.	\$131.	\$273.	\$428.
3	136.	159.	335.	511.

* Use with 10,000A—I. C. branches.

NEUTRAL ADDER

Mains—Amperes			
100A	225A	400A	600A
\$11.	\$11.	\$33.	\$47.

* For 1Ø 3W or 3Ø 4W.

BRANCH CIRCUIT BREAKERS

Rating Amperes	1 Pole—1 Inch		2 Pole—2 Inches		3 Pole—3 Inches	
	120V	120/240V	240V	240V	240V	240V
5,000 AMPERES I.C.						
Space Only	\$2.50	\$5.00	\$5.00	\$7.50		
15-50	6.00	13.00	23.00	30.00		
60	6.00	13.00	23.00	—		
70	—	19.00	23.00	37.00		
90	—	23.00	26.00	41.00		
100	—	23.00	26.00	41.00		
10,000 AMPERES I.C.						
15-20	8.00	—	23.00	30.00		
30-40-50	9.00	—	23.00	30.00		
60	—	—	23.00	—		
70	—	—	23.00	37.00		
90-100	—	—	26.00	41.00		

† Suitable for 3-Phase, 3-wire systems.

BOX SELECTION

Height Inches	Box Col. No.	Available Circuit Space—Number of Poles							
		100 Amperes		225 Amperes		400 Amperes		600 Amperes	
		Main Lugs	Main Breaker E	Main Lugs	Main Breaker QJ	Main Lugs	Main Breaker JJ	Main Lugs	Main Lugs
20	15B20	12	—	—	—	—	—	—	—
23	15B23	18	—	—	—	—	—	—	
26	15B26	24	18	—	—	—	—	—	
29	15B29	30	24	30	—	—	—	—	
32	15B32	—	30	36	—	—	—	—	
35	15B35	—	—	42	30	—	—	—	
38	15B38	—	—	—	36	—	—	—	
41	15B41	—	—	—	42	—	—	—	
41	20C41	—	—	—	—	30	—	30	
47	20C47	—	—	—	—	42	—	42	
50	20C50	—	—	—	—	—	30	—	
56	20C56	—	—	—	—	—	42	—	

The Above Items Are Subject to 50% Discount

I-T-E CIRCUIT-BREAKER PANELBOARDS

NAB-225-AMPERE MAINS
240 VOLTS A-C, 250 VOLTS D-C
NAB-3

Mains Rating Amperes	Number of Poles	Cat. No. Add Suffix S-Surface, F-Flush	List Price	
MAIN LUG PANELS				
100	8	NAB08-3L	\$178.	
	10	NAB10-3L	206.	
	12	NAB12-3L	234.	
	14	NAB14-3L	262.	
	16	NAB16-3L	290.	
225	18	NAB18-3L	318.	
	20	NAB20-3L	346.	
	22	NAB22-3L	374.	
	24	NAB24-3L	402.	
	26	NAB26-3L	430.	
	28	NAB28-3L	458.	
	30	NAB30-3L	486.	
32	NAB32-3L	514.		
34	NAB34-3L	542.		
36	NAB36-3L	570.		
225	38	NAB38-3L	598.	
	40	NAB40-3L	626.	
	42	NAB42-3L	654.	
	MAIN BREAKER PANELS—2 POLE			
	50	8	NAB08-3AB	214.
10		NAB10-3AB	242.	
100	12	NAB12-3AB	288.	
	14	NAB14-3AB	316.	
	16	NAB16-3AB	344.	
	18	NAB18-3AB	372.	
	20	NAB20-3AB	400.	
225	22	NAB22-3AB	585.	
	24	NAB24-3AB	613.	
	26	NAB26-3AB	641.	
	28	NAB28-3AB	669.	
	30	NAB30-3AB	697.	
	32	NAB32-3AB	725.	
	34	NAB34-3AB	753.	
	36	NAB36-3AB	781.	
	38	NAB38-3AB	809.	
	40	NAB40-3AB	837.	
42	NAB42-3AB	865.		

100A MAX. BRANCH
NAB-4

Mains Rating Amperes	Number of Poles	Cat. No. Add Suffix S-Surface, F-Flush	List Price	
MAIN LUG PANELS				
100	8	NAB08-4L	\$186.	
	10	NAB10-4L	214.	
	12	NAB12-4L	242.	
	14	NAB14-4L	270.	
	16	NAB16-4L	298.	
	18	NAB18-4L	326.	
	20	NAB20-4L	354.	
225	22	NAB22-4L	382.	
	24	NAB24-4L	410.	
	26	NAB26-4L	438.	
	28	NAB28-4L	466.	
	30	NAB30-4L	494.	
	32	NAB32-4L	528.	
	34	NAB34-4L	556.	
36	NAB36-4L	584.		
225	38	NAB38-4L	612.	
	40	NAB40-4L	640.	
	42	NAB42-4L	668.	
	MAIN BREAKER PANELS—3 POLE			
	50	8	NAB08-4AB	239.
10		NAB10-4AB	267.	
12		NAB12-4AB	295.	
14		NAB14-4AB	323.	
100	16	NAB16-4AB	369.	
	18	NAB18-4AB	398.	
	20	NAB20-4AB	426.	
	22	NAB22-4AB	454.	
	24	NAB24-4AB	482.	
	26	NAB26-4AB	510.	
	28	NAB28-4AB	538.	
30	NAB30-4AB	565.		
225	32	NAB32-4AB	788.	
	34	NAB34-4AB	816.	
	36	NAB36-4AB	844.	
	38	NAB38-4AB	872.	
	40	NAB40-4AB	900.	
42	NAB42-4AB	928.		

NHB-225-AMPERE MAINS
480 VOLTS A-C, 100A MAX. BRANCH
NHB-4 3 PHASE, 4 WIRE SN, 277/480V

Mains Rating Amperes	Number of Poles	Cat. No. Add Suffix S-Surf., F-Flush	List Price	
MAIN LUG PANELS				
100	8	NHB08-4L	\$216.	
	10	NHB10-4L	251.	
	12	NHB12-4L	286.	
	14	NHB14-4L	321.	
	16	NHB16-4L	356.	
	18	NHB18-4L	391.	
	20	NHB20-4L	426.	
225	22	NHB22-4L	461.	
	24	NHB24-4L	496.	
	26	NHB26-4L	531.	
	28	NHB28-4L	566.	
225	30	NHB30-4L	601.	
	32	NHB32-4L	643.	
	34	NHB34-4L	678.	
36	NHB36-4L	713.		
225	38	NHB38-4L	748.	
	40	NHB40-4L	783.	
	42	NHB42-4L	818.	
	MAIN BREAKER PANELS—3 POLE			
	50	8	NHB08-4AB	289.
10		NHB10-4AB	324.	
12		NHB12-4AB	359.	
14		NHB14-4AB	394.	
100	16	NHB16-4AB	446.	
	18	NHB18-4AB	481.	
	20	NHB20-4AB	516.	
	22	NHB22-4AB	551.	
	24	NHB24-4AB	586.	
	26	NHB26-4AB	621.	
	28	NHB28-4AB	656.	
30	NHB30-4AB	691.		
225	32	NHB32-4AB	902.	
	34	NHB34-4AB	937.	
	36	NHB36-4AB	972.	
	38	NHB38-4AB	1007.	
	40	NHB40-4AB	1042.	
42	NHB42-4AB	1077.		

CDP—1200-AMPERE MAINS
600 VOLTS A-C, 800A MAX. BRANCH
BASE PRICE—MAIN LUGS

Maximum Branch Circuit	Mains—Amperes				
	225	400	600	800	1200
225	\$89.	\$111.	\$144.	\$178.	\$247.
800	—	134.	178.	214.	299.

BASE PRICE—MAIN BREAKER

Poles	Mains—Amperes, Breaker			
	225 FJ	400 JJ	600 KM	800 KM
2	\$288.	\$492.	\$797.	\$1040.
3	338.	574.	967.	1260.

NEUTRAL ADDER

Mains—Amperes				
225	400	600	800	1200
\$26.	\$33.	\$47.	\$67.	\$79.

For 1 Ø 3W or 3 Ø 4W.

BRANCH CIRCUIT BREAKERS

Breaker Frame	Rating Amperes	Rating Volts AC	2 POLE			3 POLE		
			Height Inches	Breaker Installed	Space Only	Height Inches	Breaker Installed	Space Only
1-Pole Breakers Only								
E (1 Pole Only)	15-50 15-20	120 277	1½	\$20. 23.	\$6.	—	—	—
E	15-50 70-100	240	3	40. 58.	7.	4½	\$57. 77.	\$9.
EH	15-50 70-100	480		64. 78.			82. 96.	
EF	15-50 70-100	600		73. 89.			94. 111.	
QJ	125-225	240		178.			227.	
FJ	70-225	600		199.			249.	
JJ	250-400	600	9	348.	19.	9	429.	19.
JKL	70-225 250-400	600		252. 379.			320. 466.	
KM	250-600 700-800	600		583. 759.			753. 982.	

BOX SELECTION

Height Inches	Box Cat. No.	Available Circuit Space (Double Branch)—Inches							
		225A		400A		600, 800A		1200A	
		Main Lugs	Main Breaker FJ	Main Lugs	Main Breaker JJ	Main Lugs	Main Breaker KM	Main Lugs	Main Lugs
32" WIDE—9" DEEP*									
38	W320938	18	13½	18	9	—	—	—	—
47	W320947	27	22½	27	18	18	—	—	—
56	W320956	36	31½	36	27	27	—	—	—
65	W320965	45	40½	45	36	36	—	—	—
74	W320974	54	49½	54	45	45	—	—	—
83	W320983	—	—	—	—	—	—	—	—
38" WIDE—9½" DEEP*									
47	W380947	—	—	—	—	18	—	—	—
56	W380956	—	—	—	—	27	16½	—	—
65	W380965	—	—	—	—	36	25½	33	—
74	W380974	—	—	—	—	45	34½	42	—
83	W380983	—	—	—	—	54	43½	51	—

* 38" Wide Box must be used when JKL or KM breakers are required. 32" Wide Box may be used in all other cases.

The Above Items Are Subject to 50% Discount

I-T-E VACU-BREAK® FUSIBLE PANELBOARDS



VB-23—600-AMPERE MAINS
250 VOLTS A-C OR D-C
200A MAX. BRANCH

BASE PRICE—MAIN LUGS

Poles	Mains—Amperes		
	200	400	600
2	\$62.	\$84.	\$107.
3	75.	100.	123.

BASE PRICE—MAIN SWITCH

Poles	Vacu-Break Mains—Amperes	
	100	200
2	\$106.	\$177.
3	134.	237.

NEUTRAL ADDER

Mains—Amperes		
200	400	600
\$26.	\$33.	\$47.

* For 1 Ø 3W or 3 Ø 4W

Fuses Not Included in Prices.

BRANCH SWITCHES

Vacu-Break Rating Amperes	Unit Height Inches	List Price		
		2 Pole	3 Pole	Space
TWIN UNIT-BRANCH ONLY				
30-30	2½	\$44.	\$61.	\$15.
30-30	5	57.	80.	23.
30-60	5	57.	80.	23.
60-60	5	57.	80.	23.
SINGLE UNIT-BRANCH OR MAIN				
100	7½	44.	59.	28.
200	7½	115.	—	28.
200	10	—	162.	33.

BOX SELECTION

Height Inches	Cat. No.	System	Available Circuit Space—Inches							
			100A		200A		400A		600A	
			Main Lugs	Main Switch	Main Lugs	Main Switch	Main Lugs	Main Switch	Main Lugs	Main Switch
38½	W23838	1 Ø 2W, 1 Ø 3W, 3 Ø 4W	22½ 22½	15 15	22½ 22½	12½ 12½	20 17½	—	—	
53½	W23853	1 Ø 2W, 1 Ø 3W, 3 Ø 4W	35 32½	27½ 25	35 32½	25 22½	35 32½	32½ 30	32½ 30	
68½	W23868	1 Ø 2W, 1 Ø 3W, 3 Ø 4W	50 47½	42½ 40	50 47½	40 37½	50 47½	47½ 45	47½ 45	

VB-30—1200-AMPERE MAINS
250 VOLTS A-C OR D-C 600 VOLTS A-C
200A MAX. BRANCH

1200-AMPERE MAINS—VBB-32
250 VOLTS A-C OR D-C 600 VOLTS A-C
600A MAX. BRANCH

BASE PRICE—MAIN LUGS

Maximum Branch Circuit	Mains—Amperes				
	200	400	600	800	1200
200	\$89.	\$111.	\$144.	\$178.	\$247.
600	—	134.	178.	214.	299.

BASE PRICE—MAIN SWITCH

Poles	Vacu-Break Mains—Amperes					
	250 Volts AC or DC			600 Volts AC		
	100, 200	400*	600*	200	400*	600*
2	\$204.	\$398.	\$609.	\$244.	\$489.	\$655.
3	250.	511.	732.	296.	612.	782.

NEUTRAL ADDER

Mains—Amperes				
200	400	600	800	1200
\$26.	\$33.	\$47.	\$67.	\$79.

* For 1 Ø 3W or 3 Ø 4W.

Fuses Not Included in Prices.

BRANCH SWITCHES

Vacu-Break Rating Amperes	Unit Height Inches	250 VOLTS AC or DC			600 VOLTS AC		
		List Price			List Price		
		2 Pole	3 Pole	Space	2 Pole	3 Pole	Space
TWIN UNIT							
30-30	2½	\$52.	\$67.	\$15.	—	—	—
30-30	5	62.	84.	28.	7½	\$92.	\$111.
30-60	5	62.	84.	28.	7½	92.	111.
60-60	5	62.	84.	28.	7½	92.	111.
100-100	7½	94.	117.	42.	7½	138.	178.
SINGLE UNIT							
100	—	—	—	42.	7½	69.	89.
200	7½	115.	—	—	—	—	—
200	10	—	162.	56.	10	156.	207.
400*	15	253.	367.	84.	15	345.	468.
600*	15	395.	518.	84.	15	450.	568.

BOX SELECTION

Height, Inches	Cat. No.	Available Circuit Space—Total Unit Height, Inches					
		200A		400A	600A	800A	1200A
		Main Lugs	Main Switch				
VB-30 30" WIDE, 8¾" DEEP*							
38½	W30938	17½	7½	15	—	—	—
53½	W30953	32½	22½	30	30	—	—
68½	W30968	—	—	45	45	—	—
86	W30986	—	—	62½	62½	60	57½
VB-32 32" WIDE, 12¼" DEEP*							
53½	W321253	30	15	—	—	—	—
68½	W321268	45	30	—	—	—	42½
86	W321286	62½	47½	—	—	—	60

* VB-32, 32" Wide Box, must be used for all 400- and 600-ampere Main or Branch Switch Units. VB-30, 30" Box, may be used for all others.

* 400A only.

The Above Items Are Subject to 50% Discount

I-T-E PUSHMATIC® ELECTRICCENTERS®



PUSHMATIC ELECTRI-CENTER FEATURES

LOAD CENTERS

Positive Bolted Connection of Breakers Direct to Solid Silvered-Copper Bus Bars
 Lugs Suitable for Copper or Aluminum Conductors (100A and Larger)
 All Required Components Supplied at Purchase
 Full Insulated Groundable Neutrals
 Solid Straight-Through Bus Construction for Split Bus Panels — No Wires to Connect
 Factory-Installed Lighting Mains for Split Bus and Main Disconnect Panels
 Interiors Easily Adjusted to Meet Mounting Requirements
 Code Gauge Steel, Grey Enamel Finish
 Neat, New Look — Factory-Assembled Flat Doors with 6-20 Circuit Panels
 Combo Front — One Front for Flush or Surface Installations

CIRCUIT BREAKERS

Exclusive Push-Button Convenience Visual and Braille ON, OFF Indication
 Coil Magnetic and Thermal Protection for Each Circuit
 Positive Bolted Connection
 Identical Coil Protection for 15A and 20A Circuits
 Simultaneous Tripping for 2-Pole Breakers in Manual or Fault Operation

Pushmatic Electric-Centers are listed by Underwriters' Laboratories, Inc., under File E23615 and meet Federal Specifications W-P-115a. For more information, see Bulletin PEC-2A.

MAIN LUGS

Mains Rating Amperes	Branch Circuits				Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg.
	Max. 1 Pole Single 15-50	Duplex 15-20	Max. 2 Poles	Max. 3 Poles			

1 PHASE, 3 WIRE SN 120/240 VOLT AC

INDOOR ENCLOSURE (S-Surface, F-Flush)							
40	2	—	1	—	PL2F/S	\$3.30	28
60	4	8	2	—	PL2F/S PL4F/S	4.50 6.00	49
100	—	—	1	—	PL2AF/S	5.50	8
125	6	12	3	—	PL6F/S	6.50	9
125	8	16	4	—	PL8F/S	10.50	9

INDOOR ENCLOSURE (Combo Front)							
125	6	12	3	—	PL6	7.50	12
125	8	16	4	—	PL8	11.50	12
125	12	24	6	—	PL12	17.50	17
125	14	24	7	—	PL14	21.50	18
125	16	24	8	—	PL16	23.50	20
125	20	24	10	—	PL20	29.00	21
125	24	24	12	—	PL24	35.00	35
200	12	24	6	—	PL12A	28.00	33
200	20	40	10	—	PL20A	39.50	44
200	24	40	12	—	PL24A	41.50	37
200	28	40	14	—	PL28	43.50	35
200	40	40	20	—	PL40	60.00	41

RAINTIGHT ENCLOSURE							
40	2	—	1	—	PL2R	9.50	13
60	4	8	2	—	PL4R	11.00	13
100	—	—	1	—	PL2AR	10.50	13
125	6	12	3	—	PL6R	11.50	13
125	8	16	4	—	PL8R	20.00	14
125	12	24	6	—	PL12R	28.00	29
125	20	24	10	—	PL20R	39.50	29
200	12	24	6	—	PL12AR	38.00	33

3 PHASE, 4 WIRE SN 120/208 VOLT AC

INDOOR ENCLOSURE							
50	—	—	1	1	P4L3	8.50	12
100	—	—	1	1	P4L3A	12.50	12
125	12	24	6	4	P4L12	28.00	25
125	18	36	8	6	P4L18	32.50	30
150	24	42	12	8	P4L24A	45.00	36
150	30	42	14	10	P4L30A	49.50	41
200	30	42	14	10	P4L30B	54.00	42
200	42	42	20	14	P4L42A	71.00	52

MAIN DISCONNECT

Mains Rating Amperes	Branch Circuits				Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1
	Max. 1 Pole Single 15-50	Duplex 15-20	Max. 2 Poles	Max. 3 Poles			

1 PHASE, 3 WIRE SN 120/240 VOLT AC

INDOOR ENCLOSURE (Combo Front)							
100	6	12	3	—	PM6	\$27.00	13
100	8	16	4	—	PM8	30.00	14
100	10	20	5	—	PM10	33.00	18
100	12	20	6	—	PM12	35.50	19
100	14	20	7	—	PM14	38.50	21
100	18	20	9	—	PM18	44.50	22
100	20	20	10	—	PM20	47.00	36
150	20	30	10	—	PQM20	70.00	55
150	24	28	12	—	PQM24	76.00	36
150	28	30	14	—	PQM28	82.00	55
200	20	40	10	—	PQM20A	70.00	55
200	24	40	12	—	PM24A	76.00	36
200	28	40	14	—	PQM28A	82.00	55
200	36	40	18	—	PM36	98.50	42
200	40	40	20	—	PQM40	104.00	60

RAINTIGHT ENCLOSURE							
100	18	20	9	—	PM18R	56.50	30
200	36	40	18	—	PM36R	124.00	45

3 PHASE, 4 WIRE SN 120/208 VOLT AC

100	21	30	10	7	P4M21	74.00	36
100	27	30	13	9	P4M27	78.50	41
150	24	42	12	8	P4M24	184.00	117
150	30	42	15	10	P4M30	187.50	134
150	42	42	20	14	P4M42	202.00	159
200	30	42	15	10	P4M30A	193.00	135
200	42	42	20	14	P4M42A	207.00	160

SPLIT BUS 1 PHASE, 3 WIRE SN 120/240 VOLT A-C

Mains Rating Amperes	Main Section		Lighting Section			Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1
	60A 2 Pole Ltg. Main Assembled	Max. 2 Poles	Max. 1 Pole		Max. P2-Type 2 Poles 15-50			
			Single 15-50	Duplex 15-20				

INDOOR ENCLOSURE (Combo Front)								
125	1	1	4	8	2	PX104	\$18.00	14
125	1	1	6	12	3	PX106	21.00	14
125	1	1	8	16	4	PX108	24.00	16
125	1	2	4	8	2	PX204	21.00	14
125	1	2	6	12	3	PX206	24.00	16
125	1	2	8	16	4	PX208	27.00	16
125	1	3	6	12	3	PX306	27.00	16
125	1	3	8	14	4	PX308	30.00	19
125	1	4	6	12	3	PX406	30.00	19
125	1	4	10	14	5	PX410	35.50	19
125	1	5	8	14	4	PX508	35.50	19
125	1	5	12	14	6	PX512	41.50	35
150	1	4	10	20	5	PX410C	41.00	40
150	1	5	8	16	4	PX508C	41.00	40
150	1	5	12	20	6	PX512C	44.00	37
200	1	4	10	20	5	PX410A	46.00	40
200	1	5	8	16	4	PX508A	46.00	40
200	1	5	12	20	6	PX512A	51.00	37
200	2	4	16	32	8	PX416	59.00	35
200	2	4	24	32	12	PX424	70.50	42

RAINTIGHT ENCLOSURE								
125	1	4	10	14	5	PX410R	46.00	45
125	1	5	12	14	6	PX512R	51.50	42
150	1	4	10	20	5	PX410CR	53.00	45
150	1	5	8	16	4	PX508CR	53.00	45
150	1	5	12	20	6	PX512CR	56.00	45
200	1	4	10	20	5	PX410AR	56.00	45
200	1	5	8	16	4	PX508AR	56.00	45
200	1	5	12	20	6	PX512AR	63.00	45

The Above Items Are Subject to 50% Discount

I-T-E EQ® LOAD CENTERS

MAIN LUGS

TO ORDER INDOOR ENCLOSURE—SPECIFY BOTH CATALOG NUMBERS, FOR INTERIOR AND BOX PLUS TRIM															
Mains Rating Amperes	Branch Circuits Max. 1 Pole			List Price Complete Assembly	Box Height Inches	INDOOR ENCLOSURE						RAINTIGHT ENCLOSURE			
	All EQ-P Single	Incl. EQ-T Dual	Max. 2 Pole			Interior and Box Only			Trim Only			Complete Assembly			
						Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No. Add Prefix SU-Surf. FL-Flush	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Box Height Inches
1 PHASE, 3 WIRE SN 120/240 VOLT AC															
125	16	24		\$23.50	21	EQ 16	\$15.50	16	16		9	WEQ 16	\$33.50	30	22
150	20	30		34.00	21	EQ 20A	26.00	17	20A		9	WEQ 20A	46.50	30	22
200	12	24		28.00	18	EQ 12B	20.00	15	12B	\$8.	7	WEQ 12B	38.00	25	19
200	20	40		39.50	24	EQ 20B	31.50	19	20B		10	WEQ 20B	51.50	36	25
200	24	40		41.50	24	EQ 24B	33.50	19	24B		9	WEQ 24B	54.00	36	25
200	28	40		43.50	27	EQ 28B	35.50	24	28B		11	WEQ 28B	59.00	46	28
200	40	40		60.00	33	EQ 40B	52.00	29	40B		13	WEQ 40B	78.50	52	34
3 PHASE, 3 WIRE, 240 VOLT AC 3 PHASE, 4 WIRE SN, 120/208 VOLT AC															
125	12	24		28.00	18	EQ 412	20.00	15	12B	\$8.	7	WEQ 412	38.00	25	19
150	18	36		36.50	21	EQ 418A	28.50	16	418A		9	WEQ 418A	47.00	30	22
150	24	42		45.00	24	EQ 424A	37.00	19	24B		9	WEQ 424A	57.50	36	25
200	12	24		38.00	18	EQ 412B	30.00	15	12B	\$8.	7	WEQ 412B	48.50	25	19
200	18	36		49.00	21	EQ 418B	41.00	16	418A		9	WEQ 418B	59.00	30	22
200	24	42		51.00	24	EQ 424B	43.00	19	24B		9	WEQ 424B	63.50	36	25
200	30	42		54.00	27	EQ 430B	46.00	25	430B		11	WEQ 430B	69.00	47	28
200	42	42		71.00	33	EQ 442B	63.00	29	442B		13	WEQ 442B	89.50	51	34

SINGLE MAIN

TO ORDER INDOOR ENCLOSURE—SPECIFY BOTH CATALOG NUMBERS, FOR INTERIOR AND BOX PLUS TRIM																
Mains Rating Amperes	BRANCH CIRCUITS			List Price Complete Assembly	Box Height, Inches	INDOOR ENCLOSURE						RAINTIGHT ENCLOSURE				
	All EQ-P Single	Incl. EQ-T Dual	Max. 2 Pole			Interior and Box Only			Trim Only			Complete Assembly				
						Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No. Add Prefix SU-Surf. FL-Flush	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Box Height, Inches	
1 PHASE, 3 WIRE SN 120/240 VOLT AC																
100	12	20	6	\$35.50	18	EQ 12MB	\$27.50	15	12MB	\$8.	7	WEQ 12MB	\$46.00	25	19	
100	16	20	8	41.50	21	EQ 16MB	33.50	17	16MB		8	WEQ 16MB	51.50	29	22	
100	20	20	10	47.00	24	EQ 20MB	39.00	19	20MB		10	WEQ 20MB	59.50	34	25	
125	12	24	6	60.00	18	EQ 12MBAA	52.00	15	12MB		\$8.	7	WEQ 12MBAA	70.00	25	19
125	16	24	8	64.50	21	EQ 16MBAA	56.50	17	16MB			8	WEQ 16MBAA	77.00	29	22
125	20	24	10	70.00	24	EQ 20MBAA	62.00	19	20MB	10		WEQ 20MBAA	82.50	34	25	
150	16	30	8	64.50	24	EQ 16MBA	56.50	20	16MBA	\$8.	10	WEQ 16MBA	77.00	35	25	
150	20	30	10	70.00	24	EQ 20MBA	62.00	21	20MBA		10	WEQ 20MBA	82.50	36	25	
200	20	40	10	70.00	24	EQ 20MBB	62.00	21	20MBA	\$8.	10	WEQ 20MBB	82.50	36	25	
200	24	40	12	76.00	27	EQ 24MBB	68.00	26	24MBB		11	WEQ 24MBB	91.50	43	28	
200	28	40	14	82.00	30	EQ 28MBB	74.00	28	28MBB		12	WEQ 28MBB	100.00	48	31	
200	40	40	20	104.00	36	EQ 40MBB	96.00	32	40MBB		16	WEQ 40MBB	130.00	57	37	
3 PHASE, 3 WIRE, 240 VOLT AC 3 PHASE, 4 WIRE SN, 120/208 VOLT AC																
150	24	42	12	184.00	27	EQ 424MBA	176.00	27	424MBA	\$8.	10	WEQ 424MBA	202.50	47	28	
150	30	42	14	187.50	30	EQ 430MBA	179.50	30	430MBA		12	WEQ 430MBA	206.00	47	31	
200	30	42	14	193.00	30	EQ 430MBB	185.00	30	430MBA		12	WEQ 430MBB	211.50	47	31	
200	42	42	20	207.00	36	EQ 442MBB	199.00	39	442MBB		16	WEQ 442MBB	227.00	58	37	

SPLIT BUS

TO ORDER INDOOR ENCLOSURE—SPECIFY BOTH CATALOG NUMBERS, FOR INTERIOR AND BOX PLUS TRIM																	
Mains Rating Amperes	Main Section		Lighting Section		List Price Complete Assembly	Box Height, Inches	INDOOR ENCLOSURE						RAINTIGHT ENCLOSURE				
	Ltg. Main	Branch Circuits	Max. 1 Pole Branch Circuits	All EQ-P Single			Incl. EQ-T Duals	Box and Interior Only			Trim Only			Complete Assembly			
								Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No. Add Prefix SU-Surf. FL-Flush	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Cat. No.	List Price	Ship. Wgt. Lb./Std. Pkg. of 1	Box Height, Inches
1 PHASE, 3 WIRE SN 120/240 VOLT AC																	
125	1	2	6	12	\$17.40	18	EQ 2X6	\$9.40	14	12B	\$8.	7	WEQ 2X6	\$27.90	26	19	
125	1	3	8	14	23.40	21	EQ 3X8	15.40	16	16		9	WEQ 3X8	33.50	29	22	
150	1	3	8	14	28.40	21	EQ 3X8A	20.40	16	16		9	WEQ 3X8A	38.90	29	22	
150	1	5	8	14	34.40	21	EQ 5X8A	26.40	17	20A		9	WEQ 5X8A	46.40	29	22	
150	2	4	16	20	40.40	27	EQ 4X16A	32.40	25	28B		11	WEQ 4X16A	55.90	43	28	
200	1	5	8	14	39.40	24	EQ 5X8B	31.40	19	20B	\$8.	10	WEQ 5X8B	51.90	34	25	
200	1	5	12	14	44.40	24	EQ 5X12B	36.40	19	24B		10	WEQ 5X12B	56.40	35	25	
200	2	4	16	28	45.80	27	EQ 4X16B	37.80	25	28B		11	WEQ 4X16B	61.40	43	28	
200	2	4	24	28	57.30	30	EQ 4X24B	49.30	27	4X24B		12	WEQ 4X24B	75.90	45	31	

The Above Items Are Subject to 50% Discount

I-T-E NORMAL-DUTY CIRCUIT BREAKERS

PUSHMATIC CIRCUIT BREAKERS

Rating Amperes	Cat. No.	List Price	Ship. Pkg.	List Price Std. Pkg.	Ship. Wgt. Lb./Std. Pkg.
1 POLE—SINGLE 120/240 VOLT AC					
15 20	P-115 P-120	\$2.80	100	\$280.00	27
30 40 50	P-130 P-140 P-150		20	56.00	7
DUPLEX 120/240 VOLT AC					
15-15 15-20 20-20	P-1515 P-1520 P-2020	5.60	20	112.00	7
DOUBLE DUPLEX 120/240 VOLT AC					
30-30 30-40 40-40	P3030-2 P3040-2 P4040-2	11.20	10	112.00	7
2 POLE P2-TYPE 120/240 VOLT AC					
15 20	P-215 P-220	6.60	10	66.00	8
30 40 50 60	P-230 P-240 P-250 P-260				
70 100	P-270 P-2100	13.40 18.20		134.00 182.00	
WATER HEATER—2 POLE P2-TYPE 120/240 VOLT AC					
15 20 30	P-215WH P-220WH P-230WH	7.10	10	71.00	7
GAS STATION—2 POLE P2-TYPE 120/240 VOLT AC					
15 20	P-215GS P-220GS	9.00	10	90.00	7
2 POLE P4-TYPE 120/240 VOLT AC					
15 20	P4215 P4220	6.60	9	59.40	8
30 40 50 60	P4230 P4240 P4250 P4260				
70 100	P4270 P42100	13.40 18.20		120.60 163.80	
2 POLE P4-TYPE 240 VOLT AC					
15 20	P4215H P4220H	18.20	9	163.80	8
30 40 50 60 70	P4230H P4240H P4250H P4260H P4270H				
100	P42100H	21.20		190.80	
3 POLE P4-TYPE 240 VOLT AC					
15 20	P4315 P4320	22.70	6	136.20	8
30 40 50 60	P4330 P4340 P4350 P4360				
70 100	P4370 P43100	28.80 33.00		172.80 198.00	
3 POLE DELTA P4-TYPE 240 VOLT AC					
15 20 30 40 50	P315D P320D P330D P340D P350D	22.70	6	136.20	9

EQ® CIRCUIT BREAKERS

Rating Amperes	Cat. No.	List Price, Each	Packaging		List Price, Ship. Pkg.	Weight, Lb./Ship. Pkg.
			Carton	Ship. Pkg.		
1 POLE—EQ-P SINGLE 120/240 VOLT AC						
15 20 30 40 50	QP1-8015 QP1-8020 QP1-8030 QP1-8040 QP1-8050	\$2.80	6	90	\$252.00	28
1 POLE—EQ-T DUAL 120/240 VOLT AC						
15-15 15-20 20-20	QT1-1515 QT1-1520 QT1-2020	5.60	6	90	504.00	32
2 POLE—EQ-T QUAD 120/240 VOLT AC						
15-15 20-20 30-20 30-30	QT2-1515 QT2-2020 QT2-3020 QT2-3030	11.20	3	45	504.00	32
40-20 40-30 40-40	QT2-4020 QT2-4030 QT2-4040					
2 POLE—EQ-P 120/240 VOLT AC						
15 20 30	QP2-8015 QP2-8020 QP2-8030	6.60	3	45	297.00	30
40 50 60	QP2-8040 QP2-8050 QP2-8060					
70 90 100 125	QP2-8070 QP2-8090 QP2-8100 QP2-8125	13.40 18.20 18.20 42.00			603.00 819.00 819.00 1890.00	
2 POLE EQ-P 240 VOLT AC						
15 20 30	QP2-H015 QP2-H020 QP2-H030	18.20	3	45	819.00	30
40 50 60 70	QP2-H040 QP2-H050 QP2-H060 QP2-H070					
90 100	QP2-H090 QP2-H100	21.20			954.00	
3 POLE—EQ-P 240 VOLT AC						
15 20 30 40 50	QP3-8015 QP3-8020 QP3-8030 QP3-8040 QP3-8050	22.70	2	30	681.00	30
70 90 100	QP3-8070 QP3-8090 QP3-8100	28.80 33.00 33.00			864.00 990.00 990.00	
GAS STATION—EQ-P 2 POLE 120/240 VOLT AC						
15 20 30	QG2-8015 QG2-8020 QG2-8030	9.00	3	36	324.00	24
GAS STATION—EQ-P, 3 POLE 120/240 VOLT AC						
15 20 30	QG3-8105 QG3-8020 QG3-8030	13.20	2	24	316.80	24
WATER HEATER —EQ-P 2 POLE 240 VOLT AC						
15 20 30 40	QW2-8015 QW2-8020 QW2-8030 QW2-8040	7.10	—	1	7.10	1½
DELTA —EQ-P 3 POLE 240 VOLT AC						
15 20 30 40 50	QD3-8015 QD3-8020 QD3-8030 QD3-8040 QD3-8050	22.70	—	1	22.70	2
70	QD3-8070	28.80			28.80	

When you think electrical

— think Graybar.

The above items are subject to 50% Discount.






SQUARE D QO LOAD CENTERS

FOR USE WITH PLUG-IN QO CIRCUIT BREAKERS OR QF FUSIBLE UNITS OR BOTH




TO SELECT PROPER DEVICE:

1. Determine required number of single and two-pole units and total number of spaces required.
2. Select device with required mains rating having sufficient number of spaces for branch circuits.
3. Order basic device catalog number and cover when listed separately.
4. Order required QO Circuit Breakers or QF Fusible Units.

QO CIRCUIT BREAKERS — PLUG-IN TYPES QO, QOT AND Q1

Ampere Rating	SINGLE POLE		TWO POLE — COMMON TRIP				THREE POLE — COMMON TRIP			
										
	1 Space Required		2 Spaces Required		4 Spaces Required		3 Spaces Required		6 Spaces Required	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
15 & 15	QOT1515	\$ 5.60	.....	.....	.....	.....	.....	.....	.....	.....
15 & 20	QOT1520	5.60	.....	.....	.....	.....	.....	.....	.....	.....
20 & 20	QOT2020	5.60	.....	.....	.....	.....	.....	.....	.....	.....
30 & 30	QOT3030	5.60	.....	.....	.....	.....	.....	.....	.....	.....
15	QO115	2.80	QO215	\$ 6.60	.....	.....	QO315	\$22.70	.....	.....
20	QO120	2.80	QO220	6.60	.....	.....	QO320	22.70	.....	.....
30	QO130	2.80	QO230	6.60	.....	.....	QO330	22.70	.....	.....
40	QO140	2.80	QO240	6.60	.....	.....	QO340	22.70	.....	.....
50	QO150	2.80	QO250	6.60	.....	.....	QO350	22.70	.....	.....
60	.....	.....	QO260	6.60	.....	.....	QO360	22.70	.....	.....
70	.....	.....	QO270	13.40	.....	.....	.....	.....	.....	.....
90	.....	.....	.....	.....	Q1-270	\$18.10	.....	.....	Q1-370	\$33.00
100	.....	.....	.....	.....	Q1-290	18.10	.....	.....	Q1-390	33.00
					Q1-2100	18.10	.....	.....	Q1-3100	33.00

QF FUSIBLE UNITS (Use Type SC Fuses)

Ampere Rating	SINGLE POLE — 120 V. AC		TWO POLE — 240 VOLTS AC			
						
	1 Space Required		2 Spaces Required		2 Spaces Required	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
15 & 15	QFT1515	\$3.10	QFT21515	\$8.20	.....	.....
15 & 20	QFT1520	3.10	QFT21520	8.20	.....	.....
20 & 20	QFT2020	3.10	QFT22020	8.20	.....	.....
30 & 30	QFT3030	3.10	QFT23030	8.20	.....	.....
30	.....	.....	.....	.....	QF230	\$4.10
60	.....	.....	.....	.....	QF260	4.10

QF REPLACEMENT PULLOUT HEADS ONLY

Amp. Rating	1 Pole QFT	
	Cat. No.	Price
15	QFH115T	\$.60
20	QFH120T	.60
30	QFH130T	.60
60	.....	.....
Amp. Rating	2 Pole QFT	
	Cat. No.	Price
15	QFH215T	\$1.00
20	QFH220T	1.00
30	QFH230T	1.00
.....
Amp. Rating	2 Pole QF	
	Cat. No.	Price
.....
30	QFH230	\$1.00
60	QFH260	1.00

ACCESSORIES

Description	Cat. No.	Price	Description	Cat. No.	Price
Handles Ties. Convert any two adjacent single pole QO or QOT poles to independent trip two pole.....	QO1HT	\$.10	Flush Lock. For converting spring catch in most QO load center doors to lock type.....	PK2FL	\$6.10
Closure Plate (S.P.). Fills opening in cover if twist-out is removed in error or if breaker is eliminated.....	QO1CP	.30	Sealing Ear for QO Covers. Provides means of sealing trim screws.....	QO1SE	.10
Filler Plate. Fills opening in blanked out type QO covers.	QO1FP	.10	QO Rejection Tool w/handle. For altering rejection rail.....	QO1JTH	1.00
Handle Lock-Off. Clip for fixing QO single pole handle in "on" or "off" position.....	QO1LO	.20	Handle Padlock Attachment. For padlocking one pole QO breakers in "off" position.....	QO1PA	.70
Handle Lock-Off for QO-QOT, Q1. Clip for fixing 1, 2 & 3 pole breaker handles in "on" or "off" position.....	HLO-1	.60	QO & Q1 Padlock Attachment. For 2 and 3 pole breakers which require padlocking in either "on" or "off" position.....	.....	.....
			Loose Attachment.....	QO1HPL	.70
			Fixed Attachment.....	QO1PL	.70

RAINTIGHT BOLT-ON HUBS

Square D raintight enclosures with suffix RB have an extruded opening on the top endwall covered with a bolt-on closing cap factory installed. For applications requiring a raintight hub, this opening allows the use of a bolt-on hub of ¼", 1", 1½", 1½", 2" or 2½". Hub mounting holes are elongated to allow adjustment to the conduit location.

Description	Cat. No.	Price
Closing Cap.....	B-CAP	Included
Bolt-on hub ¾".....	B-075	\$2.60
Bolt-on hub 1".....	B-100	2.60
Bolt-on hub 1½".....	B-125	2.60
Bolt-on hub 1½".....	B-150	2.60
Bolt-on hub 2".....	B-200	4.40
Bolt-on hub 2½".....	B-250	7.80



The above items are subject to 50% Discount.

SQUARE D QO LOAD CENTERS

FOR USE WITH QO CIRCUIT BREAKERS OR QF FUSIBLE UNITS*

ORDER BRANCH QO OR QF UNITS SEPARATELY

QO2-4AS



QO6-12S



MAIN LUGS ONLY — 1 PHASE, 3 WIRE — NO DOOR

Mains Rating Amps.	Max. Number Single Poles		Type Enclosure	Use With	Box, Interior and Cover		
	Spaces	Max. No. Poles			Old Cat. No.	New Cat. No.	Price
40	2	2	Surface Flush Raintight	QO QO QO/QF	QO2S QO2F QO2RO	QO2S QO2F QO2RB	\$ 3.40 4.10 9.10▲
70	2	4	Surface Flush Raintight	QO QO QO/QF	QO2AS QO2AF QO2ARO	QO2-4AS QO2-4AF QO2-4ARB	5.20 5.20 10.20▲
100	6	12	Surface Flush Raintight	QO QO QO/QF	QO6S QO6F QO6RO	QO6-12S QO6-12F QO6-12RB	8.20 8.20 14.20▲
125	8	16	Surface Flush Raintight	QO QO QO/QF	QO8S QO8F QO8RO	QO8-16S QO8-16F QO8-16RB	10.40 10.40 18.40▲

ORDER BRANCH QO OR QF UNITS SEPARATELY

Mains Rating Amps.	Spaces	Max. No. of Single Poles	Type Enclosure	Use With	Basic Device — Box and Interior Only			Cover With Door (Order Separately)Ⓢ	
					Old Cat. No.	New Cat. No.	Price	Cat. No.	Price

1 PHASE — 3 WIRE MAIN LUGS ONLY†

100	6	12	General Purpose Raintight	QO/QF	QO6DF or SⓈ QO6RO	QO6-12DF or DSⓈ QO6-12RB	\$ 7.40 14.20▲	Included with Basic Device	....
125	8	16	General Purpose Raintight	QO/QF	QO8DF or SⓈ QO8RO	QO8-16DF or DSⓈ QO8-16RB	11.60 18.40▲	Included with Basic Device	....
125	12	24	General Purpose Raintight	QO/QF	QO12 QO12RO	QO12-24 QO12-24RB	14.40 27.40▲	QOC12F or S	\$3.00
150	12	24	General Purpose Raintight	QO/QF	QO12H QO12HRO	QO12-24H QO12-24HRB	18.40 32.40▲	QOC12HF or S	4.00
200	12	24	General Purpose Raintight	QO/QF	QO12HA QO12HARO	QO12-24HA QO12-24HARB	23.40 37.40▲	QOC12HF or S	4.00
125	16	24	General Purpose Raintight	QO/QF	QO16 QO16RO	QO16-24 QO16-24RB	19.20 33.20▲	QOC16F or S	4.00
150	16	30	General Purpose Raintight	QO/QF	QO16H QO16HRO	QO16-30H QO16-30HRB	20.70 38.20▲	QOC20HF or S	7.50
125	20	24	General Purpose Raintight	QO/QF	QO20 QO20RO	QO20-24 QO20-24RB	25.00 39.00▲	QOC20F or S	4.00
150	20	30	General Purpose Raintight	QO/QF	QO20H QO20HRO	QO20-30H QO20-30HRB	26.50 48.00▲	QOC20HF or S	7.50
200	20	40	General Purpose Raintight	QO/QF	QO20HA QO20HARO	QO20-40HA QO20-40HARB	31.50 61.00▲	QOC20HF or S	7.50
200	30	40	General Purpose Raintight	QO	QO30 QO30RO	QO30-40 QO30-40RB	36.00 55.50▲	QOC30F or S	7.50
225	42	42	General Purpose	QO	QO42	QO42	50.90	QOC42F or S	10.00

3 PHASE — 4 WIRE MAIN LUGS ONLY

125	12	24	General Purpose Raintight	QO	QO412 QO412RO	QO412-24 QO412-24RB	24.40 37.40▲	QOC412F or S	3.00
200	12	24	General Purpose Raintight	QO	QO412HA QO412HARO	QO412-24HA QO412-24HARB	33.40 47.40▲	QOC12HAF or S	4.00
125	20	30	General Purpose Raintight	QO	QO420 QO420RO	QO420-30 QO420-30RB	35.00 49.00▲	QOC420F or S	4.00
200	30	40	General Purpose Raintight	QO	QO430 QO430RO	QO430-40 QO430-40RB	48.00 65.50▲	QOC30F or S	7.50
200	42	42	General Purpose	QO	QO442	QO442	60.90	QOC42F or S	10.00

*QO Breakers can be used in all QO Load Centers. QF Fusible Units can be used only in devices marked QO/QF.

▲Type RB Raintight device has a bolt-on closing cap installed. Order bolt-on hub separately.

†Approved for 3 φ Grounded "B" Systems.

ⓈOrder F for Flush and S for Surface.

The above items are subject to 50% Discount.

SQUARE D QO LOAD CENTERS

FOR USE WITH QO CIRCUIT BREAKERS OR QF FUSIBLE UNITS*

ORDER BRANCH QO OR QF UNITS SEPARATELY

Mains Rating Amps.	Spaces	Max. No. Poles	Type Enclosure	Use With	Basic Device — Box and Interior Only			Cover With Door (Order Separately)Ⓢ	
					Old Cat. No.	New Cat. No.	Price	Catalog Number	Price

1 PHASE — 3 WIRE MAIN DISCONNECT (MAIN BREAKER INCLUDED)

100 A. Breaker	8	16	General Purpose Raintight	QO/QF	Q08M Q08MRO	Q08-16M Q08-16MRB	\$ 28.70 39.70▲	QOC8MF or S	\$ 3.00
100 A. Breaker	12	20	General Purpose Raintight	QO/QF	Q012M Q012MRO	Q012-20M Q012-20MRB	31.50 45.50▲	QOC16MF or S	4.00
100 A. Breaker	14	20	General Purpose Raintight	QO/QF	Q014M Q014MRO	Q014-20M Q014-20MRB	34.40 48.40▲	QOC16MF or S	4.00
100 A. Breaker	16	20	General Purpose Raintight	QO/QF	Q016M Q016MRO	Q016-20M Q016-20MRB	37.30 51.30▲	QOC16MF or S	4.00
100 A. Breaker	20	20	General Purpose Raintight	QO	Q020M Q020MRO	Q020M Q020MRB	43.10 57.10▲	QOC20MF or S	4.00
125 A. † Breaker	20	24	General Purpose Raintight	QO/QF	Q020M125 Q020M125RO	Q020-24M125 Q020-24M125RB	61.00 83.00▲	QOC20M200F or S	10.00
150 A. † Breaker	20	30	General Purpose Raintight	QO/QF	Q020M150 Q020M150RO	Q020-30M150 Q020-30M150RB	61.00 83.00▲	QOC20M200F or S	10.00
200 A. † Breaker	20	40	General Purpose Raintight	QO/QF	Q020M200 Q020M200RO	Q020-40M200 Q020-40M200RB	61.00 83.00▲	QOC20M200F or S	10.00
150 A. † Breaker	30	30	General Purpose Raintight	QO	Q030M150 Q030M150RO	Q030M150 Q030M150RB	75.50 103.50▲	QOC30M200F or S	10.00
200 A. † Breaker	30	40	General Purpose Raintight	QO	Q030M200 Q030M200RO	Q030-40M200 Q030-40M200RB	75.50 103.50▲	QOC30M200F or S	10.00
200 A. † Breaker	40	40	General Purpose Raintight	QO	Q040M200 Q040M200RO	Q040M200 Q040M200RB	90.00 125.00▲	QOC40M200F or S	10.00

3 PHASE — 4 WIRE MAIN DISCONNECT (MAIN BREAKER INCLUDED)

125 A. Breaker	30	36	General Purpose Raintight	QO	Q0430M125 Q0430M125RO	Q0430-36M125 Q0430-36M125RB	148.50 174.50▲	QOC30M200F or S	10.00
150 A. Breaker	30	36	General Purpose Raintight	QO	Q0430M150 Q0430M150RO	Q0430-36M150 Q0430-36M150RB	148.50 174.50▲	QOC30M200F or S	10.00
200 A. Breaker	30	36	General Purpose Raintight	QO	Q0430M200 Q0430M200RO	Q0430-36M200 Q0430-36M200RB	148.50 174.50▲	QOC30M200F or S	10.00
150 A. Breaker	40	40	General Purpose	QO	Q0440M150	Q0440M150	181.00	QOC40M200F or S	10.00
200 A. Breaker	40	40	General Purpose	QO	Q0440M200	Q0440M200	181.00	QOC40M200F or S	10.00

1 PHASE — 3 WIRE MAIN DISCONNECT (FUSIBLE MAIN PULLOUT INCLUDED)

200 A. † Pullout	20	40	General Purpose Raintight	QO/QF	Q020MP Q020MPRO	Q020-40MP Q020-40MPRB	61.00 83.00▲	QOC30MPF or S QOC30MPTF φ	10.00 10.00
200 A. † Pullout	30	40	General Purpose Raintight	QO	Q030MP Q030MPRO	Q030-40MP Q030-40MPRB	75.50 103.50▲	QOC30MPF or S QOC30MPTF φ	10.00 10.00
200 A. † Pullout	40	40	General Purpose	QO	Q040MP	Q040MP	90.00	QOC40MPF or S QOC40MPTF φ	10.00 10.00

† Approved for 3 φ grounded "B" systems.

▲ Type RB Raintight device has a bolt-on closing cap installed. Order bolt-on hub separately.

φ TF Covers are for flush drywall construction.

Ⓢ Order F for Flush and S for Surface.

● QO Breakers can be used in all QO Load Centers. QF Fusible units can be used only in devices marked QO/QF.

The above items are subject to 50% Discount.

SQUARE D QO LOAD CENTERS

FOR USE WITH QO CIRCUIT BREAKERS OR QF FUSIBLE UNITS*

ORDER BRANCH QO OR QF UNITS SEPARATELY

SPLIT BUS — PARALLEL MAINS — WITH DOOR

Mains Rating Amps.	Maximum Number Poles				Type Enclosure	Use With	Box, Interior and Cover* with Door		Price
	Main Section — 2 Pole		Lighting Section — 1 Pole				Old Cat. No.	New Cat. No.	
	Spaces	Useable	Spaces	Max. 1-P					
125	2	1	4	8	Indoor Raintight	QO/QF	Q08-204S/F Q08-204RO	Q02X4-8F/S Q02X4-8RB	\$11.60 18.40▲
125	3	2	6	12	Indoor Raintight	QO/QF	Q012-306S/F Q012-306RO	Q03X6-12F/S Q03X6-12RB	17.40 27.40▲
150	3	2	6	12	Indoor Raintight	QO/QF	Q012-306HS/F Q012-306HRO	Q03X6-12HF/S Q03X6-12HRB	22.40 32.40▲
125	4	3	6	12	Indoor Raintight	QO/QF	Q014-406S/F Q014-406RO	Q04X6-12F/S Q04X6-12RB	20.30 30.30▲
150	4	3	6	12	Indoor Raintight	QO/QF	Q014-406HS/F Q014-406HRO	Q04X6-12HF/S Q04X6-12HRB	25.30 35.30▲
125	4	3	8	14	Indoor Raintight	QO/QF	Q016-408S/F Q016-408RO	Q04X8-14F/S Q04X8-14RB	23.20 33.20▲
150	4	3	8	14	Indoor Raintight	QO/QF	Q016-408HS/F Q016-408HRO	Q04X8-14HF/S Q04X8-14HRB	28.20 38.20▲
125	4	3	12	14	Indoor Raintight	QO	Q020-412S/F Q020-412RO	Q04X12-14F/S Q04X12-14RB	29.00 39.00▲
125	6	5	8	14	Indoor Raintight	QO/QF	Q020-608S/F Q020-608RO	Q06X8-14F/S Q06X8-14RB	29.00 39.00▲
150	6	5	8	14	Indoor Raintight	QO	Q020-608HS/F Q020-608HRO	Q06X8-14HF/S Q06X8-14HRB	34.00 46.00▲
200	6	5	8	14	Indoor Raintight	QO	Q020-608HAS/F Q020-608HARO	Q06X8-14HAF/S Q06X8-14HARB	39.00 51.00▲
200	6†	4	10	20	Indoor Raintight	QO/QF	Q022-510S/F Q022-510RO	Q05X10-20F/S Q05X10-20RB	44.20 56.20▲
150	6	4	12	22	Indoor Raintight	QO	Q024-612S/F Q024-612RO	Q06X12-22F/S Q06X12-22RB	34.80 46.80▲
200	6	4	12	22	Indoor Raintight	QO	Q024-612AS/F Q024-612ARO	Q06X12-22AF/S Q06X12-22ARB	39.80 51.80▲
150	6	5	14	14	Indoor Raintight	QO	Q026-614S/F Q026-614RO	Q06X14F/S Q06X14RB	37.70 49.70▲
200	6	5	14	14	Indoor Raintight	QO	Q026-614AS/F Q026-614ARO	Q06X14AF/S Q06X14ARB	42.70 54.70▲
150	6	4	18	26	Indoor Raintight	QO	Q030-618S/F Q030-618RO	Q06X18-26F/S Q06X18-26RB	43.50 55.50▲
200	6	4	18	26	Indoor Raintight	QO	Q030-618AS/F Q030-618ARO	Q06X18-26AF/S Q06X18-26ARB	48.50 60.50▲
200	‡2	---	24	40	Indoor	QO	Q032-224S/F	Q02X24-40F/S‡	71.00
200	6	3	30	30	Indoor	QO	Q042-630S/F	Q06X30F/S	80.90

▲Type RB Raintight device has a bolt-on closing cap installed. Order bolt-on hub separately.

‡Two Q1-2100 Main Disconnect Breakers Factory Installed.

*Cover included with Device. Use F (Flush) or S (Surface) Suffix.

†Includes 100 Amp Lighting Main Factory Installed.

RISER PANEL — EXTENDED SIDE GUTTER

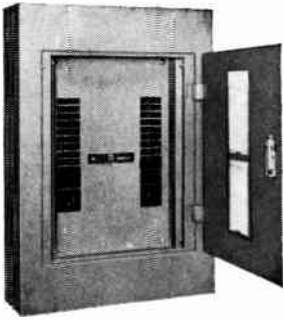
Mains Rating Amps.	Spaces	Max. No. Poles	Use With	Box Only	Price	Interior Only			Flush Cover With Door	Price
						Old Cat. No.	New Cat. No.	Price		
						100	6	12			QO or QF	Q0B6WG	$6.00	Q0N6DWG	Q0N6-12WG	$ 4.20	Q0C6WGF	$6.00
125	8	16	Q0B12WG	7.00	Q0N8WG	Q0N8-16WG	7.80	Q0C12WGF	7.00	
	12	24			Q0N12WG	Q0N12-24WG	13.40			

●QO Breakers can be used in all QO Load Centers. QF Fusible Units can be used only in devices marked QO/QF.

The above items are subject to 50% Discount.

SQUARE D CIRCUIT BREAKER LIGHTING AND DISTRIBUTION PANELBOARDS

FACTORY ASSEMBLED TYPE

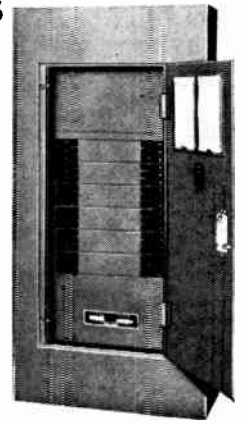


TYPE NA1B — For use on AC or DC systems. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; 240 V. AC or 125/250 V. DC. Maximum 600 A. main lugs on 400 A. main breaker.

Branches: Bolted, Type A1B, 1, 2 and 3 pole—15 thru 100 A.

Boxes: Galvanized steel W/ knockouts. Maximum 600 A. main lugs, 400 A. main breaker 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT[®] fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.



TYPE NY1B — For use on AC only. Listed by Underwriters' laboratories. 3 ϕ , 3W; 3 ϕ , 4W; maximum 480 V. AC. Maximum 400 A. main lugs or main breaker.

Branches: Type Y1B, 1 pole or Type FA, 2 or 3 pole, 15 thru 100 A.

Boxes: Galvanized steel with knockouts. Maximum 400 A. main lugs or main breaker 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT[®] fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.

1-PHASE, 3-WIRE

No. Breaker Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT [®] Front Cat. No.
MAINS: LUGS ONLY					
10	100	NA1B-10-3L	\$205.	MH-26	MSC-26T
14	100	NA1B-14-3L	261.	MH-29	MSC-29T
20	100	NA1B-20-3L	345.	MH-35	MSC-35T
30	225	NA1B-30-3L	489.	MH-29	MDC-29T
42	225	NA1B-42-3L	657.	MH-35	MDC-35T

MAINS: CIRCUIT BREAKER — 2 POLE

8	50	NA1B-08-3AB	\$211.	MH-26	MSC-26T
10	50	NA1B-10-3AB	238.	MH-29	MSC-29T
18	100	NA1B-18-3AB	371.	MH-35	MSC-35T
20	100	NA1B-20-3AB	399.	MH-29	MDC-29T
30	225	NA1B-30-3AB	700.	MH-41	MDC-41T
42	225	NA1B-42-3AB	868.	MH-47	MDC-47T

3-PHASE, 4-WIRE

MAINS: LUGS ONLY

10	100	NA1B-10-4L	\$218.	MH-26	MSC-26T
14	100	NA1B-14-4L	272.	MH-29	MSC-29T
20	100	NA1B-20-4L	358.	MH-35	MSC-35T
30	100	NA1B-30-4L	498.	MH-29	MDC-29T
42	225	NA1B-42-4L	670.	MH-35	MDC-35T

MAINS: CIRCUIT BREAKER — 3 POLE

12	50	NA1B-12-4AB	\$293.	MH-29	MSC-29T
14	50	NA1B-14-4AB	321.	MH-35	MSC-35T
18	100	NA1B-18-4AB	399.	MH-35	MSC-35T
24	100	NA1B-24-4AB	483.	MH-29	MDC-29T
30	100	NA1B-30-4AB	567.	MH-35	MDC-35T
42	225	NA1B-42-4AB	930.	MH-47	MDC-47T

STANDARD WIDTH 3-PHASE, 4-WIRE

No. Branch Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT [®] Front Cat. No.
MAINS: LUGS ONLY					
14	100	NY1B-14-4L	\$321.	MH-29	MDC-29T
24	100	NY1B-24-4L	496.	MH-29	MDC-29T
30	100	NY1B-30-4L	601.	MH-35	MDC-35T
36	225	NY1B-36-4L	712.	MH-35	MDC-35T
42	225	NY1B-42-4L	817.	MH-41	MDC-41T

MAINS: CIRCUIT BREAKER — 3 POLE

14	50	NY1B-14-4AB	\$406.	MH-35	MDC-35T
24	100	NY1B-24-4AB	600.	MH-35	MDC-35T
30	100	NY1B-30-4AB	705.	MH-41	MDC-41T
36	225	NY1B-36-4AB	972.	MH-47	MDC-47T
42	225	NY1B-42-4AB	1077.	MH-53	MDC-53T

***COLUMN WIDTH**

MAINS: LUGS ONLY

12	100	NH1B-12-4LX	\$286.	HX-835B	HX-835TS
18	100	NH1B-18-4LX	391.	HX-844B	HX-844TS
24	100	NH1B-24-4LX	486.	HX-853B	HX-853TS
30	100	NH1B-30-4LX	601.	HX-862B	HX-862TS
36	225	NH1B-36-4LX	712.	HX-871B	HX-871TS
42	225	NH1B-42-4LX	817.	HX-880B	HX-880TS

MAINS: CIRCUIT BREAKER — 3 POLE

6	50	NH1B-06-4ABX	\$266.	HX-835B	HX-835TS
12	50	NH1B-12-4ABX	371.	HX-844B	HX-844TS
18	100	NH1B-18-4ABX	486.	HX-853B	HX-853TS
24	100	NH1B-24-4ABX	600.	HX-862B	HX-862TS
30	100	NH1B-30-4ABX	705.	HX-871B	HX-871TS
36	225	NH1B-36-4ABX	972.	HX-880B	HX-880TS
42	225	NH1B-42-4ABX	1077.	HX-889B	HX-889TS

*Branch breakers Type FA, 1 pole. 2 and 3 pole available. 50 ampere maximum.

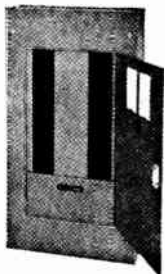
FACTORY ASSEMBLED DISTRIBUTION PANELBOARDS

TYPE I-LINE — For use on AC or DC systems. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 600 V. AC or 250 V. DC. Maximum 800 A. main lugs or 400 A. main breaker.

Branches: Plug-on, Types FA, FAH, KA, KAH, LA, LAH and Q2, 1, 2 or 3 pole, 15 thru 400 A.

Boxes: 26" W x 6 $\frac{1}{4}$ " D, galvanized steel with knockouts; 32" W x 8" D and 41" W x 8" D without knockouts, finished blue-gray.

Fronts: With door, flush lock, finished blue-gray.



TYPE ML — For use on AC or DC systems. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 600 V. AC or 250 V. DC. Maximum 1200 A. main lugs or 800 A. main breaker.

Branches: Type A1B, Y1B, FA, KA, LA and MA, 1, 2 or 3 pole, 15 thru 800 A.

Boxes: 31" W x 10 $\frac{1}{2}$ " D and 38" W x 10 $\frac{1}{2}$ " D, without knockouts, finished blue-gray.

Fronts: With door, 3 point vault handle lock, finished blue-gray.



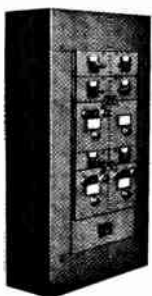
TYPE QMB Motor Starter — For use on maximum 600 V. 3 ϕ systems. Maximum 1200 A. main lugs or 600 A. main switch.

Disconnects: Type QMB Saflex fusible or QMB-FA and QMB-KA circuit breaker units.

Starters: Non-reversing and reversing, sizes 0 thru 4.

Boxes: 31" W x 10 $\frac{1}{2}$ " D and 38" W x 14 $\frac{1}{2}$ " D, without knockouts, finished blue-gray.

Fronts: Without door, finished blue-gray.



TYPE QMB — For use on AC or DC systems. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 600 V. AC or 250 V. DC. Maximum 1200 A. main lugs or 600 A. main switch.

Branches: Type QMB Saflex, HP rated plug-on fusible switch units. 2 and 3 pole, 30 thru 600 A.

Boxes: 31" W x 10 $\frac{1}{2}$ " D and 38" W x 14 $\frac{1}{2}$ " D, without knockouts, finished blue-gray.

Fronts: Without door, finished blue-gray.



The above items are subject to 50% Discount.

I-LINE® SQUARE D CIRCUIT BREAKER DISTRIBUTION PANELBOARDS

UNASSEMBLED TYPE

**FOR MAXIMUM 250 V. DC OR 600 V. AC APPLICATIONS
MAIN LUGS OR MAIN BREAKER**

Mains: Main Lug Only: 225, 400, 600 or 800A. Main Breaker: 100, 225 or 400A.

Branches: 1 Pole, 125V AC or DC; 2 and 3 Pole, maximum 250V DC or 600V AC plug-on circuit breakers. 15 thru 400 ampere.

Boxes: 26" wide 6¼" deep, Galvanized Steel, W K.O. 32" wide, 8" deep and 41" wide, 8" deep code gauge steel without knockouts, finished blue-gray baked enamel.

Fronts: With door, blue-gray baked enamel finish and flush lock. 32" wide fronts over 56" high and 41" wide fronts have 3-point vault handle locks.

Gutters: End Gutters — 8" minimum, side gutters — 5" minimum.

Service Entrance Approved with six circuits or less or with Main Breaker.

ORDERING INFORMATION

1. Select Branch Circuits Desired and Determine Total Space Required.
2. Select Interior, Box and Front Based on Required Unit Space and Main Bus bar size needed.
3. Select Blanks if Needed to Complete Unit Space.
4. **MAIN BREAKERS** — Select Branch Circuit Breaker of Proper Ampere Rating and Number of Poles. Mount Same as a Branch Circuit Breaker and Back-Feed.

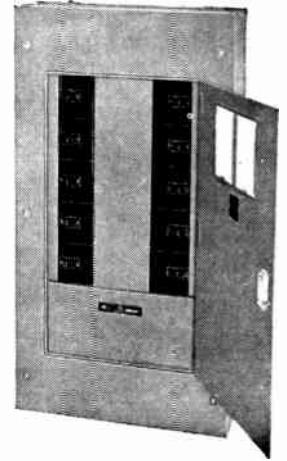


TABLE 1 — INTERIORS, BOXES AND FRONTS (Without solid neutral)

Total Breaker Mounting Space (Inches)	Ampere Rating of Mains	Complete Price (Less Breakers)	Box Height (Inches)	Interior Assembly (Less Breakers)		Front		Box	
				Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
MAXIMUM 225 A. BRANCH BREAKER — TYPES FA, FAH AND Q2 BOX SIZE 26" WIDE, 6¼" DEEP									
27	225	\$149.	36	HCN-1436-2	\$ 92.	HC-2636 TF or S	\$ 30.	HC-2636-B	\$ 27.
27	400	168.	36	HCN-1436-4	111.	HC-2636 TF or S	30.	HC-2636-B	27.
45	225	185.	45	HCN-2345-2	119.	HC-2645 TF or S	34.	HC-2645-B	32.
45	400	206.	45	HCN-2345-4	140.	HC-2645 TF or S	34.	HC-2645-B	32.
63	225	223.	54	HCN-3254-2	135.	HC-2654 TF or S	48.	HC-2654-B	40.
63	400	243.	54	HCN-3254-4	155.	HC-2654 TF or S	48.	HC-2654-B	40.
99	225	296.	72	HCN-5072-2	185.	HC-2672 TF or S	62.	HC-2672-B	49.
99	400	318.	72	HCN-5072-4	207.	HC-2672 TF or S	62.	HC-2672-B	49.
135	400	392.	90	HCN-6890-4	247.	HC-2690 TF or S	80.	HC-2690-B	65.
MAXIMUM 225 A. BRANCH BREAKER — TYPES FA, FAH, KA, KAH AND Q2 BOX SIZE 32" WIDE, 8" DEEP									
27	225	\$156.	38	HCM-1438-2	\$ 95.	HC-3238 TF or S	\$ 31.	HC-3238-B	\$ 30.
27	400	184.	38	HCM-1438-4	123.	HC-3238 TF or S	31.	HC-3238-B	30.
27	600	245.	38	HCM-1438-6	184.	HC-3238 TF or S	31.	HC-3238-B	30.
45	225	193.	47	HCM-2347-2	113.	HC-3247 TF or S	41.	HC-3247-B	39.
45	400	220.	47	HCM-2347-4	140.	HC-3247 TF or S	41.	HC-3247-B	39.
45	600	271.	47	HCM-2347-6	191.	HC-3247 TF or S	41.	HC-3247-B	39.
45	800	312.	47	HCM-2347-8	232.	HC-3247 TF or S	41.	HC-3247-B	39.
63	225	232.	56	HCM-3256-2	128.	HC-3256 TF or S	56.	HC-3256-B	48.
63	400	259.	56	HCM-3256-4	155.	HC-3256 TF or S	56.	HC-3256-B	48.
63	600	304.	56	HCM-3256-6	200.	HC-3256 TF or S	56.	HC-3256-B	48.
63	800	351.	56	HCM-3256-8	247.	HC-3256 TF or S	56.	HC-3256-B	48.
99	400	338.	74	HCM-5074-4	185.	HC-3274 TF or S	79.	HC-3274-B	74.
99	600	363.	74	HCM-5074-6	210.	HC-3274 TF or S	79.	HC-3274-B	74.
99	800	421.	74	HCM-5074-8	268.	HC-3274 TF or S	79.	HC-3274-B	74.
MAXIMUM 400 A. BRANCH BREAKER — TYPES FA, FAH, KA, KAH, LA, LAH AND Q2 BOX SIZE 41" WIDE, 8" DEEP									
27	400	\$207.	44	HCW-1444-4	\$123.	HCS-4144 TF or S	\$ 47.	HC-4144-B	\$ 37.
27	600	268.	44	HCW-1444-6	184.	HCS-4144 TF or S	47.	HC-4144-B	37.
27	800	350.	44	HCW-1444-8	266.	HCS-4144 TF or S	47.	HC-4144-B	37.
45	400	248.	53	HCW-2353-4	153.	HCS-4153 TF or S	54.	HC-4153-B	41.
45	600	300.	53	HCW-2353-6	205.	HCS-4153 TF or S	54.	HC-4153-B	41.
45	800	380.	53	HCW-2353-8	285.	HCS-4153 TF or S	54.	HC-4153-B	41.
63	400	289.	62	HCW-3262-4	177.	HCS-4162 TF or S	64.	HC-4162-B	48.
63	600	341.	62	HCW-3262-6	229.	HCS-4162 TF or S	64.	HC-4162-B	48.
63	800	407.	62	HCW-3262-8	295.	HCS-4162 TF or S	64.	HC-4162-B	48.
99	400	359.	80	HCW-5080-4	211.	HCS-4180 TF or S	84.	HC-4180-B	64.
99	600	398.	80	HCW-5080-6	250.	HCS-4180 TF or S	84.	HC-4180-B	64.
99	800	478.	80	HCW-5080-8	330.	HCS-4180 TF or S	84.	HC-4180-B	64.

TABLE 2 — BLANKS AND NEUTRAL ASSEMBLIES

Height (Inches)	BLANKS		BLANK EXTENSIONS		SOLID NEUTRAL ASSEMBLIES					†SUB-FEED LUGS			
	Catalog Number	Price	Catalog Number	Price	Ampere Capacity	*Height	±Catalog Number	●Catalog Number	Price	Height (Inches)	Ampere Capacity	Catalog Number	Price
1½	HNM-1BL	\$1.80	HLW-1BL	\$1.	225	.....	HC-2SN	HCW-4SN	\$20.	4½	100	SB-100	\$25.
3	HNM-3BL	2.60	HLW-3BL	1.	400	.....	HC-4SN	HCW-6SN	26.	4½	225	SB-225	25.
4½	HNM-4BL	4.10	HLW-4BL	1.	600	.....	HC-6SN	HCW-8SN	36.	6	400	SB-400	44.
.....	.....	.....	.....	.....	800	.....	HC-8SN	HCW-8SN	57.	.....	.....	.....	.....

¶ For replacement only. Furnished as original equipment with Interior Assembly.
*No additional height required. Mounted in main lug compartment.
±For use with Type HCN and HCM Interior Assemblies.
● For use with Type HCW Interior Assemblies.

†Sub-feed lug devices plug-on bus bars in same manner as branch circuit breaker. SB-100 and SB-225 will mount on Type HCN, HCM and HCW Interior Assemblies. SB-400 will mount on Type HCM and HCW Interior Assemblies.

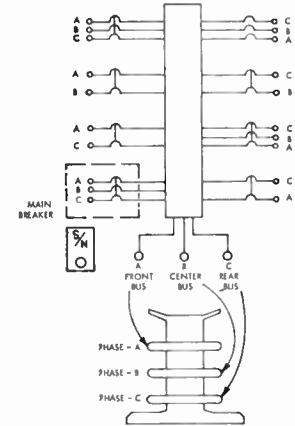
The above items are subject to 50% Discount.

SQUARE D I-LINE® PANELBOARDS
BRANCH AND MAIN CIRCUIT BREAKERS

APPLICATION: For use on AC or DC systems. Meets Federal Specification W-C-375a. Listed under Underwriters' Laboratories File No. E-10027.

BREAKER DATA

Ampere Rating	Frame Size	Poles	Type	Wire Size		Fed. Specs.
				Copper	Aluminum	W-C-375a
15-30 A.	100 A.	1	FA	#14-#8	#12-#8	2b
40-100 A.	100 A.	1	FA	#8-#1/0	#8-#1/0	2b
15-30 A.	100 A.	2, 3	FA	#14-#8	#12-#8	2c, 2d
40-100 A.	100 A.	2, 3	FA	#8-#1/0	#8-#1/0	2c, 2d
15-30 A.	100 A.	1	FAH	#14-#8	#12-#8	2f
40-100 A.	100 A.	2, 3	FAH	#8-#1/0	#8-#1/0	2f
125-150 A.	225 A.	2, 3	Q2	#4-#3/0	#4-#3/0	.....
175-225 A.	225 A.	2, 3	Q2	#4-300 MCM	#4-300 MCM	.....
125-225 A.	225 A.	2, 3	KA	#2-300 MCM	#1-300 MCM	3b, 3c
125-225 A.	225 A.	2, 3	KAH	#2-300 MCM	#1-300 MCM	3d
250-400 A.	400 A.	2, 3	LA	#3/0-600 MCM	#3/0-600 MCM	4b, 4c
250-400 A.	400 A.	2, 3	LAH	#3/0-600 MCM	#3/0-600 MCM	4b, 4c



PLUG-ON BRANCH AND MAIN CIRCUIT BREAKERS

Ampere Rating	1 Pole			2 Pole			3 Pole		
	Height (Inches)	Catalog Number	Price	Height (Inches)	Catalog Number	Price	Height (Inches)	Catalog Number	Price
TYPE FA 100 AMPERE FRAME 240 VOLT AC									
15	1½	*FA-12015	\$23.10	4½	FA-22015	\$ 34.00	4½	FA-32015	\$ 47.00
20	1½	*FA-12020	23.10	4½	FA-22020	34.00	4½	FA-32020	47.00
30	1½	*FA-12030	23.10	4½	FA-22030	34.00	4½	FA-32030	47.00
40	1½	*FA-12040	23.10	4½	FA-22040	34.00	4½	FA-32040	47.00
50	1½	*FA-12050	23.10	4½	FA-22050	34.00	4½	FA-32050	47.00
70	1½	*FA-12070	28.00	4½	FA-22070	53.00	4½	FA-32070	67.00
100	1½	*FA-12100	28.00	4½	FA-22100	53.00	4½	FA-32100	67.00

*Rated 125 V. AC or DC.

Ⓢ Rated 125/250 V. DC or 240 V. AC.

TYPE FA 100 AMPERE FRAME 480 VOLT AC									
15	1½	▲FA-14015	\$26.70	4½	FA-24015	\$ 58.00	4½	FA-34015	\$ 72.00
20	1½	▲FA-14020	26.70	4½	FA-24020	58.00	4½	FA-34020	72.00
30	1½	▲FA-14030	26.70	4½	FA-24030	58.00	4½	FA-34030	72.00
40	1½	▲FA-14040	26.70	4½	FA-24040	58.00	4½	FA-34040	72.00
50	1½	▲FA-14050	26.70	4½	FA-24050	58.00	4½	FA-34050	72.00
70	1½	▲FA-14070	30.70	4½	FA-24070	72.00	4½	FA-34070	87.00
100	1½	▲FA-14100	30.70	4½	FA-24100	72.00	4½	FA-34100	87.00

▲ Rated 277 V. AC.

★TYPE FA 100 AMPERE FRAME 600 VOLT AC 250 VOLT DC

15	...	.....	.....	4½	FA-26015	\$ 67.00	4½	FA-36015	\$ 84.00
20	...	.....	.....	4½	FA-26020	67.00	4½	FA-36020	84.00
30	...	.....	.....	4½	FA-26030	67.00	4½	FA-36030	84.00
40	...	.....	.....	4½	FA-26040	67.00	4½	FA-36040	84.00
50	...	.....	.....	4½	FA-26050	67.00	4½	FA-36050	84.00
70	...	.....	.....	4½	FA-26070	83.00	4½	FA-36070	101.00
100	...	.....	.....	4½	FA-26100	83.00	4½	FA-36100	101.00

TYPE Q2 225 AMPERE FRAME 240 VOLT AC

125	...	.....	.....	4½	Q2-22125	\$103.00	4½	Q2-32125	\$127.00
150	...	.....	.....	4½	Q2-22150	103.00	4½	Q2-32150	127.00
175	...	.....	.....	4½	Q2-22175	103.00	4½	Q2-32175	127.00
200	...	.....	.....	4½	Q2-22200	103.00	4½	Q2-32200	127.00
225	...	.....	.....	4½	Q2-22225	103.00	4½	Q2-32225	127.00

★TYPE KA 225 AMPERE FRAME 600 VOLT AC 250 VOLT DC

125	...	.....	.....	4½	KA-26125	\$185.00	4½	KA-36125	\$230.00
150	...	.....	.....	4½	KA-26150	185.00	4½	KA-36150	230.00
175	...	.....	.....	4½	KA-26175	185.00	4½	KA-36175	230.00
200	...	.....	.....	4½	KA-26200	185.00	4½	KA-36200	230.00
225	...	.....	.....	4½	KA-26225	185.00	4½	KA-36225	230.00

★TYPE LA 400 AMPERE FRAME 800 VOLT AC 250 VOLT DC

250	...	.....	.....	6	LA-26250	\$321.00	6	LA-36250	\$393.00
300	...	.....	.....	6	LA-26300	321.00	6	LA-36300	393.00
350	...	.....	.....	6	LA-26350	321.00	6	LA-36350	393.00
400	...	.....	.....	6	LA-26400	321.00	6	LA-36400	393.00

SELECTION OF BREAKERS

- Single Phase and Three Phase "WYE" and "DELTA" connections are available by selection of the bus connections required as shown on the wiring diagram above.
- Breaker Catalog Numbers are completed by adding the required phase connection letters as a suffix to the circuit breakers listed in the table above.
- Panelboard Application: I-Line panelboards accept only the breaker types listed below —
 Type HCN — Type FA, FAH and Q2 breakers.
 Type HCM — Type FA, FAH, KA, KAH and Q2 breakers.
 Type HCW — Type FA, FAH, KA, KAH, LA, LAH and Q2 breakers.

★ When I-75,000 breakers (75,000 A.I.C.) are required, use prefix FH, KH and LH. Not available on Type Q2 breakers. Refer to Graybar for prices.

Example: 30A, 240 volt breakers required in phase connections and number of poles as shown.

Phase Connection	1 Pole	2 Pole	3 Pole
A*	FA-12030-A	.....	.....
B	FA-12030-B	.....	.....
C*	FA-12030-C	.....	.....
A-B	.....	FA-22030-AB	.....
A-C*	.....	FA-22030-AC	.....
B-C	.....	FA-22030-BC	.....
A-B-C	.....	.....	FA-32030

*Standard for single phase panelboards.

The above items are subject to 50% Discount.

SQUARE D FUSIBLE PLUG-IN QMB SAFLEX DISTRIBUTION PANELBOARDS

FOR APPLICATIONS 600 VOLTS MAXIMUM QUICK-MAKE, QUICK-BREAK H.P. RATED UNITS

UNASSEMBLED TYPE

Mains: Main Lug Only; 200, 400 or 600 A.: Main Switch 100 and 200 A. only.

Branches: Quick-Make, Quick-Break H.P. Rated Plug-in Switch units two and three pole, 30 to 200 ampere capacity.

Boxes: Code gauge steel without knockouts, finished blue-gray 31" wide by 10 7/8" deep.

Fronts: Code gauge steel, without door, finished blue-gray.

Wiring Gutters: End Gutters — opposite mains 5 1/2" — at mains minimum 8". Side Gutters — 6".

Service Entrance Approved with Six circuits or less or with Main Switch.

1 ϕ 2W. 250 V. AC or DC.

1 ϕ 3W. S/N 125/250 V. AC.

3 ϕ 3W. 250 V. or 600 V. AC.

3 ϕ 4W. S/N 120/208 V. or 277/480 V. AC.

ORDERING INFORMATION

1. Select Branch Circuit Desired and Determine Total Space Required.
2. Select Interior, box, and front based on required unit space and main bus bar size needed.
3. Select blanks if needed to complete unit space.

TABLE 1 — PLUG-IN SWITCH UNITS

Unit Type	Unit Ampere Rating	Unit Height (Inches)	*250 VOLTS AC OR DC				Unit Height (Inches)	†600 VOLTS AC			
			TWO POLE		THREE POLE			TWO POLE		THREE POLE	
			Numbers	Each	Numbers	Each		Numbers	Each	Numbers	Each
Branch Units	30-30 twin	3	QMB-203-T	\$ 36.00	QMB-303-T	\$ 47.00	6	QMB-2603-T	\$ 77.00	QMB-3603-T	\$ 92.00
	60-60 twin	4 1/2	QMB-206-T	44.00	QMB-306-T	61.00	6	QMB-2606-T	77.00	QMB-3606-T	92.00
	100-100 twin	6	QMB-210-T	74.00	QMB-310-T	93.00	7 1/2	QMB-2610-T	114.00	QMB-3610-T	146.00
	200 single	9	QMB-2220	89.00	QMB-3220	126.00	9	QMB-2620	134.00	QMB-3620	172.00
Main Switch	100 A.	9	QMB-2210-M	112.00	QMB-3210-M	149.00	9	QMB-2610-M	150.00	QMB-3610-M	195.00
	200 A.	9	QMB-2220-M	112.00	QMB-3220-M	149.00	9	QMB-2620-M	150.00	QMB-3620-M	195.00

*Twin 250 volt units may be converted to 30-60, 30-100 and 60-100 twin units by using conversion kits.

†30-60, 30-100 and 60-100, 600 volt units are available from factory stock.

All QMB Switch Units carry increased H.P. ratings when dual element fuses are installed. (Section 430-32 Paragraph 1, National Electric Code.)

TABLE 2 — INTERIORS, BOXES AND FRONTS (Without Solid Neutral)

‡Total Unit Mounting Soace (Inches)	Ampere Rating of Mains	Type	Interior, Front and Box Price (Less Units)	†Box Height (Inches)	COMPONENT ORDERING TABLES					
					INTERIOR ASSEMBLY (Less Units)		FRONT		BOX	
					Numbers	Each	Numbers	Each	Numbers	Each
18	200	QMB-18-2	\$128.00	32	QMB-1832-2	\$ 78.00	QM-3132-TS	\$ 20.00	QM-3132-B	\$ 30.00
27	200	QMB-27-2	151.00	44	QMB-2744-2	79.00	QM-3144-TS	28.00	QM-3144-B	44.00
24	400	QMB-24-4	167.00	44	QMB-2444-4	95.00	QM-3144-TS	28.00	QM-3144-B	44.00
39	200	QMB-39-2	179.00	56	QMB-3956-2	84.00	QM-3156-TS	36.00	QM-3156-B	59.00
36	400	QMB-36-4	209.00	56	QMB-3656-4	114.00	QM-3156-TS	36.00	QM-3156-B	59.00
48	400	QMB-48-4	244.00	68	QMB-4868-4	128.00	QM-3168-TS	44.00	QM-3168-B	74.00
48	600	QMB-48-6	277.00	68	QMB-4868-6	159.00	QM-3168-TS	44.00	QM-3168-B	74.00
60	600	QMB-60-6	342.00	80	QMB-6080-6	184.00	QM-3180-TS	63.00	QM-3180-B	95.00
75	200	QMB-75-2	340.00	92	QMB-7592-2	157.00	QM-3192-TS	75.00	QM-3192-B	108.00
72	600	QMB-72-6	402.00	92	QMB-7292-6	219.00	QM-3192-TS	75.00	QM-3192-B	108.00

‡Solid Neutral mounts in main lug compartment. No extra space required.

†Box height indicated includes unit mounting space, main lug and solid neutral compartment, top and bottom gutters.

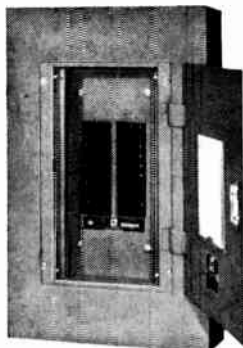
TABLE 3 — BLANKS AND NEUTRAL ASSEMBLY

BLANKS					SOLID NEUTRAL ASSEMBLIES						
Height Inches	Numbers	Each	Standard Pkg. Qty.	Height Inches	Numbers	Each	Standard Pkg. Qty.	Amp. Cap.	Height Inches	Numbers	Each
1 1/2	QM-1BL	\$ 1.80	8	6	QM-6BL	\$ 2.30	4	200 A. †	...	QM-1 SN †	\$20.00
3	QM-3BL	2.20	4	9	QM-9BL	2.60	2	400 A.	...	QM-2 SN	20.00
								600 A.	...	QM-4 SN	26.00
									...	QM-6 SN	36.00

†For use on interior Cat. No. QMB-1832-2 only.

SQUARE D NQO CIRCUIT BREAKER PANELBOARDS
UNASSEMBLED TYPE

1 PHASE 3 WIRE OR 3 PHASE 4 WIRE AC ONLY MAIN LUGS OR MAIN BREAKER
1, 2 OR 3 POLE PLUG-ON TYPE THERMAL-MAGNETIC BRANCHES



ORDERING INFORMATION

1. Select Basic Device from column II to accommodate total number of 1 pole ckts. & spaces required. Main lugs or main breaker.
 2. Select Flush or Surface front.
 3. Select proper plug-on breakers to give circuits desired.
- ‡IN 225A. MAIN MAXIMUM PANELBOARDS; single, double, and three pole QO circuit breakers require one, two, and three pole spaces, respectively. Two and three pole Q1 circuit breakers require four and six pole spaces respectively. In 400A MAIN PANELBOARDS; one, two and three pole, QO and Q1, circuit breakers require one, two, and three pole spaces respectively.

Branches: Single Pole, 120V., two pole, 120/240V. or 240V. and 3 pole, 240V. circuit breakers. 15 through 100 amperes.

Boxes: Galv. Steel W K.O., 225A. mains max. 14" wide 4" deep. Main Brkr. Boxes 5 1/4" deep. 400A. Mains 20" wide, 5 1/4" deep.

Fronts: With Door and FLUSH LOCK blue-gray baked enamel finish, concealed hinges and concealed trim clamps.

BRANCH CIRCUIT BREAKERS

PLUG-ON TYPE QO AND Q1 - CIRCUIT BREAKER

Amp. Rating	Single Pole 120 V. AC		Two Pole — Common Trip 120/240 V. AC		Two Pole — Common Trip 240 V. AC		Three Pole — Common Trip 240 V. AC	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
	15	QO-115	\$2.80	QO-215	\$ 6.60	*QO-215H	\$13.40	QO-315	$22.70
20	QO-120	2.80	QO-220	6.60	*QO-220H	13.40	QO-320	22.70
30	QO-130	2.80	QO-230	6.60	*QO-230H	13.40	QO-330	22.70
40	QO-140	2.80	QO-240	6.60	QO-240H	13.40	QO-340	22.70
50	QO-150	2.80	QO-250	6.60	QO-250H	13.40	QO-350	22.70
60			QO-260	6.60			QO-360	22.70
70			QO-270	13.40	*Q1-270	18.10	Q1-370	33.00
90					*Q1-290	18.10	Q1-390	33.00
100					*Q1-2100	18.10	Q1-3100	33.00

*15, 20 and 30 ampere, two pole, 240 volt. Type QO breakers and 40, 50, 70, 90, and 100 ampere, two pole Type Q1 are approved for use on 3 phase, Grounded "B" phase systems.

CIRCUIT BREAKER PRICE TABLE

No. of Breakers	Type QO			Type Q1	
	1 Pole	2 Pole	3 Pole	2 Pole	3 Pole
	120 V.	†120/240 V.	240 V.	240 V.	240 V.
	15-50 A.	15-60 A.	15-60 A.	70-100 A.	70-100 A.
1	\$ 2.80	\$ 6.60	\$ 22.70	\$ 18.10	\$ 33.00
2	5.60	13.20	45.40	36.20	66.00
3	8.40	19.80	68.10	54.30	99.00
4	11.20	26.40	90.80	72.40	132.00
5	14.00	33.00	113.50	90.50	165.00
6	16.80	39.60	136.20	108.60	198.00
7	19.60	46.20	158.90	126.70	231.00
8	22.40	52.80	181.60	144.80	264.00
9	25.20	59.40	204.30	162.90	297.00
10	28.00	66.00	227.00	181.00	330.00
11	30.80	72.60	249.70	199.10	363.00
12	33.60	79.20	272.40	217.20	396.00
13	36.40	85.80	295.10	235.30	429.00
14	39.20	92.40	317.80	253.40	462.00
15	42.00	99.00		271.50	
16	44.80	105.60		289.60	
17	47.60	112.20		307.70	
18	50.40	118.80		325.80	
19	53.20	125.40		343.90	
20	56.00	132.00		362.00	
21	58.80	138.60		380.10	

†Prices shown do not apply to Type QO, 70 ampere, 2 pole, 120/240 V. and Type QO, 15-50 ampere, 2 pole, 240 V., branch breakers.

BASIC DEVICES AND FRONTS

Max. No. of Poles	Amp. Cap. of Mains	Complete Price Each Less Breakers	Basic Device Only (Less Breakers)		Front Only		Box Height Inches
			Catalog Number	Price Each	Catalog Number	Price Each	

STANDARD WIDTH

1-PHASE, 3-WIRE

MAINS: LUGS ONLY

12	100	\$ 78.00	NQO-20-123	\$ 53.00	NQC-20TF or S	\$25.00	20 1/2
20	100	93.00	NQO-24-203-1	66.00	NQC-24TF or S	27.00	24 1/2
20	225	97.00	NQO-24-203-2	70.00	NQC-24TF or S	27.00	24 1/2
30	225	112.00	NQO-28-303	80.00	NQC-28TF or S	32.00	28
42	225	130.00	NQO-32-423	96.00	NQC-32TF or S	34.00	32 1/2
*54	225	148.00	NQO-37-543	109.00	NQC-37TF or S	39.00	37 1/2
30	400	161.00	NQO-38-303-4	118.00	MDC-38TF or S	43.00	38
42	400	179.00	NQO-41-423-4	133.00	MOC-41TF or S	46.00	41

MAINS: CIRCUIT BREAKER - 2-POLE

12	100	\$132.00	NQO-24-123M	\$105.00	NQC-24TF or S	\$27.00	24 1/2
20	100	147.00	NQO-28-203M	115.00	NQC-28TF or S	32.00	28
30	225	325.00	NQO-37-303M	288.00	NQC-37TF or S	39.00	37 1/2
42	225	343.00	NQO-42-423M	302.00	NQC-42TF or S	41.00	42 1/2
*54	225	361.00	NQO-48-543M	318.00	NQC-48TF or S	43.00	48 1/2
30	400	505.00	NQO-50-303-4M	453.00	MOC-50TF or S	52.00	50
42	400	523.00	NQO-53-423-4M	466.00	MOC-53TF or S	57.00	53

3-PHASE, 4-WIRE

MAINS: LUGS ONLY

12	100	\$ 88.00	NQO-20-124	\$ 63.00	NQC-20TF or S	\$25.00	20 1/2
20	100	103.00	NQO-24-204	76.00	NQC-24TF or S	27.00	24 1/2
30	100	118.00	NQO-28-304-1	86.00	NQC-28TF or S	32.00	28
30	225	125.00	NQO-28-304-2	93.00	NQC-28TF or S	32.00	28
42	225	143.00	NQO-32-424	109.00	NQC-32TF or S	34.00	32 1/2
*54	225	161.00	NQO-37-544	122.00	NQC-37TF or S	39.00	37 1/2
30	400	177.00	NQO-38-304-4	134.00	MOC-38TF or S	43.00	38
42	400	195.00	NQO-41-424-4	149.00	MOC-41TF or S	46.00	41

MAINS: CIRCUIT BREAKER - 3-POLE

12	50	\$137.00	NQO-24-124M	\$110.00	NQC-24TF or S	\$27.00	24 1/2
20	100	174.00	NQO-28-204M	142.00	NQC-28TF or S	32.00	28
30	100	189.00	NQO-32-304M	155.00	NQC-32TF or S	34.00	32 1/2
42	225	405.00	NQO-42-424M	364.00	NQC-42TF or S	41.00	42 1/2
*54	225	423.00	NQO-48-544M	380.00	NQC-48TF or S	43.00	48 1/2
30	400	588.00	NQO-50-304-4M	536.00	MOC-50TF or S	52.00	50
42	400	606.00	NQO-53-424-4M	549.00	MOC-53TF or S	57.00	53

*Refer to 42 Circuit Rule - N. E. C. Para. 384-14 and 384-15.

COLUMN WIDTH

1-PHASE, 3-WIRE

MAINS: LUGS ONLY

14	100	\$ 81.00	NQO-826-143	\$ 58.00	LX-26TF or S	\$25.00	26 1/2
20	100	93.00	NQO-832-203	66.00	LX-32TF or S	27.00	32 1/2
30	225	112.00	NQO-840-303	80.00	LX-40TF or S	32.00	40
42	225	130.00	NQO-849-423	96.00	LX-49TF or S	34.00	49

MAINS: CIRCUIT BREAKER - 2-POLE

14	100	\$115.00	NQO-832-143M	\$ 88.00	LX-32TF or S	\$27.00	32 1/2
20	100	142.00	NQO-840-203M	115.00	LX-40TF or S	32.00	40

3-PHASE, 4-WIRE

MAINS: LUGS ONLY

14	100	\$ 91.00	NQO-826-144	\$ 66.00	LX-26TF or S	\$25.00	26 1/2
20	100	103.00	NQO-832-204	76.00	LX-32TF or S	27.00	32 1/2
30	100	118.00	NQO-840-304	86.00	LX-40TF or S	32.00	40
42	225	143.00	NQO-849-424	109.00	LX-49TF or S	34.00	49

MAINS: CIRCUIT BREAKER - 3-POLE

14	50	\$140.00	NQO-832-144M	\$113.00	LX-32TF or S	\$27.00	32 1/2
20	100	174.00	NQO-840-204M	142.00	LX-40TF or S	32.00	40
30	100	189.00	NQO-845-304M	158.00	LX-45TF or S	33.00	45

ACCESSORIES

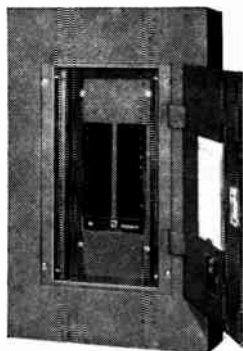
Description	Cat. No.	Price Each
Handle tie	QO-1HT	\$ 0.10
Handle lock-off	HLO-1	0.60
Closure plate (single pole)	QO-1CP	0.30
*100 Amp. sub-feed lug kit	QO-100ASF	20.60
*225 Amp. sub-feed lug kit	QO-225ASF	24.70

*For use with Main Lug panelboards only. Sub-feed lugs MUST be same rating as panelboard.

The above items are subject to 50% Discount.

SQUARE D CIRCUIT BREAKER LIGHTING AND DISTRIBUTION PANELBOARDS

FACTORY ASSEMBLED TYPE



TYPE NQO — For use on AC only. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 240V AC. Maximum 400A main lugs or main breaker.

Branches: Plug-on Type QO and Q1. 1, 2 and 3 pole — 15 thru 100A.

Boxes: Galvanized steel W/knockouts. Maximum 225A main lugs 14" W x 4" D; maximum 225A main breaker 14" W x 5 $\frac{1}{4}$ " D; 400A mains 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT® fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.

1-PHASE, 3-WIRE

No. Breaker Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT® Front Cat. No.
MAINS: LUGS ONLY					
12	100	NQO-12-3L	\$129.	NQ-20B	NQC-20T
20	100	NQO-20-3L	173.	NQ-24B	NQC-24T
30	225	NQO-30-3L	232.	NQ-28B	NQC-28T
42	225	NQO-42-3L	298.	NQ-32B	NQC-32T

MAINS: CIRCUIT BREAKER — 2 POLE

10	50	NQO-10-3AB	\$151.	NQ-524B	NQC-24T
12	100	NQO-12-3AB	183.	NQ-524B	NQC-24T
20	100	NQO-20-3AB	227.	NQ-528B	NQC-28T
30	225	NQO-30-3AB	443.	NQ-537B	NQC-37T
42	225	NQO-42-3AB	509.	NQ-542B	NQC-42T

3-PHASE, 4-WIRE

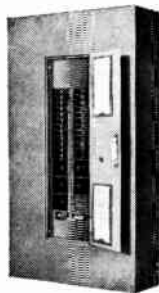
MAINS: LUGS ONLY

12	100	NQO-12-4L	\$139.	NQ-20B	NQC-20T
20	100	NQO-20-4L	183.	NQ-24B	NQC-24T
30	100	NQO-30-4L	238.	NQ-28B	NQC-28T
42	225	NQO-42-4L	311.	NQ-32B	NQC-32T

MAINS: CIRCUIT BREAKER — 3 POLE

12	50	NQO-12-4AB	\$188.	NQ-524B	NQC-24T
20	100	NQO-20-4AB	254.	NQ-528B	NQC-28T
30	100	NQO-30-4AB	309.	NQ-532B	NQC-32T
42	225	NQO-42-4AB	571.	NQ-542B	NQC-42T

SQUARE D FUSIBLE LIGHTING PANELS



TYPE NTFB — For use on AC only. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 120/208V AC. Maximum 225A main lugs.

Branches: Bolted, Type QFSB, 1, 2 or 3 pole fusible switches. For use with Class G fuses, 15 thru 30A.

Boxes: Galvanized steel with knockouts. 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT® fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.

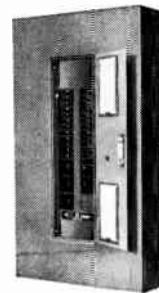
1-PHASE, 3-WIRE

No. Branch Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT® Front Cat. No.
MAINS: LUGS ONLY					
12	100	NTFB-12-3L	\$123.	MH-23	MSC-23T
20	100	NTFB-20-3L	163.	MH-26	MSC-26T
30	225	NTFB-30-3L	217.	MH-29	MSC-29T
42	225	NTFB-42-3L	277.	MH-35	MSC-35T

3-PHASE, 4-WIRE

MAINS: LUGS ONLY

12	100	NTFB-12-4L	\$133.	MH-23	MSC-23T
20	100	NTFB-20-4L	173.	MH-26	MSC-26T
30	100	NTFB-30-4L	223.	MH-29	MSC-29T
42	225	NTFB-42-4L	290.	MH-35	MSC-35T



TYPE NQOB — For use on AC only. Listed by Underwriters' Laboratories. 1 ϕ , 3W; 3 ϕ , 4W; maximum 240V AC. Maximum 600A main lugs or 400A main breaker.

Branches: Bolted, Type QOB and Q1B. 1, 2 and 3 pole — 15 thru 100A.

Boxes: Galvanized steel W/knockouts. Maximum 600A main lugs, 400A main breaker 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT® fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.

1-PHASE, 3-WIRE

No. Breaker Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT® Front Cat. No.
MAINS: LUGS ONLY					
12	100	NQOB-12-3L	\$129.	MH-23	MSC-23T
20	100	NQOB-20-3L	173.	MH-26	MSC-26T
30	225	NQOB-30-3L	232.	MH-29	MSC-29T
42	225	NQOB-42-3L	298.	MH-35	MSC-35T

MAINS: CIRCUIT BREAKER — 2 POLE

8	50	NQOB-08-3AB	\$140.	MH-23	MSC-23T
10	50	NQOB-10-3AB	151.	MH-26	MSC-26T
16	100	NQOB-16-3AB	205.	MH-26	MSC-26T
20	100	NQOB-20-3AB	227.	MH-29	MSC-29T
30	225	NQOB-30-3AB	443.	MH-38	MSC-38T
42	225	NQOB-42-3AB	509.	MH-44	MSC-44T

3-PHASE, 4-WIRE

MAINS: LUGS ONLY

12	100	NQOB-12-4L	\$139.	MH-23	MSC-23T
20	100	NQOB-20-4L	183.	MH-26	MSC-26T
30	100	NQOB-30-4L	238.	MH-29	MSC-29T
42	225	NQOB-42-4L	311.	MH-35	MSC-35T

MAINS: CIRCUIT BREAKER — 3 POLE

14	50	NQOB-14-4AB	\$199.	MH-26	MSC-26T
24	100	NQOB-24-4AB	276.	MH-29	MSC-29T
30	100	NQOB-30-4AB	309.	MH-35	MSC-35T
42	225	NQOB-42-4AB	571.	MH-44	MSC-44T

TYPE NTHB — For use on AC only. Listed by Underwriters' Laboratories. 3 ϕ , 4W; maximum 277/480V AC. Maximum 225A main lugs.

Branches: Bolted, Type HFSB, 1 pole fusible switches. For use with Class G fuses, 15 thru 30A.

Boxes: Galvanized steel with knockouts. 20" W x 5 $\frac{1}{4}$ " D.

Fronts: MONO-FLAT® fronts with concealed door hinges, concealed trim clamps, flush lock, blue-gray finish.

3-PHASE, 4-WIRE

No. Branch Poles	Amp. Mains	Catalog Number	Price	Box Cat. No.	MONO-FLAT® Front Cat. No.
MAINS: LUGS ONLY					
14	100	NTHB-14-4L	\$279.	MH-29	MDC-29T
24	100	NTHB-24-4L	424.	MH-29	MDC-29T
30	100	NTHB-30-4L	511.	MH-35	MDC-35T
36	225	NTHB-36-4L	604.	MH-35	MDC-35T
42	225	NTHB-42-4L	691.	MH-41	MDC-41T

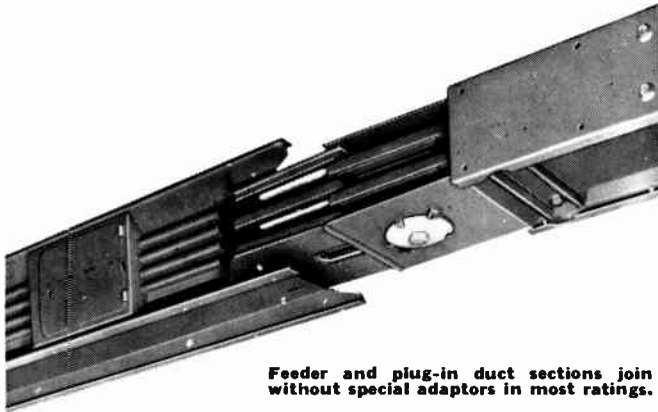
Ordering Instructions: 30 ampere branch units will be furnished on both NTFB and NTHB unless otherwise specified. 15 ampere units will not accept 20 or 30 ampere fuses. 20 ampere units will not accept 30 ampere fuses.

Note: Factory assembled lighting panelboard pricing is for all single pole circuit breakers. Consult Square D Digest or Graybar for complete pricing and combination circuit pricing.

The above items are subject to 50% Discount.

SQUARE D

**I-LINE® BUSWAY . . . BOTH FEEDER DUCT AND PLUG-IN DUCT
TOTALLY ENCLOSED LOW IMPEDANCE ONE BOLT JOINT**



Feeder and plug-in duct sections join without special adaptors in most ratings.



One bolt plug-in duct offers labor savings comparable to feeder duct.

I-LINE busway is a low impedance, high capacity duct in ratings from 225 amps through 3000 amps in plug-in construction and in ratings from 600 amps through 5000 amps in feeder duct construction. It provides extremely flexible and versatile power distribution with minimum voltage drop and power loss. Both copper and aluminum conductors are available. Totally enclosed construction allows mounting in any position without derating, and complies with the NEC paragraph on "extension through walls" without modification.

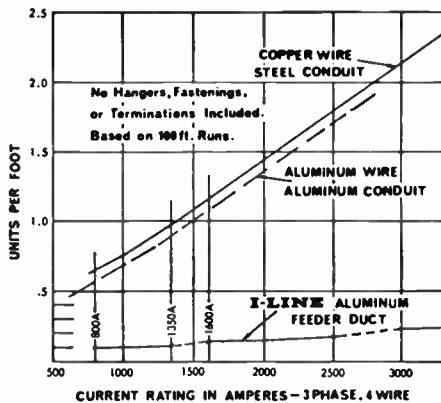
Plug-in duct is normally mounted with plug-in units along the sides, though the duct may be positioned with units arranged on top and bottom if job conditions require. A full line of plug-in devices is offered including fusible switch with visible blade, standard and high interrupting capacity circuit breaker, combination motor starter and contactor plug-in units and other special purpose plugs. Plug-in units are interlocked with the duct and incorporate a unique mounting arrangement allowing safe, rapid and easy installation on the duct.

TAKE ADVANTAGE OF THE TREMENDOUS INSTALLATION SAVINGS POSSIBLE WITH I-LINE!

I-LINE® VS. WIRE AND CONDUIT

Use I-LINE feeder duct instead of wire and conduit to cut the total cost for exposed (accessible) work. Although material costs are higher, the installation time of I-LINE is much less than that of wire and conduit. The installation time for wire and conduit is shown in the chart. The labor units for wire and conduit are based upon data from ESTIMATIC CORPORATION, without job factors, using 100 foot wire pulls and taking parallel wire pulls into account. Hangers or fastenings or terminations are not included.

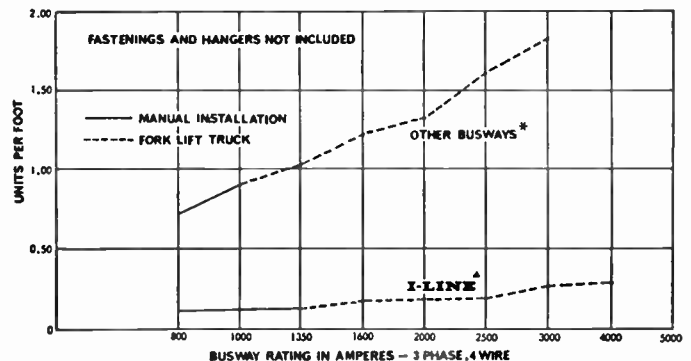
INSTALLATION TIME OF I-LINE VERSUS WIRE IN CONDUIT FOR EXPOSED WORK
No Hangers, Fastenings, or Terminations Included.
Based Upon 100 Ft. Runs



I-LINE® VS. OTHER FEEDER DUCT

Compare the installation time of I-LINE vs. the installation time of other feeder duct. The labor units shown in the charts allow direct comparison. Neither of the charts include job factors, hangers, fittings, terminals or rigging. I-LINE installs faster, through simplified joint construction, lighter weight, compact size. The proof is given in the Labor Cost Survey by ESTIMATIC CORPORATION. Contact your local Square D field office for your copy.

OTHER BUSWAY LABOR UNITS (3-Phase, 4-Wire)



* From Electrical Construction Cost Manual by Ralph E. Johnson, Copyright 1957, McGraw-Hill Book Co. Used by Permission. Δ From I-LINE Installation Labor Survey by Estimatic Corporation, Denver, Colorado.

SQUARE D COMPANY I-LINE® BUSWAY, TOTALLY ENCLOSED, LOW IMPEDANCE

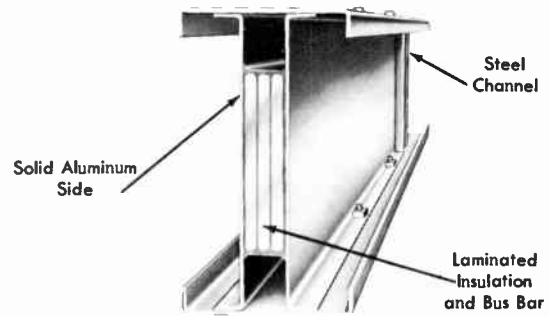
I-LINE busway includes both feeder duct and plug-in duct. Lengths are interchangeable within the same rating, and plug-in sections may be interspersed in feeder duct runs or vice versa without special adaptors. All I-LINE busway is totally enclosed and fully insulated over the entire length of each bus bar with Class B (130° C maximum operating temperature) insulation. Joints are of the "one bolt" interleaved type, and use a 3" spring steel washer to insure even pressure over the contact area.

I-LINE is totally enclosed in all ratings and is fully rated in all mounting positions. Runs may be installed in edgewise, flatwise or vertical positions with no derating. All bus bars, both aluminum and copper, are heavily electro-tin plated to insure low contact resistance and the best possible protection from corrosive atmospheres. Aluminum bus is prepared for plating using the Alstan 70* process.

Housings are constructed from formed steel or steel and aluminum sections, and are assembled so as to form rigid lengths which may be hung on 10'-0" hanger spacing. Standard short circuit bracing in all ratings of feeder duct is 100,000 amps RMS symmetrical.

I-LINE is manufactured in accordance with NEMA standards and is U/L listed under File Number E-22182.

*M & T Chemical Company.



I-LINE Feeder Duct

▲No. of Poles and Voltage	Rating Amps.	†STRAIGHT LENGTH						●ELBOW			◎TAP BOX (SERVICE HEAD)			
		Aluminum			Copper			Aluminum		Copper	Aluminum		Copper	
		Indoor Plug-In Cat. No.	Price Per Ft.	★Indoor Feeder Cat. No.	Indoor Plug-In Cat. No.	Price Per Ft.	★Indoor Feeder Cat. No.	Cat. No.	Price Labor Only	Cat. No.	Cat. No.	Price Labor Only	Cat. No.	
3 Pole 600 V.	225	AP-302	\$ 12.	.....	CP-302	\$ 15.	.....	AP-302-L	\$105.	CP-302-L	PTB-302	\$ 82.	PTB-302
	400	AP-304	16.	.....	CP-304	23.	.....	AP-304-L	105.	CP-304-L	PTB-304	103.	PTB-304
	600	AP-306	21.	.....	CP-306	29.	.....	AP-306-L	105.	CP-306-L	PTB-306	113.	PTB-306
	600	.....	24.	AF-306	.....	.....	.....	AF-306-L	105.	.....	AF-306-TB	134.	.....
	800	AP-308	28.	AF-308	CP-308	36.	.....	AF-308-L	105.	CP-308-L	AF-308-TB	134.	CP-308-TB
	800	.....	.....	.....	.....	42.	CF-308	105.	CF-308-L	.....	CF-308-TB	140.	CF-308-TB
	1000	AP-310	33.	AF-310	CP-310	45.	CF-310	105.	CF-310-L	.....	AF-310-TB	140.	CF-310-TB
	1350	AP-313	50.	AF-313	CP-313	68.	CF-313	140.	CF-313-L	.....	AF-313-TB	183.	CF-313-TB
	1600	AP-316	62.	AF-316	CP-316	81.	CF-316	140.	CF-316-L	.....	AF-316-TB	212.	CF-316-TB
	2000	AP-320	72.	AF-320	CP-320	102.	CF-320	140.	CF-320-L	.....	AF-320-TB	220.	CF-320-TB
	2500	AP-325	88.	AF-325	CP-325	127.	CF-325	140.	CF-325-L	.....	AF-325-TB	247.	CF-325-TB
	3000	AP-330	102.	AF-330	CP-330	152.	CF-330	140.	CF-330-L	.....	AF-330-TB	276.	CF-330-TB
4000	.....	138.	AF-340	.....	197.	CF-340	175.	CF-340-L	.....	AF-340-TB	301.	CF-340-TB	
5000	.....	175.	*	.....	237.	CF-350	175.	CF-350-L	.....	CF-350-TB	433.	CF-350-TB	
3 φ, 4 W. 277/480 V. 50% Neutral	225	AP-402	\$ 14.	.....	CP-402	\$ 19.	.....	AP-402-L	\$128.	CP-402-L	PTB-402	\$ 93.	PTB-402
	400	AP-404	21.	.....	CP-404	31.	.....	AP-404-L	128.	CP-404-L	PTB-404	113.	PTB-404
	600	AP-406	28.	.....	CP-406	35.	.....	AP-406-L	128.	CP-406-L	PTB-406	124.	PTB-406
	600	.....	28.	AF-406	.....	.....	.....	AF-406-L	128.	.....	AF-406-TB	144.	.....
	800	AP-408	33.	AF-408	CP-408	45.	.....	AF-408-L	128.	CP-408-L	AF-408-TB	144.	CP-408-TB
	800	.....	.....	.....	.....	50.	CF-408	128.	CF-408-L	.....	CF-408-TB	167.	CF-408-TB
	1000	AP-410	41.	AF-410	CP-410	55.	CF-410	128.	CF-410-L	.....	AF-410-TB	167.	CF-410-TB
	1350	AP-413	60.	AF-413	CP-413	80.	CF-413	175.	CF-413-L	.....	AF-413-TB	202.	CF-413-TB
	1600	AP-416	70.	AF-416	CP-416	95.	CF-416	175.	CF-416-L	.....	AF-416-TB	233.	CF-416-TB
	2000	AP-420	85.	AF-420	CP-420	118.	CF-420	175.	CF-420-L	.....	AF-420-TB	245.	CF-420-TB
	2500	AP-425	108.	AF-425	CP-425	148.	CF-425	175.	CF-425-L	.....	AF-425-TB	270.	CF-425-TB
	3000	AP-430	127.	AF-430	CP-430	178.	CF-430	175.	CF-430-L	.....	AF-430-TB	299.	CF-430-TB
4000	.....	189.	AF-440	.....	233.	CF-440	208.	CF-440-L	.....	AF-440-TB	332.	CF-440-TB	
5000	.....	216.	*	.....	283.	CF-450	208.	CF-450-L	.....	CF-450-TB	481.	CF-450-TB	
3 φ, 4 W. 277/480 V. 100% Neutral	225	AP-502	\$ 15.	.....	CP-502	\$ 23.	.....	AP-502-L	\$126.	CP-502-L	PTB-502	\$103.	PTB-502
	400	AP-504	23.	.....	CP-504	34.	.....	AP-504-L	126.	CP-504-L	PTB-504	124.	PTB-504
	600	AP-506	31.	.....	CP-506	42.	.....	AP-506-L	126.	CP-506-L	PTB-506	134.	PTB-506
	600	.....	34.	AF-506	.....	.....	.....	AF-506-L	126.	.....	AF-506-TB	155.	.....
	800	AP-508	38.	AF-508	CP-508	55.	.....	AF-508-L	126.	CP-508-L	AF-508-TB	155.	CP-508-TB
	800	.....	.....	.....	.....	55.	CF-508	126.	CF-508-L	.....	CF-508-TB	167.	CF-508-TB
	1000	AP-510	46.	AF-510	CP-510	68.	CF-510	126.	CF-510-L	.....	AF-510-TB	167.	CF-510-TB
	1350	AP-513	67.	AF-513	CP-513	93.	CF-513	175.	CF-513-L	.....	AF-513-TB	220.	CF-513-TB
	1600	AP-516	82.	AF-516	CP-516	110.	CF-516	175.	CF-516-L	.....	AF-516-TB	253.	CF-516-TB
	2000	AP-520	99.	AF-520	CP-520	135.	CF-520	175.	CF-520-L	.....	AF-520-TB	270.	CF-520-TB
	2500	AP-525	124.	AF-525	CP-525	167.	CF-525	175.	CF-525-L	.....	AF-525-TB	293.	CF-525-TB
	3000	AP-530	144.	AF-530	CP-530	204.	CF-530	175.	CF-530-L	.....	AF-530-TB	321.	CF-530-TB
4000	.....	196.	AF-540	.....	270.	CF-540	208.	CF-540-L	.....	AF-540-TB	363.	CF-540-TB	
5000	.....	247.	*	.....	324.	CF-550	208.	CF-550-L	.....	CF-550-TB	480.	CF-550-TB	

▲Consult factory for price of 2 pole busway.

†Refer to "Additions" section for short-circuit current ratings and pricing for short-circuit current ratings exceeding NEMA Standards.

★To price weatherproof feeder duct, add 20% to indoor price per foot. The fittings labor only charge is the same for indoor and weatherproof feeder duct. Catalog numbers of weatherproof aluminum feeder duct are similar to indoor duct in the above tables except that the prefix is "AFW" instead of "AF". The same is true of copper except that the prefix is "CFW" instead of "CF". When ordering weatherproof feeder duct, a layout sketch must accompany

the order. Sketch must show all dimensions, and must indicate whether duct is in flatwise, vertical or edgewise mounting position.

●For elbows other than 90 degrees, double the labor only charge.

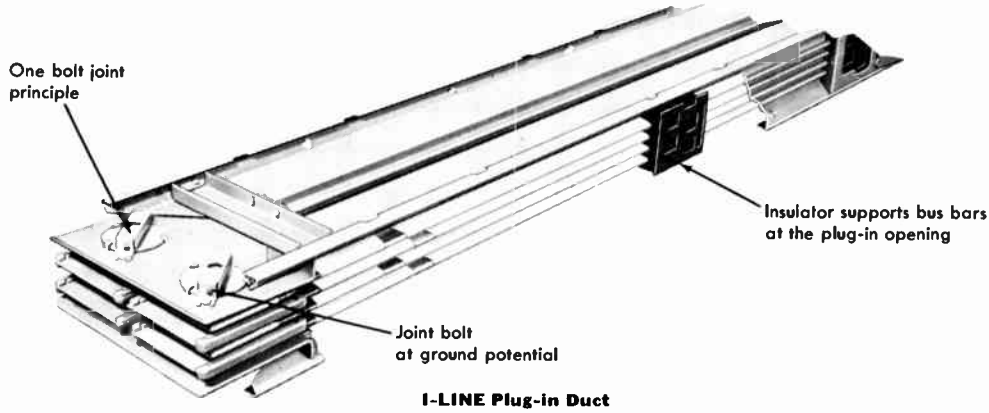
✚For lugs other than Square D manufacture, add lug charge from "Additions" section.

◎Type PTB cable tap boxes are plug-in devices and require no footage charge. When a plug-in cable tap box is used at the end of a run, order an end closure.

*5000 A. Aluminum will be supplied as two parallel runs.

The above items are subject to 50% Discount.

SQUARE D COMPANY I-LINE® BUSWAY, TOTALLY ENCLOSED LOW IMPEDANCE



No. of Poles and Voltage	Rating Amp.	FLANGED END		BUS EXTENSION		END CLOSURE						TEE			
		Aluminum		Copper		Aluminum			Copper			Aluminum		Copper	
		Cat. No.	Price Labor Only	Cat. No.	Price Per Foot	Price Per Foot	Indoor Plug-in Cat. No.	Price Each	Indoor Feeder Cat. No.	Indoor Plug-in Cat. No.	Price Each	Indoor Feeder Cat. No.	Cat. No.	Price Labor Only	Cat. No.
3 Pole 600 V.	225	AP-302-FE	\$ 67.	CP-302-FE	\$ 14.	\$ 15.	AP-502-EC	\$ 31.	CP-502-EC	\$ 31.	AF-302-T	\$126.	CP-302-T		
	400	AP-304-FE	77.	CP-304-FE	20.	27.	AP-504-EC	31.	CP-504-EC	31.	AP-304-T	126.	CP-304-T		
	600	AP-306-FE	100.	CP-306-FE	25.	34.	AP-506-EC	31.	CP-506-EC	31.	AP-306-T	126.	CP-306-T		
	600	AF-306-FE	100.		25.			31.	AF-508-EC			AF-306-T	126.		
	800	AF-308-FE	108.	CP-308-FE	32.	45.	AP-508-EC	31.	AF-508-EC	CP-508-EC	31.	AF-308-T	126.	CP-308-T	
	800		108.	CF-308-FE		45.					CF-510-EC		126.	CF-308-T	
	1000	AF-310-FE	122.	CF-310-FE	42.	57.	AP-510-EC	31.	AF-510-EC	CP-510-EC	31.	CF-510-EC	AF-310-T	126.	CF-310-T
	1350	AF-313-FE	142.	CF-313-FE	72.	98.	AP-513-EC	31.	AF-513-EC	CP-513-EC	31.	CF-513-EC	AF-313-T	175.	CF-313-T
	1600	AF-316-FE	156.	CF-316-FE	82.	115.	AP-516-EC	41.	AF-516-EC	CP-516-EC	31.	CF-516-EC	AF-316-T	175.	CF-316-T
	2000	AF-320-FE	187.	CF-320-FE	104.	143.	AP-520-EC	41.	AF-520-EC	CP-520-EC	41.	CF-520-EC	AF-320-T	175.	CF-320-T
	2500	AF-325-FE	223.	CF-325-FE	138.	192.	AP-525-EC	41.	AF-525-EC	CP-525-EC	41.	CF-525-EC	AF-325-T	175.	CF-325-T
	3000	AF-330-FE	263.	CF-330-FE	222.	242.		52.	AF-530-EC	CP-530-EC	41.	CF-530-EC	AF-330-T	175.	CF-330-T
4000	AF-340-FE	328.	CF-340-FE	319.	441.		52.	AF-540-EC		52.	CF-550-EC	AF-340-T	208.	CF-340-T	
5000		383.	CF-350-FE	461.	659.		82.			52.	CF-550-EC	AF-340-T	208.	CF-350-T	
3 φ, 4 W 277/480 V. 50% Neutral	225	AP-402-FE	\$ 70.	CP-402-FE	\$ 24.	\$ 26.	AP-502-EC	\$ 31.	CP-502-EC	\$ 31.	AF-402-T	\$148.	CP-402-T		
	400	AP-404-FE	80.	CP-404-FE	30.	41.	AP-504-EC	31.	CP-504-EC	31.	AP-404-T	148.	CP-404-T		
	600	AP-406-FE	103.	CP-406-FE	37.	49.	AP-506-EC	31.	CP-506-EC	31.	AP-406-T	148.	CP-406-T		
	600	AF-406-FE	103.		37.			31.	AF-508-EC			AF-408-T	148.		
	800	AF-408-FE	111.	CP-408-FE	47.	66.	AP-508-EC	31.	AF-508-EC	CP-508-EC	31.	AF-408-T	148.	CP-408-T	
	800		111.	CF-408-FE		66.					CF-510-EC		148.	CF-408-T	
	1000	AF-410-FE	126.	CF-410-FE	56.	76.	AP-510-EC	31.	AF-510-EC	CP-510-EC	31.	CF-510-EC	AF-410-T	148.	CF-410-T
	1350	AF-413-FE	146.	CF-413-FE	76.	105.	AP-513-EC	31.	AF-513-EC	CP-513-EC	31.	CF-513-EC	AF-413-T	208.	CF-413-T
	1600	AF-416-FE	167.	CF-416-FE	94.	131.	AP-516-EC	41.	AF-516-EC	CP-516-EC	31.	CF-516-EC	AF-416-T	208.	CF-416-T
	2000	AF-420-FE	194.	CF-420-FE	111.	153.	AP-520-EC	41.	AF-520-EC	CP-520-EC	41.	CF-520-EC	AF-420-T	208.	CF-420-T
	2500	AF-425-FE	234.	CF-425-FE	150.	208.	AP-525-EC	41.	AF-525-EC	CP-525-EC	41.	CF-525-EC	AF-425-T	208.	CF-425-T
	3000	AF-430-FE	281.	CF-430-FE	240.	269.		52.	AF-530-EC	CP-530-EC	41.	CF-530-EC	AF-430-T	208.	CF-430-T
4000	AF-440-FE	344.	CF-440-FE	341.	474.		52.	AF-540-EC		52.	CF-550-EC	AF-440-T	243.	CF-440-T	
5000		394.	CF-450-FE	494.	711.		82.			52.	CF-550-EC	AF-440-T	243.	CF-450-T	
3 φ, 4 W 277/480 V. 100% Neutral	225	AP-502-FE	\$ 70.	CP-502-FE	\$ 27.	\$ 36.	AP-502-EC	\$ 31.	CP-502-EC	\$ 31.	AF-502-T	\$148.	CP-502-T		
	400	AP-504-FE	80.	CP-504-FE	38.	54.	AP-504-EC	31.	CP-504-EC	31.	AP-504-T	148.	CP-504-T		
	600	AP-506-FE	103.	CP-506-FE	49.	68.	AP-506-EC	31.	CP-506-EC	31.	AP-506-T	148.	CP-506-T		
	600	AF-506-FE	103.		49.			31.	AF-508-EC			AF-506-T	148.		
	800	AF-508-FE	114.	CP-508-FE	52.	74.	AP-508-EC	31.	AF-508-EC	CP-508-EC	31.	AF-508-T	148.	CP-508-T	
	800		114.	CF-508-FE		74.					CF-510-EC		148.	CF-508-T	
	1000	AF-510-FE	134.	CF-510-FE	60.	81.	AP-510-EC	31.	AF-510-EC	CP-510-EC	31.	CF-510-EC	AF-510-T	148.	CF-510-T
	1350	AF-513-FE	153.	CF-513-FE	81.	114.	AP-513-EC	31.	AF-513-EC	CP-513-EC	31.	CF-513-EC	AF-513-T	208.	CF-513-T
	1600	AF-516-FE	177.	CF-516-FE	104.	143.	AP-516-EC	41.	AF-516-EC	CP-516-EC	31.	CF-516-EC	AF-516-T	208.	CF-516-T
	2000	AF-520-FE	204.	CF-520-FE	119.	166.	AP-520-EC	41.	AF-520-EC	CP-520-EC	41.	CF-520-EC	AF-520-T	208.	CF-520-T
	2500	AF-525-FE	247.	CF-525-FE	161.	225.	AP-525-EC	41.	AF-525-EC	CP-525-EC	41.	CF-525-EC	AF-525-T	208.	CF-525-T
	3000	AF-530-FE	293.	CF-530-FE	258.	282.	AP-530-EC	52.	AF-530-EC	CP-530-EC	41.	CF-530-EC	AF-530-T	208.	CF-530-T
4000	AF-540-FE	365.	CF-540-FE	365.	507.		52.	AF-540-EC		52.	CF-550-EC	AF-540-T	243.	CF-540-T	
5000		456.	CF-550-FE	525.	762.		82.			52.	CF-550-EC	AF-540-T	243.	CF-550-T	

The Types CP, AF and CF cable tap boxes are factory assembled and include Square D standard lugs. If special lugs are required, add special lug charges from "Additions" section. The cable tap box price does not include duct footage. Duct footage should be figured through tap boxes at center of run and to the centerline of tap boxes at end of run.

SERVICE HEADS (WEATHERPROOF)

Service heads are factory assembled and include Square D standard lugs. If special lugs are required, add special lug charge. Price duct footage to end of duct run including dimension of service head. The vertical service head requires 24 inches of duct footage; the flatwise service head requires 20 inches of duct footage. Add cable tap box charges. The standard service head will accept service cable through a removable insulating bottom plate. If conduit entrance is required, additional gutter space and a steel bottom plate will be furnished.

BUSWAY PRICING

Prepare a layout sketch of the run showing all dimensions in feet and inches, all wall and floor locations and thicknesses and all fittings such as elbows, tees, crosses, flanged ends, end closures, cable tap boxes, expansion joints and reducers. Add all dimensions together and adjust the total to the higher whole foot. Multiply this total by the price per foot as determined by the type (plug-in or feeder) (aluminum or copper) (indoor or weatherproof), the ampere rating and the number of poles. To this add the labor only charges for each of the elbows, tees, crosses, flanged ends, expansion joints and reducers. To this add the price for each of the cable tap boxes, service heads, tap-off devices, transformer taps and end closures. Add for any bus extension or special features such as roof flanges, special lugs, ground bus. The sum of all these items is the price of the entire layout of duct.

The above items are subject to 50% Discount.

SQUARE D COMPANY I-LINE® BUSWAY, TOTALLY ENCLOSED, LOW IMPEDANCE

SHORT-CIRCUIT RATINGS — PLUG-IN DUCT

ADDITIONS

Nameplate Rating Amperes		SHORT-CIRCUIT CURRENT RATING — AMPERES						PRICING To obtain price of APH & CPH busway, price as AP or CP and add as follows
		NEMA Standard		Type AP & CP		Type APH & CPH		
Aluminum	Copper	Symmetrical	Asymmetrical	Symmetrical	Asymmetrical	Symmetrical	Asymmetrical	
225	225	14,000	15,000	20,000	23,000	.....	.....	.....
400, 600	400, 600, 800	22,000	25,000	22,000	25,000	42,000	50,000	Add 10% to total footage price.
800, 1000 1350	1000 1350, 1600	22,000 42,000	25,000 50,000	42,000 42,000	50,000 50,000	65,000 65,000	75,000 75,000	Add 10% to footage price of plug-in duct straight lengths only.
1600 2000, 2500	2000 2500, 3000	42,000 65,000	50,000 75,000	65,000 65,000	75,000 75,000	85,000 85,000	100,000 100,000	Add 6% to footage price of plug-in duct straight lengths only.

SHORT-CIRCUIT RATINGS — FEEDER DUCT

All ratings of feeder duct are braced for 100,000 amps. symmetrical. For ratings above 100,000 amps. — consult factory.

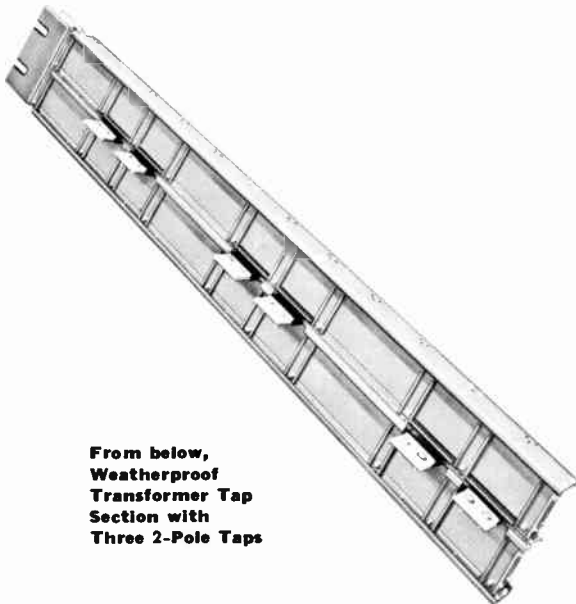
SPECIAL FEATURES

Wall or Floor Flange — 225 through 2500 amp.	Each	\$ 36.
3000 through 5000 amp.		52.
Internal Vapor Barrier (required when duct passes through exterior wall or roof).....		77.
Roof Flange (weatherproof).....		258.
Includes: Internal Vapor Barrier and Flange Collar		77.
Drip Hood Attached to Duct.....		104.
Roof Collar (attaches to roof).....		77.
Lugs other than Square D manufacture	Each	
(Applies to Transformer Taps, Tap Boxes, Service Heads, etc., when non-standard lugs are required)	500 MCM	\$ 9.
	750 MCM	15.
	1000 MCM	18.
500 MCM Lugs Mounted on Flanged End. Standard Square D Lugs		5.
Fire Barrier		No charge

GROUND BUS

Duct Rating	Ground Bus Price Per Foot	Duct Rating	Ground Bus Price Per Foot
225-1000	\$4.	2500-3000	\$12.
1350-2000	8.	4000	18.
		5000	20.

Ground bus is supplied as an internal copper bar of 25% of the cross sectional area of the phase conductors. It is braced against the forces of fault currents in the same way as are the phase conductors.



From below,
Weatherproof
Transformer Tap
Section with
Three 2-Pole Taps

Transformer Tap

DUCT MOUNTED PANELBOARD

Price complete ML, QMB or I-LINE panelboard from panelboard section of catalog. Add both panelboard provisions charge and duct connection charge from the tables below. Panelboard is shipped separate from the duct and is provided with bussing which connects with stabs from the duct. Duct and panel are joined on the job.

PANELBOARD PROVISIONS CHARGE — Add to Duct Price

Panelboard System	Panelboard Mains Rating			
	200 A.	400 A.	600 A.	800 A.
1 φ, 2 W.	\$115.	\$122.	\$128.	\$134.
1 φ, 3 W.	142.	150.	159.	167.
3 φ, 3 W.	142.	150.	159.	167.
3 φ, 4 W.	175.	183.	192.	200.

DUCT CONNECTION CHARGE — Add to Panelboard Price

Panelboard System	Panelboard Mains Rating			
	200 A.	400 A.	600 A.	800 A.
1 φ, 2 W.	\$ 93.	\$113.	\$134.	\$185.
1 φ, 3 W.	113.	134.	165.	247.
3 φ, 3 W.	113.	134.	165.	247.
3 φ, 4 W.	134.	155.	196.	309.

TRANSFORMER TAPS — PRICING

Rating of Duct (Amperes)	*Price Each Tap Group (See Tap Requirements Table) Consult Square D Catalog For Standard Dimensions			
	2 Tap Group	3 Tap Group	4 Tap, 1/2 N Group	4 Tap, FN Group
600	\$ 97.	\$121.	\$124.	\$128.
800	104.	130.	133.	136.
1000	119.	151.	158.	164.
1350	136.	177.	182.	188.
1600	164.	196.	207.	216.
2000	184.	227.	235.	244.
2500	213.	272.	284.	296.
3000	248.	320.	340.	350.
4000	285.	376.	393.	412.
5000	330.	412.	464.	515.

TAP REQUIREMENTS

System	1 Transformer	3 — 1 φ Transformers Connected in Delta	3 — 1 φ Transformers Connected in Wye
1 φ, 2 W.	1 — 2 Pole	.....	.....
1 φ, 3 W.	1 — 3 Pole	.....	.....
3 φ, 3 W.	1 — 3 Pole	3 — 2 Pole	3 — 2 Pole
3 φ, 4 W.	1 — 4 Pole	2 — 2 P. & 1 — 3 P.	3 — 2 Pole

*Price does not include duct footage. Figure duct footage price from actual job dimensions. Use standard dimensions whenever possible. Note that taps need not be located directly above transformers for cable connections. Price of taps includes lugs; if lugs other than standard Square D manufacture are required, add charges from "Lugs" section above. The transformer tap is 7 inches long; if additional bussing is required, add price for bus extension.

The above items are subject to 50% Discount.

SQUARE D COMPANY I-LINE® BUSWAY, TOTALLY ENCLOSED, LOW IMPEDANCE FUSIBLE SWITCH PLUG-IN UNITS

TYPE PQ FLOOR OPERABLE — QUICK-MAKE, QUICK-BREAK

Rating Amps.	240 V. AC — 250 V. DC				120/208 V. AC		600 V. AC				277/480 V. AC	
	*2 Pole — 2 Fuse		3 Pole — 3 Fuse		4 Pole — 3 Fuse		*2 Pole — 2 Fuse		3 Pole — 3 Fuse		4 Pole — 3 Fuse	
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
30	PQ-2203	\$ 46.	PQ-3203	\$ 57.	PQ-4203	\$ 67.	PQ-2603	\$ 48.	PQ-3603	\$ 58.	PQ-4603	\$ 70.
60	PQ-2206	52.	PQ-3206	61.	PQ-4206	71.	PQ-2606	56.	PQ-3606	65.	PQ-4606	76.
100	PQ-2210	78.	PQ-3210	91.	PQ-4210	101.	PQ-2610	82.	PQ-3610	94.	PQ-4610	110.
200	PQ-2220	138.	PQ-3220	164.	PQ-4220	179.	PQ-2620	152.	PQ-3620	167.	PQ-4620	185.
400	PQ-2240	286.	PQ-3240	396.	PQ-4240	426.	PQ-2640	302.	PQ-3640	396.	PQ-4640	426.
600	PQ-2260	496.	PQ-3260	546.	PQ-4260	600.	PQ-2660	526.	PQ-3660	574.	PQ-4660	600.

TYPE PS NON FLOOR OPERABLE — QUICK-MAKE, QUICK-BREAK

Rating Amps.	240 V. AC — 250 V. DC				120/208 V. AC		600 V. AC				277/480 V. AC	
	*2 Pole — 2 Fuse		3 Pole — 3 Fuse		4 Pole — 3 Fuse		*2 Pole — 2 Fuse		3 Pole — 3 Fuse		4 Pole — 3 Fuse	
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
30	PS-2203	\$ 38.	PS-3203	\$ 42.	PS-4203	\$ 53.	PS-2603	\$ 40.	PS-3603	\$ 44.	PS-4603	\$ 55.
60	PS-2206	40.	PS-3206	46.	PS-4206	57.	PS-2606	42.	PS-3606	48.	PS-4606	59.
100	PS-2210	54.	PS-3210	60.	PS-4210	70.	PS-2610	56.	PS-3610	68.	PS-4610	78.

*Two pole units are supplied with A φ and C φ connections. If A-B or B-C connections are required, order 3 pole units.

Fusible Switch Plug-In Units can be plugged in at any opening of aluminum or copper plug-in duct. Plug-in units with 600 A. switches plug into any 2 adjacent openings spaced 24" apart. Units rated 400 A. require space of two openings. Add suffix "LB" to Catalog Number of plug-in units with switch ratings of 200 A., 400 A., and 600 A. when units are to be supplied as lug to bus main switches; e.g., PQ-3640-LB.

Class J Fuses — Add suffix "J" to catalog number (600 V. and 277/480 V. only) for Class J fuse provisions. For 2, 3 or 4 pole units, 400 amp., add \$5. price per unit. For 2 pole, 600 amp. unit, add \$30., for 3 or 4 poles, 600 amp. unit, add \$45.

Unfused Units — Use price of 250 V. fusible switch units for either 250 V. or 600 V. application.

Circuit Breaker Plug-in Unit



Fusible Plug-in Unit

- Quick-Make, Quick-Break
- Interlocked
- Visible Blade



CIRCUIT BREAKER PLUG-IN UNITS — FLOOR OPERABLE

Type of Bkr.	Bkr. Frame Amps.	Trip Rating Amps.	240 V. AC — 125/250 V. DC				120/208 V. AC		Type of Bkr.	Bkr. Frame Amps.	Trip Rating Amps.	600 V. AC — 250 V. DC				277/480 V. AC				
			●2 Pole		3 Pole		3 φ, 4W					●2 Pole		3 Pole		3 φ, 4W				
			Cat. No.	Price	Cat. No.	Price	Cat. No.	Price				Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	
FA	100	(240 V.)	15	PFA-22015	\$ 67.	PFA-32015	\$ 89.	PFA-32015-N	\$102.	FA	100	15	PFA-26015	\$105.	PFA-36015	\$126.	PFA-36015-N	\$139.		
			20	PFA-22020	67.	PFA-32020	89.	PFA-32020-N	102.			20	PFA-26020	105.	PFA-36020	126.	PFA-36020-N	139.		
			30	PFA-22030	67.	PFA-32030	89.	PFA-32030-N	102.			30	PFA-26030	105.	PFA-36030	126.	PFA-36030-N	139.		
			40	PFA-22040	67.	PFA-32040	89.	PFA-32040-N	102.			40	PFA-26040	105.	PFA-36040	126.	PFA-36040-N	139.		
			50	PFA-22050	87.	PFA-32050	89.	PFA-32050-N	102.			50	PFA-26050	105.	PFA-36050	126.	PFA-36050-N	139.		
FA	100	(480 V.)	60	PFA-22060	96.	PFA-32060	108.	PFA-32060-N	122.	60	PFA-26060	123.	PFA-36060	142.	PFA-36060-N	156.				
			70	PFA-22070	96.	PFA-32070	108.	PFA-32070-N	122.	70	PFA-26070	123.	PFA-36070	142.	PFA-36070-N	156.				
			100	PFA-22100	96.	PFA-32100	108.	PFA-32100-N	122.	100	PFA-26100	123.	PFA-36100	142.	PFA-36100-N	156.				
			Type of Bkr.	Bkr. Frame Amps.	Trip Rating Amps.	480 V. AC — 250 V. DC				277/480 V. AC		Type of Bkr.	Bkr. Frame Amps.	Trip Rating Amps.	●2 Pole		3 Pole		3 φ, 4W	
						Cat. No.	Price	Cat. No.	Price	Cat. No.	Price				Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
KA	225	(600 V.)				125	PKA-26125	\$272.	PKA-36125	\$320.	PKA-36125-N				\$334.	125	PKA-26125	\$272.	PKA-36125	\$320.	PKA-36125-N	$334.
			150	PKA-26150	272.	PKA-36150	320.	PKA-36150-N	334.	150	PKA-26150	272.	PKA-36150	320.	PKA-36150-N	334.				
			175	PKA-26175	272.	PKA-36175	320.	PKA-36175-N	334.	175	PKA-26175	272.	PKA-36175	320.	PKA-36175-N	334.				
LA	400	(600 V.)	200	PKA-26200	272.	PKA-36200	320.	PKA-36200-N	334.	200	PKA-26200	272.	PKA-36200	320.	PKA-36200-N	334.				
			225	PKA-26225	272.	PKA-36225	320.	PKA-36225-N	334.	225	PKA-26225	272.	PKA-36225	320.	PKA-36225-N	334.				
			MA	800	(600 V.)	250	PLA-26250	\$598.	PLA-36250	\$687.	PLA-36250-N	\$707.	250	PLA-26250	\$598.	PLA-36250	\$687.	PLA-36250-N	\$707.	
300	PLA-26300	598.				PLA-36300	687.	PLA-36300-N	707.	300	PLA-26300	598.	PLA-36300	687.	PLA-36300-N	707.				
350	PLA-26350	598.				PLA-36350	687.	PLA-36350-N	707.	350	PLA-26350	598.	PLA-36350	687.	PLA-36350-N	707.				
MA	800	(600 V.)	400	PLA-26400	598.	PLA-36400	687.	PLA-36400-N	707.	400	PLA-26400	598.	PLA-36400	687.	PLA-36400-N	707.				
			500	PMA-26500	\$783.	PMA-36500	\$930.	PMA-36500-N	\$982.	500	PMA-26500	\$783.	PMA-36500	\$930.	PMA-36500-N	\$982.				
			600	PMA-26600	783.	PMA-36600	930.	PMA-36600-N	982.	600	PMA-26600	783.	PMA-36600	930.	PMA-36600-N	982.				
MA	800	(600 V.)	700	PMA-26700	783.	PMA-36700	1140.	PMA-36700-N	1192.	700	PMA-26700	783.	PMA-36700	1140.	PMA-36700-N	1192.				
			800	PMA-26800	783.	PMA-36800	1140.	PMA-36800-N	1192.	800	PMA-26800	783.	PMA-36800	1140.	PMA-36800-N	1192.				

●Two pole units are supplied with A φ and C φ connections. Add suffix to designate other connections, if desired; e.g., PFA-2230-BC.

Circuit Breaker Plug-In Units can be plugged in at any opening of aluminum or copper plug-in duct. Plug-in units with 800 A. frame circuit breakers plug into any 2 adjacent openings spaced 24" apart. Units rated 400 A. require space of two openings.

Add Suffix "LB" to Catalog Number of plug-in units with circuit breaker trip ratings of 225 A. and above when units are to be supplied as lug to bus main breakers; e.g., PLA-36400-LB.

The above items are subject to 50% Discount.

SQUARE D COMPANY I-LINE® BUSWAY, TOTALLY ENCLOSED LOW IMPEDANCE

VERTICAL E-Z STACK TAPS AND REDUCED CAPACITY CABLE TAP BOXES

Reduced Capacity Cable Tap Boxes: If reduced capacity cable tap boxes are required; i.e., 1000 amp. tap box on 4000 amp. duct, price from table. Tap boxes are factory assembled and include Square D standard lugs. Prices do not include duct footage.

Vertical E-Z Stack Taps: Price from table includes connection box and connectors for adjacent-mounted Vertical E-Z Stack.

System Service	E-Z Stack		Cable Tap Box		
	600 A.	400 A.	600 A.	800 A.	1000 A.
1 φ, 2W.	.....	\$134.	\$142.	\$150.	\$161.
1 φ, 3W.	\$175.	167.	175.	183.	194.
3 φ, 3W.	.....	167.	175.	183.	194.
3 φ, 4W.	208.	200.	208.	220.	233.

HANGERS

All I-LINE busway is U/L listed for 10 foot hanger spacing in the flatwise (normal) mounting position and in the vertical mounting position. I-LINE busway is U/L listed for 10 foot hanger spacing in the edgewise mounting position except as follows:

Type AP 225 A and CP 225 A 5 foot maximum spacing
 Type AP 400 A and CP 400 A, 600 A

..... requires Cat. #ACP-2-SC for 10 foot spacing

Type AP 600 A and CP 800 A

..... requires Cat. #ACP-3-SC for 10 foot spacing

Support channels Cat. #ACP-2-SC and ACP-3-SC will be furnished at no charge if requested at time of order entry.

Hangers are packaged separately with one hanger being furnished for each 10 feet of duct. If less than 10 foot hanger spacing is required additional hangers will be shipped no charge if entered with order.

If sway bracing is required, order Cat. #HP-1-SBC at \$1.00 each.

EXPANSION FITTINGS

Expansion fitting labor only charge does not include duct footage. The expansion fitting is built into a 5 foot straight length and cannot be ordered separately. Limit of expansion or contraction is ± 1½ inches.

REDUCER (UNFUSED)

Unfused reducers are used to reduce from a higher amperage busway to a lower amperage. Labor only prices are listed in table and do not include duct footage. Reducers are built into a straight length of duct. Price each rating of duct to the centerline of reducer and include the labor only price of the higher rating. NOTE: Local inspection rulings or National Electric Code Article 364 govern the use of unfused reducer.

JOINT TIE CHANNELS

Joint tie channels are shipped with each piece of busway except — Cat. #AJC-1 adapter tie channels are required to connect feeder duct to plug-in duct of like current rating and number of poles. One set of adapter tie channels, Cat. #AJC-1, will be furnished at no charge for each feeder to plug-in joint connection. Order separately.

JOINT PACKAGE ASSEMBLY

I-LINE busway does not require joint packages. All conductor connection parts are assembled to the duct ends.

No. of Poles and Voltage	Rating Amps.	EXPANSION FITTING	REDUCER	VERTICAL SPRING HANGER	CROSS
		Price Labor Only	Price Labor Only	Price Each	Price Labor Only
3 Pole 600 V.	225	\$170.	.....	\$16.	\$148.
	400	191.	\$ 66.	16.	148.
	600	208.	72.	16.	148.
	800	272.	95.	16.	148.
	1000	290.	107.	16.	148.
	1350	302.	231.	16.	208.
	1600	408.	258.	16.	208.
	2000	442.	325.	16.	208.
	2500	476.	428.	16.	208.
	3000	598.	505.	21.	208.
3 φ, 4 W. 277/480 V. 50% Neutral	4000	723.	637.	21.	243.
	5000	761.	789.	21.	243.
	225	\$200.	.....	\$16.	\$173.
	400	217.	\$ 91.	16.	173.
	600	247.	99.	16.	173.
	800	299.	122.	16.	173.
	1000	340.	143.	16.	173.
	1350	383.	272.	16.	243.
	1600	496.	299.	16.	243.
	2000	530.	391.	16.	243.
3 φ, 4 W. 277/480 V. 100% Neutral	2500	564.	496.	16.	243.
	3000	734.	591.	21.	243.
	4000	850.	760.	21.	278.
	5000	897.	927.	21.	278.
	225	\$200.	.....	\$16.	\$173.
	400	217.	\$ 91.	16.	173.
	600	247.	99.	16.	173.
	800	299.	122.	16.	173.
	1000	340.	143.	16.	173.
	1350	449.	313.	16.	243.
3 φ, 4 W. 277/480 V. 100% Neutral	1600	544.	340.	16.	243.
	2000	578.	457.	16.	243.
	2500	625.	564.	16.	243.
	3000	823.	678.	21.	243.
	4000	954.	884.	21.	278.
	5000	993.	1066.	21.	278.

MOTOR STARTER AND MAGNETIC CONTACTOR PLUG-IN UNITS

NEMA Size	Max. Hp Rating — 3 Phase		Motor Starter Units				NEMA Size	Magnetic Contactor Units			
	240 V., AC	440/550 V., AC	With Fusible Disconnect		With Circuit Breaker			With Fusible Disconnect		With Circuit Breaker	
			Catalog Number	Price	Catalog Number	Price		Catalog Number	Price	Catalog Number	Price
0	3	5	PCS-8538-()	\$230.	PCS-8539-()	\$241.	0	PMC-8502-()	\$230.	PMCB-8502-()	\$241.
1	7½	10	PCS-8538-()	241.	PCS-8539-()	249.	1	PMC-8502-()	241.	PMCB-8502-()	249.
2	15	25	PCS-8538-()	309.	PCS-8539-()	338.	2	PMC-8502-()	309.	PMCB-8502-()	338.
3	30	60	PCS-8538-()	605.	PCS-8539-()	489.	3	PMC-8502-()	505.	PMCB-8502-()	469.

LIGHTING CONTACTOR PLUG-IN UNITS

ADDITIONS

*Lighting Contactor Units With Fusible Disconnect			Description	Form Letter	Price Each		
Amps.	Catalog Number	Price			Size 0 & 1	Size 2	Size 3
30	PMC-8903-()	\$241.	Pilot Light — Red	P-1	\$37.	\$37.	\$37.
60	PMC-8903-()	309.	Pilot Light — Green	P-2	37.	37.	37.
100	PMC-8903-()	505.	Control Circuit Transformer	FT	29.	32.	47.
			Additional Electrical Interlock	X	15.50	15.50	15.50
			Additional Thermal Overload Relay	J	8.20	13.40	25.

*480 Volts Maximum.

ORDERING INSTRUCTIONS:

1. Devices shown above are 3-pole, 3-φ, 60 cycle, full-voltage, single speed, non-reversing. Select Catalog Number from table. Obtain suffix column headed "General Purpose Enclosure NEMA 1 Type 1" from starter or contactor Digest page; e.g., PCS-8539-SCG-13 is a starter unit for use with a 5 H.P., 3 pole, 220 volt motor.

2. Specify H.P., voltage, phases, frequency, and full load current of motor. Specify fuse clip size when ordering Class 8502 or Class 8903 units.

3. If control voltage is different from line voltage, specify control voltage and frequency.

4. For additions or special features, select Form Letter from table and list on order immediately following Catalog Number.

GROUND INDICATOR PLUG-IN UNITS

PLUG-IN UNITS — MISCELLANEOUS

240 V. 3P. UNIT		575 V. 3P. UNIT	
Cat. No.	Price	Cat. No.	Price
PGD-3200	\$95.	PGD-3600	\$95.

Various types of plug-in units such as Transformers, and Plug-in Panelboards are also available. For further information contact your nearest Square D Field Office.

The above items are subject to 50% Discount.

FPE PLUG-IN, FEEDER, AND LOW IMPEDANCE BUS DUCT

Copper and Aluminum Bus Bars

Type	Amperes	LIST PRICE PER FOOT						LIST PRICE LABOR ONLY—ADD FOOTAGE							
		ALUMINUM			COPPER			90 Elbow	Tee	Cross	Reducer Unfused	Expansion Joint	NOTE 1 Transformer Taps		Trans-position
		IN-DOOR	OUTDOOR		IN-DOOR	OUTDOOR							1-3 Phase	3-1 Phase	
			Totally Enc.	Ventilated		Totally Enc.	Ventilated								

3 Pole—600 Volts

Standard Plug-in or Feeder Duct	225	\$12.	\$ —	\$ —	\$16.	\$ —	\$ —	\$102.	\$122.	\$144.	\$ —	\$165.	\$ —	\$ —	\$ 130.
	400	15.	—	—	22.	—	—	102.	122.	144.	64.	185.	—	—	130.
	600	20.	—	—	29.	—	—	102.	122.	144.	70.	205.	—	—	130.
	800	27.	—	—	37.	—	—	102.	122.	144.	92.	264.	—	—	130.
	1000	32.	—	—	44.	—	—	102.	122.	144.	104.	297.	—	—	130.
Low Impedance Feeder Duct <input type="checkbox"/> Note 6	600	23.	30.	27.	—	40.	—	136.	170.	202.	181.	250.	177.	454.	—
	800	30.	35.	34.	38.	48.	44.	136.	170.	202.	202.	280.	184.	469.	—
	1000	35.	58.	40.	47.	68.	54.	136.	170.	202.	223.	300.	191.	487.	—
	1350	49.	68.	56.	64.	92.	72.	136.	170.	202.	265.	350.	205.	520.	—
	1600	58.	85.	67.	76.	114.	87.	136.	170.	202.	295.	400.	215.	541.	—
	2000	69.	101.	79.	95.	138.	108.	136.	170.	202.	346.	430.	232.	580.	—
	2500	83.	134.	100.	116.	183.	134.	136.	170.	202.	416.	500.	246.	628.	—
	3000	102.	166.	110.	143.	208.	163.	150.	170.	202.	490.	600.	290.	687.	—
3500	110.	—	120.	170.	228.	217.	150.	170.	202.	550.	670.	315.	740.	—	
4500	136.	—	158.	198.	—	244.	170.	202.	236.	618.	702.	338.	783.	—	
5500	—	—	—	246.	—	278.	170.	202.	236.	766.	814.	399.	909.	—	
Standard Outdoor Feeder* Duct for Service Entrance	400	—	—	—	—	33.	—	134.	169.	202.	—	—	81.	192.	—
	600	—	—	—	—	40.	—	134.	169.	202.	—	—	93.	213.	—
	800	—	—	—	—	52.	—	134.	169.	202.	—	—	98.	240.	—
	1000	—	—	—	—	63.	—	134.	169.	202.	—	—	106.	270.	—
	1250	—	—	—	—	74.	—	134.	169.	202.	—	—	121.	312.	—
	1500	—	—	—	—	85.	—	134.	169.	202.	—	—	139.	357.	—

3 Pole 4 Wire—Half Neutral—277/480 Volts

Standard Plug-in or Feeder Duct	225	14.	—	—	19.	—	—	122.	144.	168.	—	194.	—	—	150.
	400	20.	—	—	27.	—	—	122.	144.	168.	88.	211.	—	—	150.
	600	25.	—	—	34.	—	—	122.	144.	168.	96.	240.	—	—	150.
	800	33.	—	—	46.	—	—	122.	144.	168.	118.	290.	—	—	150.
	1000	40.	—	—	53.	—	—	122.	144.	168.	136.	330.	—	—	150.
Low Impedance Feeder Duct <input type="checkbox"/> Note 6	600	27.	35.	32.	—	46.	—	170.	202.	250.	170.	365.	184.	454.	—
	800	35.	43.	40.	46.	58.	53.	170.	202.	250.	205.	390.	191.	469.	—
	1000	43.	68.	49.	56.	80.	66.	170.	202.	250.	230.	440.	199.	487.	—
	1350	57.	84.	66.	77.	110.	88.	170.	202.	250.	270.	530.	216.	520.	—
	1600	68.	102.	79.	91.	138.	106.	170.	202.	250.	290.	560.	228.	541.	—
	2000	85.	125.	98.	116.	165.	130.	170.	202.	250.	380.	610.	248.	580.	—
	2500	102.	166.	122.	140.	220.	162.	170.	202.	250.	480.	800.	257.	628.	—
	3000	123.	—	135.	170.	246.	194.	202.	236.	250.	580.	920.	307.	687.	—
3500	145.	—	148.	200.	275.	260.	202.	236.	250.	640.	960.	353.	740.	—	
4500	164.	—	245.	240.	—	290.	202.	236.	250.	950.	1000.	410.	783.	—	
5500	—	—	—	296.	—	324.	202.	236.	250.	950.	1000.	450.	909.	—	
Standard Outdoor Feeder* Duct for Service Entrance	400	—	—	—	—	40.	—	169.	202.	238.	—	—	81.	192.	—
	600	—	—	—	—	48.	—	169.	202.	238.	—	—	93.	213.	—
	800	—	—	—	—	62.	—	169.	202.	238.	—	—	98.	240.	—
	1000	—	—	—	—	73.	—	169.	202.	238.	—	—	106.	270.	—
	1250	—	—	—	—	83.	—	169.	202.	238.	—	—	121.	312.	—
	1500	—	—	—	—	94.	—	169.	202.	238.	—	—	139.	357.	—

3 Pole 4 Wire—Full Neutral—277/480 Volts

Standard Plug-in or Feeder Duct	225	16.	—	—	22.	—	—	122.	144.	168.	—	194.	—	—	150.
	400	22.	—	—	30.	—	—	122.	144.	168.	88.	211.	—	—	150.
	600	30.	—	—	40.	—	—	122.	144.	168.	96.	240.	—	—	150.
	800	38.	—	—	53.	—	—	122.	144.	168.	118.	290.	—	—	150.
	1000	45.	—	—	62.	—	—	122.	144.	168.	136.	330.	—	—	150.
Low Impedance Feeder Duct <input type="checkbox"/> Note 6	600	33.	40.	39.	—	53.	—	170.	202.	250.	170.	365.	190.	454.	—
	800	40.	48.	46.	53.	66.	61.	170.	202.	250.	205.	390.	197.	469.	—
	1000	48.	78.	55.	65.	88.	75.	170.	202.	250.	230.	440.	207.	487.	—
	1350	64.	94.	74.	90.	128.	101.	170.	202.	250.	270.	530.	227.	520.	—
	1600	78.	118.	91.	105.	160.	121.	170.	202.	250.	290.	560.	241.	541.	—
	2000	95.	140.	110.	130.	190.	150.	170.	202.	250.	380.	610.	264.	580.	—
	2500	115.	186.	138.	161.	253.	190.	170.	202.	250.	480.	800.	269.	628.	—
	3000	138.	—	152.	196.	286.	225.	202.	236.	250.	580.	920.	319.	687.	—
3500	162.	—	166.	240.	320.	301.	202.	236.	250.	640.	960.	374.	740.	—	
4500	184.	—	276.	270.	—	338.	202.	236.	250.	950.	1000.	470.	783.	—	
5500	—	—	—	340.	—	376.	202.	236.	250.	950.	1000.	500.	909.	—	
Standard Outdoor Feeder* Duct for Service Entrance	400	—	—	—	—	52.	—	169.	202.	238.	—	—	81.	192.	—
	600	—	—	—	—	61.	—	169.	202.	238.	—	—	93.	213.	—
	800	—	—	—	—	72.	—	169.	202.	238.	—	—	98.	240.	—
	1000	—	—	—	—	83.	—	169.	202.	238.	—	—	106.	270.	—
	1250	—	—	—	—	91.	—	169.	202.	238.	—	—	121.	312.	—
	1500	—	—	—	—	105.	—	169.	202.	238.	—	—	139.	357.	—

The above items are subject to 48.5% Discount.

FPE PLUG-IN, FEEDER, AND LOW IMPEDANCE BUS DUCT

Type	Amperes	LIST PRICE COMPLETE							
		End Closer	Wall or Floor Flange	Fire Barrier	Weather-proof Barrier	NOTE 2 Cable Tap Box	NOTE 3 Switch-board Flange	NOTE 4 Roof Flange	NOTE 5 Weather-head with Lugs

3 Pole—600 Volts

Standard Plug-in or Feeder Duct	225	\$ 14.	\$ 42.	\$ 44.	\$100.	\$110.	\$ 90.	\$250.	\$ —
	400	14.	42.	44.	100.	126.	100.	250.	—
	600	14.	42.	44.	100.	154.	100.	250.	—
	800	14.	46.	44.	100.	162.	150.	250.	—
	1000	14.	46.	44.	100.	180.	150.	250.	—
Low Impedance Feeder Duct □	600	45.	70.	60.	100.	210.	250.	250.	231.
	800	45.	70.	60.	100.	210.	290.	250.	243.
	1000	45.	70.	60.	100.	220.	320.	250.	258.
	1350	45.	70.	60.	100.	240.	380.	250.	267.
	1600	45.	70.	60.	100.	250.	430.	250.	309.
	2000	45.	70.	60.	100.	270.	490.	250.	321.
	2500	45.	70.	100.	100.	290.	580.	250.	360.
	3000	45.	70.	100.	100.	310.	670.	250.	402.
	3500	45.	70.	100.	100.	320.	750.	250.	420.
	4500	90.	70.	100.	100.	350.	840.	250.	438.
5500	90.	70.	100.	100.	420.	1010.	250.	630.	
Standard Outdoor Feeder* Duct for Service Entrance	400	16.	42.	44.	100.	—	64.	—	132.
	600	16.	42.	44.	100.	—	71.	—	132.
	800	16.	46.	44.	100.	—	80.	—	178.
	1000	16.	46.	44.	100.	—	90.	—	178.
	1250	16.	70.	60.	100.	—	104.	—	314.
1500	16.	70.	60.	100.	—	119.	—	347.	

3 Pole 4 Wire—Half Neutral—277/480 Volts

Standard Plug-in or Feeder Duct	225	14.	42.	44.	100.	120.	94.	250.	—
	400	14.	42.	44.	100.	156.	110.	250.	—
	600	14.	42.	44.	100.	170.	110.	250.	—
	800	14.	46.	44.	100.	180.	160.	250.	—
	1000	14.	46.	44.	100.	200.	160.	250.	—
Low Impedance Feeder Duct □	600	45.	70.	60.	100.	210.	250.	250.	251.
	800	45.	70.	60.	100.	220.	290.	250.	263.
	1000	45.	70.	60.	100.	230.	320.	250.	278.
	1350	45.	70.	60.	100.	250.	380.	250.	287.
	1600	45.	70.	60.	100.	260.	430.	250.	329.
	2000	45.	70.	60.	100.	280.	490.	250.	341.
	2500	45.	70.	100.	100.	310.	580.	250.	380.
	3000	45.	70.	100.	100.	340.	670.	250.	420.
	3500	45.	70.	100.	100.	390.	750.	250.	440.
	4500	90.	70.	100.	100.	440.	840.	250.	458.
5500	90.	70.	100.	100.	500.	1010.	250.	650.	
Standard Outdoor Feeder* Duct for Service Entrance	400	16.	42.	44.	100.	—	81.	—	142.
	600	16.	42.	44.	100.	—	93.	—	142.
	800	16.	46.	44.	100.	—	98.	—	191.
	1000	16.	46.	44.	100.	—	106.	—	191.
	1250	16.	70.	60.	100.	—	121.	—	330.
1500	16.	70.	60.	100.	—	139.	—	363.	

3 Pole 4 Wire—Full Neutral—277/480 Volts

Standard Plug-in or Feeder Duct	225	14.	42.	44.	100.	130.	94.	250.	—
	400	14.	42.	44.	100.	160.	110.	250.	—
	600	14.	42.	44.	100.	186.	110.	250.	—
	800	14.	46.	44.	100.	200.	160.	250.	—
	1000	14.	46.	44.	100.	220.	160.	250.	—
Low Impedance Feeder Duct □	600	45.	70.	60.	100.	220.	250.	250.	271.
	800	45.	70.	60.	100.	230.	290.	250.	283.
	1000	45.	70.	60.	100.	240.	320.	250.	298.
	1350	45.	70.	60.	100.	260.	380.	250.	307.
	1600	45.	70.	60.	100.	280.	430.	250.	349.
	2000	45.	70.	60.	100.	300.	490.	250.	361.
	2500	45.	70.	100.	100.	330.	580.	250.	400.
	3000	45.	70.	100.	100.	360.	670.	250.	440.
	3500	45.	70.	100.	100.	420.	750.	250.	460.
	4500	90.	70.	100.	100.	480.	840.	250.	478.
5500	90.	70.	100.	100.	550.	1010.	250.	670.	
Standard Outdoor Feeder* Duct for Service Entrance	400	16.	42.	44.	100.	—	81.	—	162.
	600	16.	42.	44.	100.	—	93.	—	162.
	800	16.	46.	44.	100.	—	98.	—	218.
	1000	16.	46.	44.	100.	—	106.	—	218.
	1250	16.	70.	60.	100.	—	121.	—	363.
1500	16.	70.	60.	100.	—	139.	—	390.	

COPPER AND ALUMINUM BUS BARS

Footnotes

*Price covers weatherproof duct using one insulated bar per phase. For service entrance up to 30 feet in length.

□To price low impedance plug-in duct, add the following prices per plug-in opening to straight length prices.

Two bars per phase:	Add per opening
3 Wire.....	\$4.00
4 Wire.....	5.00
Four bars per phase:	
3 Wire.....	9.00
4 Wire.....	11.00

NOTE 1. Price covers complete device including weather-resistant barrier, 12" bus bar extensions, lugs, and one end closer.

NOTE 2. Price covers end cable tap box. For center cable tap box deduct cost of one end closer. Price includes sufficient lugs for rating of busway.

NOTE 3. Price includes flange, up to 12" bus bar extensions, and flange hardware. Extension hardware to be furnished with switchboard.

NOTE 4. Price includes complete device for making busway entrance through roof weather resistant.

NOTE 5. Price covers complete device including weatherproof barrier and lugs.

NOTE 6. Indoor price covers ventilated L.I. duct. For totally enclosed indoor L.I. duct price, use outdoor totally enclosed prices.

MODIFICATIONS

DESCRIPTION	List Price Addition
Special Bracing	\$ 3.00 per ft.

Makes plug-in duct suitable for installation on circuits capable of delivering up to 50,000 rms amperes short circuit current.
For low impedance bus duct. Refer to Factory

External Ground Bus	List Price Addition
1/4" x 7/8".....	2.50 per ft.
1/4" x 1".....	4.00 per ft.
1/4" x 2".....	8.90 per ft.

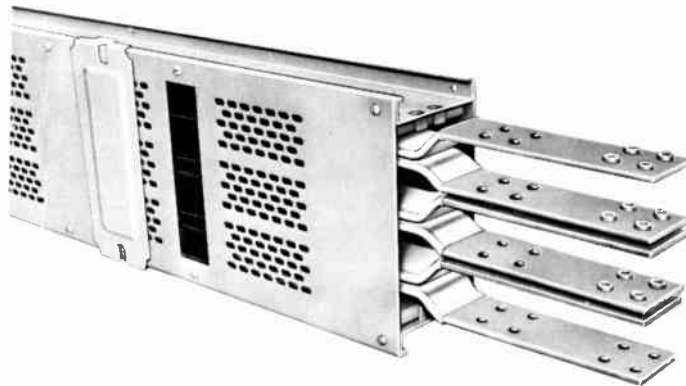
Extra Hangers	List Price Addition
Drop type or "C" type hangers...	2.50 each
Vertical hangers.....	15.00 each

Lugs (Extra)	List Price Addition
Cable range #2 to 4/0.....	2.50 per lug
1 0 to 350 mcm.....	4.50 per lug
1 0 to 600 mcm.....	8.50 per lug
250 to 500 mcm.....	8.50 per lug
600 to 1000 mcm.....	16.00 per lug

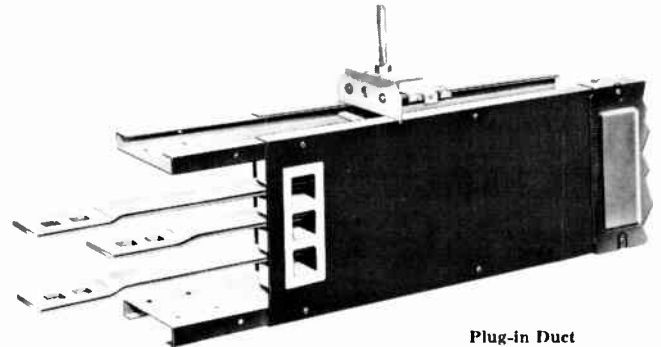
Miscellaneous	List Price Addition
Access covers, splice plates & hardware for one section joint (per set).....	5.00
Aluminum housing—add 30% to indoor bus duct	218.
Zip-on PVC boots (joint covers)...	4.00 per pole

The above items are subject to 48.5% Discount.

FPE PLUG-IN, FEEDER, AND LOW IMPEDANCE BUS DUCT AND FITTINGS



Plug-in Low Impedance Duct



Plug-in Duct

STANDARDS

Federal Pacific Bus Duct meets the following standards:

1. National Electrical Code—1965
2. NEMA Pub. No. BU1-1964
3. Underwriters' Laboratories, Inc. Pub. No. 857
4. Federal Specification W-B-811 dated June 23, 1962 as follows:

- | | |
|--|---|
| Type I Feeder, indoor | Type VI Trolley and plug-in, indoor (not available) |
| Type II Feeder, outdoor | Class 1—Copper conductors |
| Type III Plug-In, indoor | Class 2—Aluminum conductors |
| Type IV Plug-In Feeder, indoor | Style A—with ventilated enclosures |
| Type V Trolley, indoor (not available) | Style B—with unventilated enclosures |

PLUG-IN DUCT CURRENT TAKE OFF DEVICES

Ampere Rating	250 VOLTS, A.C. or D.C.			250 VOLTS, A.C.						600 VOLTS, A.C.						277 VOLTS, A.C.		
	2-Pole			3-Pole			3 Phase 4 Wire			2-Pole			3-Pole			3 Phase 4 Wire		
	H.P. A.C. D.C.	Catalog Number	List Price	H.P. A.C.	Catalog Number	List Price	H.P. A.C.	Catalog Number	List Price	H.P. A.C.	Catalog Number	List Price	H.P. A.C.	Catalog Number	List Price	H.P. A.C.	Catalog Number	List Price

Type A—Safety Switch Plug-in Devices—SP Series★—For Conventional Plug-in Bus Duct

30Δ	1½-5	SP1322	\$ 47.	3	SP1332	\$ 51.	—	—	—	3	SP1326	\$ 49.	7½	SP1336	\$ 52.	—	—	—
60Δ	3-10	SP1622	52.	7½	SP1632	59.	—	—	—	10	SP1626	56.	15	SP1636	62.	—	—	—
100Δ	7½-20	SP1122	78.	15	SP1132	86.	—	—	—	15	SP1126	82.	30	SP1136	89.	—	—	—
200Δ	15-40	SP1222	138.	25	SP1232	152.	—	—	—	30	SP1226	152.	50	SP1236	161.	—	—	—
400Δ	30-50	SP1422	286.	50	SP1432	315.	—	—	—	50	SP1426	302.	50	SP1436	330.	—	—	—
1600Δ	—	SP1722	373.	—	SP1732	411.	—	—	—	—	SP1726	394.	—	SP1736	430.	—	—	—

Type A—Safety Switch Plug-in Devices—LSP Series★—For Plug-in Type Low Impedance Bus Duct†

30▲	—	—	—	3	LSP1332	\$51.	3	LSP1332SN	\$ 61.	3	LSP1326	\$49.	7½	LSP1336	\$52.	5	LSP1336SN	\$ 62.
60▲	—	—	—	7½	LSP1632	59.	7½	LSP1632SN	68.	10	LSP1626	56.	15	LSP1636	62.	15	LSP1636SN	70.
100▲	—	—	—	15	LSP1132	86.	15	LSP1132SN	95.	15	LSP1126	82.	30	LSP1136	90.	25	LSP1136SN	100.
200▲	—	—	—	25	LSP1232	152.	25	LSP1232SN	171.	30	LSP1226	152.	50	LSP1236	161.	50	LSP1236SN	178.
400▲	—	—	—	50	LSP1432	315.	50	LSP1432SN	345.	50	LSP1426	303.	50	LSP1436	330.	50	LSP1436SN	338.
1600▲	—	—	—	—	LSP1732	411.	—	LSP1732SN	439.	—	LSP1726	394.	—	LSP1736	430.	—	LSP1736SN	458.

Cover Operated Fusible Plug-in Devices—CFP Series★—For Conventional Plug-in Bus Duct

30Δ	1½-5	CFP322	\$39.	3	CFP332	\$41.	—	—	—	3	CFP326	\$41.	7½	CFP336	\$43.	—	—	—
60Δ	3-10	CFP622	41.	7½	CFP632	45.	—	—	—	10	CFP626	43.	15	CFP636	47.	—	—	—
100Δ	7½-20	CFP122	54.	15	CFP132	58.	—	—	—	15	CFP126	56.	30	CFP136	65.	—	—	—
200Δ	15-40	CFP222	123.	25	CFP232	135.	—	—	—	30	CFP226	130.	50	CFP236	148.	—	—	—

• Two pole units are furnished with Plug-in stabs for the two outside bars in duct unless otherwise specified.
 ★Non-Fusible CFP and SP and LSP units available at 250-Volt prices. For current limiting fuse mounting, refer to factory.

†Not recommended for Plug-in service. These units bolt on to duct at splice between sections. When ordering, specify if front or rear mounted on duct and size of bars in duct on which units will be used.

NOTE: Fuses are not included.

Hook Stick— 8 ft.—\$35. List
 14 ft.—\$43. List

For Solid Neutral, add

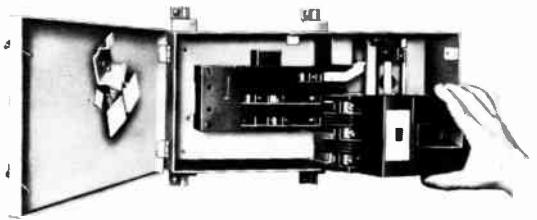
Amp.	Catalog No.	List Price
30-100Δ	NP100	\$11.
200Δ	NP200	17.
400▲	NP400	30.
600▲	NP600	34.

The above items are subject to 50% Discount.

FPE PLUG-IN DUCT CURRENT TAKE OFF DEVICES

STABreaker® Plug-ins—(STABreaker plus Plug-in Enclosure = Complete Price)

Breaker Frame	Rating Amperes	240 V., A.C.—125/250 V., D.C.				CONVENTIONAL PLUG-IN ENCLOSURES ONLY Δ	LOW IMPEDANCE PLUG-IN ENCLOSURES ONLY ▲		
		2-Pole		3-Pole					
		Cat. No.	List Price	Cat. No.	List Price				
NE-S	15	2215	\$34.00	2315	\$ 47.00	Conventional Plug-in Enclosure PBEF100 \$50.00	Low Impedance Plug-in Enclosure LPBEF100 \$50.00		
	20	2220	34.00	2320	47.00				
	30	2230	34.00	2330	47.00				
	40	2240	34.00	2340	47.00				
	50	2250	34.00	2350	47.00				
70	2270	52.00	2370	67.00					
100	2200	52.00	2300	67.00					
600 V., A.C.								Add \$11.00 for Neutral Stab Cat. No. NP100	Add \$11.00 for Neutral Stab Cat. No. LNP400
NF-S	15	4215	67.00	4315	84.00				
	20	4220	67.00	4320	84.00				
	30	4230	67.00	4330	84.00				
	40	4240	67.00	4340	84.00				
	50	4250	67.00	4350	84.00				
	70	4270	83.00	4370	101.00				
	100	4200	83.00	4300	101.00				



STABreaker Plug-in Type AB Circuit Breakers, with stabs, provide additional flexibility and simplify maintenance when used in bus duct plug-in units. Both NE and NF frame breakers in ratings from 15 through 100 amp can be "stabbed" into the same size bus duct plug-in enclosure—whether it is for conventional plug-in bus duct (enclosure Cat. No. PBEF100) or for plug-in type low impedance bus duct (enclosure Cat. No. LPBEF100).

Circuit Breaker Plug-ins*—TYPE FCB (Factory assembled)

Breaker Frame Size	Amperes Rating	CONVENTIONAL PLUG-IN UNITS				LOW IMPEDANCE PLUG-IN UNITS †			
		600 VOLTS, A.C.		277/480 VOLTS, A.C.		600 VOLTS, A.C.		277/480 VOLTS, A.C.	
		3-Pole		3-Phase, 4 Wire		3-Pole		3-Phase, 4 Wire	
		Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price	Catalog No.	List Price
NFJ	70	FCBFJ7036	\$ 320.	FCBFJ7036SN	\$ 341.	LFCBFJ7036	\$ 320.	LFCBFJ7036SN	\$ 341.
	100	FCBFJ10036	320.	FCBFJ10036SN	341.	LFCBFJ10036	320.	LFCBFJ10036SN	341.
	125	FCBFJ12536	320.	FCBFJ12536SN	341.	LFCBFJ12536	320.	LFCBFJ12536SN	341.
	150	FCBFJ15036	320.	FCBFJ15036SN	341.	LFCBFJ15036	320.	LFCBFJ15036SN	341.
	175	FCBFJ17536	320.	FCBFJ17536SN	341.	LFCBFJ17536	320.	LFCBFJ17536SN	341.
	200	FCBFJ20036	320.	FCBFJ20036SN	341.	LFCBFJ20036	320.	LFCBFJ20036SN	341.
	225	FCBFJ22536	320.	FCBFJ22536SN	341.	LFCBFJ22536	320.	LFCBFJ22536SN	341.
NJL	250	FCBJL25036	664.	FCBJL25036SN	705.	LFCBJL25036	664.	LFCBJL25036SN	705.
	300	FCBJL30036	664.	FCBJL30036SN	705.	LFCBJL30036	664.	LFCBJL30036SN	705.
	350	FCBJL35036	664.	FCBJL35036SN	705.	LFCBJL35036	664.	LFCBJL35036SN	705.
	400	FCBJL40036	664.	FCBJL40036SN	705.	LFCBJL40036	664.	LFCBJL40036SN	705.
NM	125	FCBM12536	975.	FCBM12536SN	1026.	LFCBM12536	975.	LFCBM12536SN	1026.
	150	FCBM15036	975.	FCBM15036SN	1026.	LFCBM15036	975.	LFCBM15036SN	1026.
	175	FCBM17536	975.	FCBM17536SN	1026.	LFCBM17536	975.	LFCBM17536SN	1026.
	200	FCBM20036	975.	FCBM20036SN	1026.	LFCBM20036	975.	LFCBM20036SN	1026.
	225	FCBM22536	975.	FCBM22536SN	1026.	LFCBM22536	975.	LFCBM22536SN	1026.
	250	FCBM25036	975.	FCBM25036SN	1026.	LFCBM25036	975.	LFCBM25036SN	1026.
	300	FCBM30036	975.	FCBM30036SN	1026.	LFCBM30036	975.	LFCBM30036SN	1026.
	350	FCBM35036	975.	FCBM35036SN	1026.	LFCBM35036	975.	LFCBM35036SN	1026.
	400	FCBM40036	975.	FCBM40036SN	1026.	LFCBM40036	975.	LFCBM40036SN	1026.
	450	FCBM45036	975.	FCBM45036SN	1026.	LFCBM45036	975.	LFCBM45036SN	1026.
500	FCBM50036	975.	FCBM50036SN	1026.	LFCBM50036	975.	LFCBM50036SN	1026.	
550	FCBM55036	975.	FCBM55036SN	1026.	LFCBM55036	975.	LFCBM55036SN	1026.	
600	FCBM60036	975.	FCBM60036SN	1026.	LFCBM60036	975.	LFCBM60036SN	1026.	
700	FCBM70036	1185.	FCBM70036SN	1236.	LFCBM70036	1185.	LFCBM70036SN	1236.	
800	FCBM80036	1185.	FCBM80036SN	1236.	LFCBM80036	1185.	LFCBM80036SN	1236.	

Units 450 ampere and over are bolt-on units.

High Line Circuit Breaker Plug-ins for conventional type and low impedance † type Plug-in Bus Duct*

Breaker Frame Size and Interrupting Rating, Amperes RMS	Amperes Rating	600 VOLTS, A.C.		277/480 VOLTS, A.C.		Breaker Frame Size and Interrupting Rating, Amperes RMS	Amperes Rating	600 VOLTS, A.C.		277/480 VOLTS, A.C.	
		3 Pole		3 Phase 4 Wire				3 Pole		3 Phase 4 Wire	
		*Catalog Number	List Price	*Catalog Number	List Price			*Catalog Number	List Price	*Catalog Number	List Price
HF 75M @ 240V., a-c 30M @ 480V., a-c 20M @ 600V., a-c	15	PHF631015	\$167.	PHF631015SN	\$177.	HM 75M @ 240V., a-c 40M @ 480V., a-c 30M @ 600V., a-c	125	PHM631125	\$959.	PHM631125SN	\$990.
	20	PHF631020	167.	PHF631020SN	177.		150	PHM631150	959.	PHM631150SN	990.
	30	PHF631030	167.	PHF631030SN	177.		175	PHM631175	959.	PHM631175SN	990.
	40	PHF631040	167.	PHF631040SN	177.		200	PHM631200	959.	PHM631200SN	990.
	50	PHF631050	167.	PHF631050SN	177.		225	PHM631225	959.	PHM631225SN	990.
	70	PHF631070	182.	PHF631070SN	192.		250	PHM631250	959.	PHM631250SN	990.
100	PHF631100	182.	PHF631100SN	192.	300		PHM631300	959.	PHM631300SN	990.	
HFJ 75M @ 240V., a-c 30M @ 480V., a-c 20M @ 600V., a-c	70	PHFJ631070	600.	PHFJ631070SN	620.		350	PHM631350	959.	PHM631350SN	990.
	100	PHFJ631100	600.	PHFJ631100SN	620.		400	PHM631400	959.	PHM631400SN	990.
	125	PHFJ631125	600.	PHFJ631125SN	620.		500	PHM631500	1138.	PHM631500SN	1190.
	150	PHFJ631150	600.	PHFJ631150SN	620.		600	PHM631600	1138.	PHM631600SN	1190.
	175	PHFJ631175	600.	PHFJ631175SN	620.		700	PHM631700	1348.	PHM631700SN	1395.
	200	PHFJ631200	600.	PHFJ631200SN	620.	800	PHM631800	1348.	PHM631800SN	1395.	
	225	PHFJ631225	600.	PHFJ631225SN	620.						

*Add prefix "L" to above catalog numbers for plug-in type Low Impedance Bus Duct.

Units 450 ampere and over are bolt-on units.

†Specify size of duct on which plug-in device will be used.

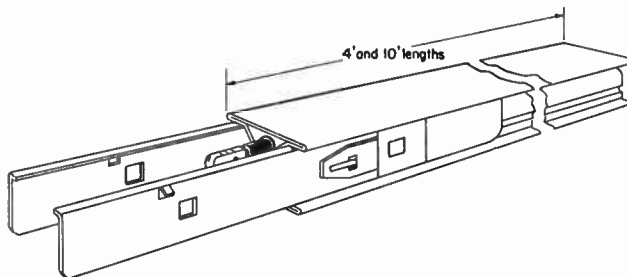
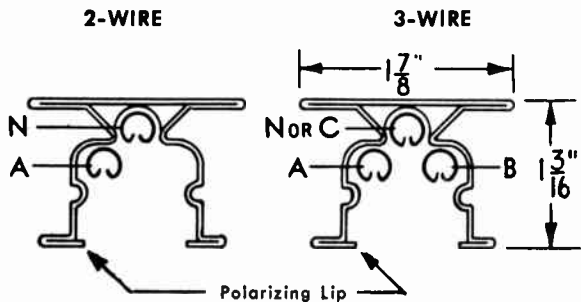
Δ Identifies equipment made in Newark; ▲ equipment built in Long Island City.

The above items are subject to 50% Discount.

GENERAL ELECTRIC BUSWAY

Plug-in, Type LW 30 and 60 Amperes 2- and 3-Wire

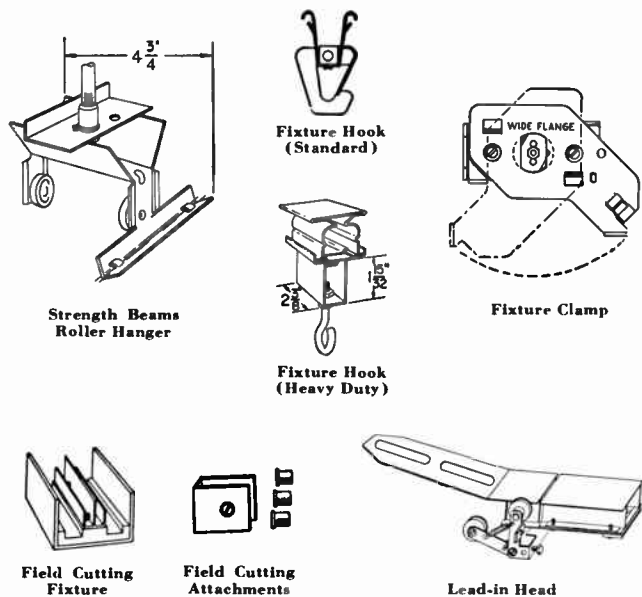
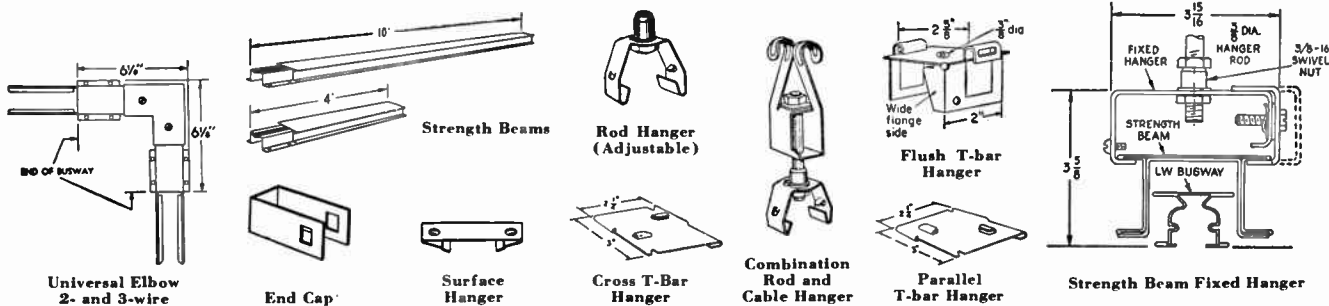
STRAIGHT LENGTHS WITH COUPLINGS AND CONNECTORS (Order Hangers Separately)



Length	TWO-WIRE						THREE-WIRE				
	Catalog Number			List Price Each	Std Pkg	Pkg Wt Lbs	Catalog Number		List Price Each	Std Pkg	Pkg Wt Lbs
	30 A-250 V	60 A-250 V	60 A-300 V				60 A-250 V	60 A-480Y/277 V*			
10-foot	LW223	LW226	.....	\$12.00	6	55	LW326	LW336	\$22.50	6	65
	.....	.....	LW236	15.00	6	60	.....	.....	29.00	6	65
	.....	.....	.....	19.00	6	60	.....	.....	.....	.....	.....
4-foot	LW2234	LW2264	.....	6.70	6	20	LW3264	LW3364	12.50	6	28
	.....	.....	LW2364	7.50	6	25	.....	.....	15.00	6	28
	.....	.....	.....	10.50	6	25	.....	.....	.....	.....	.....

* 300 volts maximum to ground or neutral.

ELBOWS, FITTINGS AND ATTACHMENTS (Allow 2 hangers for every 10 feet of LW Busway)



Description	Cat. No.	List Each	Std Pkg	Pkg Wt Lbs
Universal Elbow--30A, 2- and 3-pole ..	LW3L ①	\$5.50	6	10
Universal Elbow--60A, 2- and 3-pole ..	LW6L ①	10.50	6	10
End Cap	LWEC	1.25	80	7
Strength Beams:				
Standard 10-foot	LWSB	8.20	6	96
Standard 4-foot	LWSB4	4.10	6	54
Hangers:				
Surface	LWSH	.25	320	15
Rod (Adjustable)	LWRH	.80	160	13
Comb. Rod & Cable	LWCH	1.00	100	50
T-bar Flush	LWTFH	1.00	25	4
T-bar Parallel	LWTPH	1.00	25	4
T-bar Cross	LWTCB	1.00	25	4
Strength Beam, fixed	LWSBF	1.00	25	13
Strength Beam, roller	LWSBR	2.60	30	15
Fixture Supports:				
Standard hook for fluorescent fixtures parallel to LW	LWFH	.50	160	10
Heavy duty hook, single pendant fixture, turn-resistant	LWFHH	1.00	96	20
Clamps for direct attachment of fluorescent fixtures parallel to LW	LWFCH	1.50	72	24
Conventional applications	LWFC	1.50	72	12
LW flush in T-bar ceilings	LWFCF	10.50	16	4
Field cutting fixture	LWFCF	10.50	16	4
Field cutting attachment set	LWFCAS	3.00	36	9
Lead-in head for roll-in system	LWLH	52.00	1	3
Slot closure, rigid vinyl, package of ten 8-foot lengths	LWSK	21.00	1	5

① Includes electrical connectors.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC BUSWAY

Plug-in, Type LW 30 and 60 Amperes 2- and 3-Wire

FEED-IN BOXES

(Includes couplings and electrical connectors)

Description	TWO-WIRE				THREE-WIRE			
	Cat. No.	List Price Each	Std Pkg	Pkg Wt Lbs	Cat. No.	List Price Each	Std Pkg	Pkg Wt Lbs

END FEED (All end feed boxes can be attached to either end of LW busway runs)

Overlunge ①— 30A-300V 60A-300V 60A-480Y/277V ②	LW23TEA LW26TEA	\$7.20 8.80	1 1	4 4	LW36TEA LW36TEA	\$10.50 10.50	1 1	4 4
Underslung— 30A-300V 60A-300V 60A-480Y/277V ②	LW23EB LW26EB	7.20 8.80	1 1	4 4	LW36EB LW36EB	10.50 10.50	1 1	4 4
Miniature— 30A-300V	LW23EM	3.60	32	20				

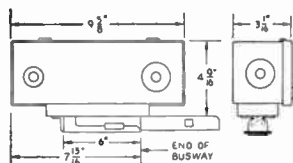
CENTER FEED

Overlunge ①— 30A-300V 60A-300V 60A-480Y/277V ②	LW23TCA LW26TCA	\$10.50 13.00	1 1	4 6	LW36TCA LW36TCA	\$14.50 14.50	1 1	6 6
Underslung— 30A-300V 60A-300V 60A-480Y/277V ②	LW23CB LW26CB	10.50 13.00	1 1	4 6	LW36CB LW36CB	14.50 14.50	1 1	6 6

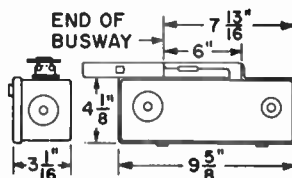
① 300 volt maximum to ground or neutral.

② Suitable for use in flush installations in T-bar hung ceilings.

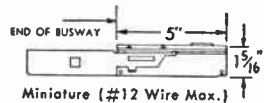
END FEED



Overlunge

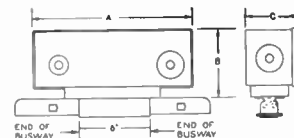


Underslung



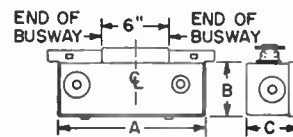
Miniature (#12 Wire Max.)

CENTER FEED



	30A	60A
A	9 5/8"	11 11/16"
B	4 9/16"	4 13/16"
C	3 1/16"	3 13/16"

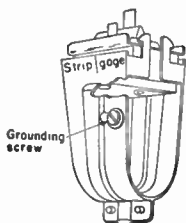
Overlunge



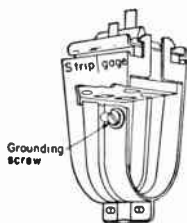
	30A	60A
A	9 5/8"	11 11/16"
B	4 1/16"	4 3/16"
C	3 1/16"	3 13/16"

Underslung

PLUGS AND RECEPTACLES

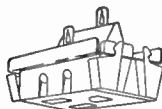


Terminal plug

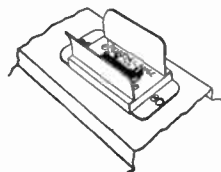


Terminal and receptacle plug

Cable clamp included



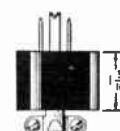
Receptacle plug
Cable clamp not included



Fixture plug
with adapter



Fusible convenience plug
Uses two 1 1/4 x 1 1/4 No. 3AG glass fuses
—no fuses included



Fusible convenience plug
with grounding pin
Uses one Busman "ABC" or equivalent

Description	No. Poles	Rating	Bus Bar Contact	Cat. No.	List Price Each	Std Pkg	Pkg Wt Lbs
Terminal Plug only	2	20A-300V	A-N ①	LWTPA	\$3.10	20	6
	2		B-N ①	LWTPB	3.10	20	6
	3		A-B-N	LW3TP	8.10	20	6
Receptacle only	2	15A-125V	A-N ①	LWRPA	2.60	40	8
	2		B-N ①	LWRPB	2.60	40	8
Terminal and Receptacle	2	15A-125V (Receptacle applications) 20A-300V (Terminal applications)	A-N ①	LWTRPA	4.10	20	6
	2		B-N ①	LWTRPB	4.10	20	6
Fixture Plug with Adapter	2	20A, 300V	AN	LWFPA	2.80	40	8
	2		BN	LWFPA	2.80	40	8
	3		A-B-N ②	LW3FP	7.70	40	8
Fixture Plug with Adapter For "T" bar ceiling installations only	2	20A, 300V	AN	LWFPA	2.80	40	8
	2		BN	LWFPA	2.80	40	8
	3		ABN ②	LW3FPT	7.70	40	8
Fusible Convenience Plug, 2-prong	2	15A-125V a-c (Not polarized)		DFP21	.80	20	2
Fusible Convenience Plug with Grounding Pin	2	15A-125V a-c (Polarized)		DFP21G	5.70	20	2

① Polarity can be reversed in the field.

② This plug is designed and polarized for 3-wire applications using the "B" conductor of the busway as a continuous ground. Polarity must not be reversed in the field.

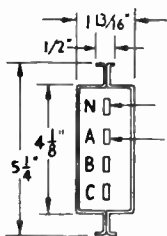
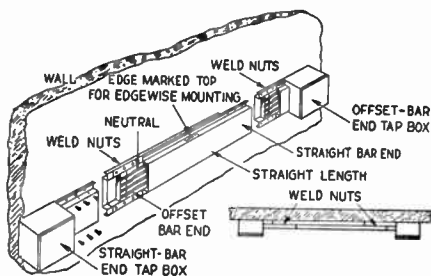
The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC BUSWAY

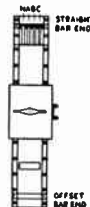
Flex-A-Power® Plug-in and Feeder, Type DH 100 Amperes, 600 Volts or Less
STRAIGHT LENGTHS AND FITTINGS (Order hangers separately)

Busway U/L-listed for hanging on 10-foot centers in edgewise or vertical riser position.
BUSWAY WALL INSTALLATION **CROSS SECTION FOR ALL SYSTEMS**

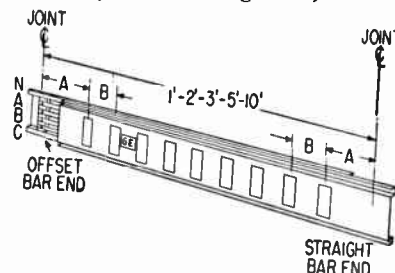
STRAIGHT LENGTHS
 Standard Package—2
 (One-foot length—4)



OMITTED ON
3-phase, 3-wire
OMITTED ON
Single-phase,
3-wire



Mounting
Position,
Vertical Riser

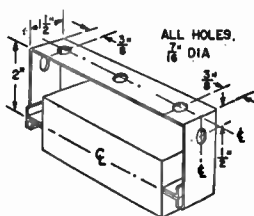


Length (Ft)	1-Phase, 3-wire and 3-wire D-c		3-Phase, 3-wire		3-Phase, 4-wire		Pkg Wt (Lb)	Dimensions (In.)		Plug Out- lets (1)
	Cat. No.	List Price Each	Cat. No.	List Price Each	Cat. No.	List Price Each		A	B	
10	DH1A31N	\$33	DH1A31	\$33	DH1A41	\$45	52	7	13 1/4	9
5	DH1A315N	23	DH1A315	23	DH1A415	29	27	7	11 1/2	5
3	DH1A413	23	DH1A413	23	DH1A413	23	17	7	11	3
2	DH1A412	18	DH1A412	18	DH1A412	18	12	7	10	2
1	DH1A411	13	DH1A411	13	DH1A411	13	12	6	...	1

① Number per side. Plugs cannot be mounted back-to-back.

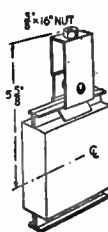
HANGERS

UNIVERSAL HANGER
 Standard Package—100
 Package weight—54 lb.



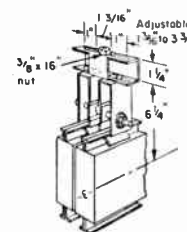
Catalog number—
DH1HU1
List Price Each,
\$1.00

EDGEWISE HANGER (single run)
 Standard Package—100
 Package weight—25 lb.



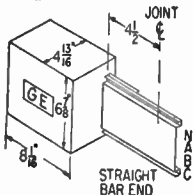
Catalog number—
DE1HES
List Price Each,
\$1.00

EDGEWISE HANGER (double run)
 Standard Package—10
 Package weight—10 lb.



Catalog number—
DE1HED
List Price Each,
\$3.00

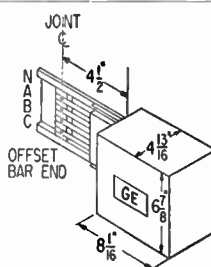
TAP BOXES (Standard package—1)
STRAIGHT BAR END
 Package weight—7 lb.



1 1/4" x 2" K.O. on both sides and end. Lugs for #14-1/0 Copper wire.

No. Wires	Phase	Cat. No.	List Price Each
3	1 or d-c	DH1BBC31N	\$23
3		DH1BBC31	23
4	3	DH1BBC41	31

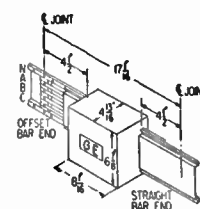
OFFSET BAR END
 Pkg. weight
 —7 lb.



1 1/4" x 2" K.O. on both sides and end. Lugs for #14-1/0 Copper wire.

No. Wires	Phase	Cat. No.	List Price Each
3	1 or d-c	DH1BBS31N	\$23
3		DH1BBS31	23
4	3	DH1BBS41	31

CENTER
 Package weight—9 lb.

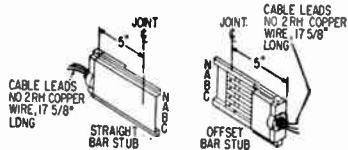


1 1/4" x 2" K.O. on both sides. Contains two sets of lugs. Can be used for center feeding or center sectionalizing. Lugs for #14-1/0 Copper wire.

No. Wires	Phase	Cat. No.	List Price Each
3	1 or d-c	DH1BBJ31N	\$29
3		DH1BBJ31	29
4	3	DH1BBJ41	39

END FITTINGS

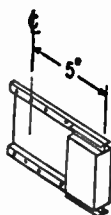
END STUB Standard Package—1
 Package weight—5 lb.



Description	Cat. No. Offset Bar End	Cat. No. Straight Bar End	List Price Each
1-PH, 3-W, d-c	DH1ACS31N	DH1ACC31N	\$23
3-PH, 3-W	DH1ACS31	DH1ACC31	23
3-PH, 4-W	DH1ACS41	DH1ACC41	31

END BOX

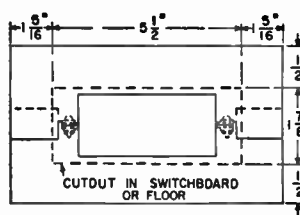
(Suitable for use either end)
 Standard Package—10
 Package weight—14 lb.



Catalog number—DH1E1
 List Price Each, \$5.00

FLANGE

Standard Package—10
 Package weight—14 lb.



Catalog number—DH1F
 List Price Each, \$5.00

OUTLET COVER

Standard Package—40
 Package weight—5 lb.

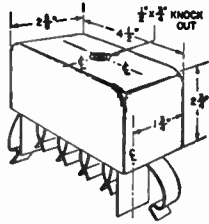


Catalog number—DH10C
 List Price Each, \$1.00

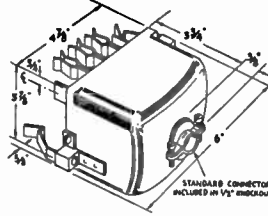
The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC BUSWAY

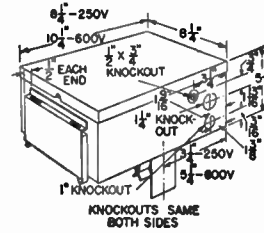
Flex-A-Power® Unfused, Fusible, and Circuit Breaker Plugs for Type DH Busway
UNFUSED AND FUSIBLE NON-OPERATING TYPES (No fuses included)



Type TB unfused



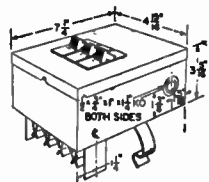
Type PBA fusible non-operating compact



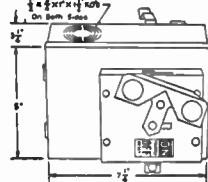
Type PB fusible non-operating

Amp Rating	Type	Voltage		Single-phase, 3-wire, or 3-wire, D-c				Three-phase, 3-wire				Three-phase, 4-wire			
		A-c	D-c	Cat. No.	List Each	Std Pkg	Pkg Wt	Cat. No.	List Each	Std Pkg	Pkg Wt	Cat. No.	List Each	Std Pkg	Pkg Wt
60	TB	600	600	DHIP4TB2	\$15.00	12	13	DHIP3TB2	\$11.00	12	13	DHIP4TB2	\$15.00	12	14
30	PBA	240	...	DFPBA321N	18.00	10	21	DFPBA321	18.00	10	20	DFPBA421	21.00	10	25
30	PB	600	...	...	...	...	...	DFPB361	33.00	1	11	DFPB461	35.00	1	12
60	PB	240	...	DFPB322N	30.00	1	11	DFPB322	30.00	1	11	DFPB422	32.00	1	11
60	PB	600	...	...	...	...	...	DFPB362	34.00	1	12	DFPB462	36.00	1	12

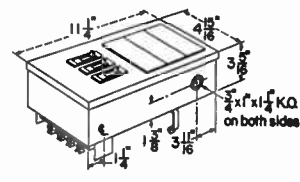
TYPES TQL, TQLX, TQLR (Circuit breakers not included)



Type TQL plug, includes space for 3 TQL breaker poles



Type TQLX plug, includes space for 3 TQL breaker poles, externally operated



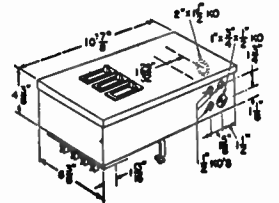
Type TQLR plug, includes space for 3 TQL breaker poles and receptacles

Amp	Type Plug	No. of Breakers	Breaker Voltage		Single-phase, 3-wire				Three-phase, 3-wire				Three-phase, 4-wire			
			A-c	D-c	Cat. No.	List Each	Std Pkg	Pkg Wt	Cat. No.	List Each	Std Pkg	Pkg Wt	Cat. No.	List Each	Std Pkg	Pkg Wt
15-50	TQL	Order Separately	240	...	DFPTQL3N	\$9.00	12	43	DFPTQL3	\$9.00	12	44	DFPTQL4	\$11.00	12	44
15-50	TQLX		240	...	DFPTQLX3N	15.00	12	43	DFPTQLX3	15.00	12	44	DFPTQLX4	17.00	12	44
15-50	TQLR		240	...	DFPTQLR4	21.00	1	5 1/2	DFPTQLR3	18.00	1	5 1/2	DFPTQLR4	21.00	1	6

TYPES DHPEA3, DHPEA4, DHPEB4

(Complete with Type "TE" frame circuit breakers, rigidly mounted) Standard Package—1

Circuit Breaker				3-wire Single-phase or DC			3-phase, 3-wire			3-phase, 4-wire			
Trip Range in Amps	Qty	Poles	Volts		Type	List Each	Pkg. Wt.	Type	List Each	Pkg. Wt.	Type	List Each	Pkg. Wt.
			AC	DC									
15-50	1	1	120	125	DHPEB4	\$42.50	8	...	...	...	DHPEB4	\$49.50	8
	2	1	120	125	DHPEB4	54.00	10	...	...	...	DHPEB4	61.00	10
	3	1	120	125	...	...	...	...	...	...	DHPEB4	72.00	12
	1	2	240	125/250	DHPEB4	60.00	9	DHPEA3	\$60.00	9	DHPEB4	67.00	9
	1	3	240	...	...	...	...	DHPEA3	73.00	10	DHPEB4	80.00	10
70	1	1	120	125	DHPEB4	54.00	8	...	...	...	DHPEB4	61.00	8
	2	1	120	125	DHPEB4	77.00	10	...	...	...	DHPEB4	84.00	10
	3	1	120	125	...	...	...	...	...	...	DHPEB4	107.00	12
	1	2	240	125/250	DHPEB4	78.00	9	DHPEA3	78.00	9	DHPEB4	85.00	9
	1	3	240	...	...	...	...	DHPEA3	93.00	10	DHPEB4	100.00	10
15-20	1	1	277	...	DHPEA4	45.50	8	...	...	...	DHPEA4	52.50	8
	2	1	277	...	DHPEA4	60.50	10	...	...	...	DHPEA4	67.50	10
	3	1	277	...	...	...	...	...	...	...	DHPEA4	82.00	12



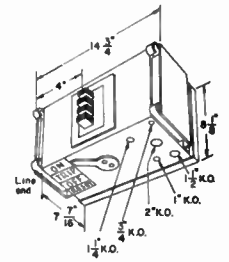
① Includes space and mounting brackets for 1-, 2- or 3-conventional single-gang outlets and blank cover to fill unused spaces.

② Order by description—specify (Type) (service) (circuit breakers—quantity, amperes, poles and volts).

③ Orders of 50 or more can be furnished with desired type of receptacles installed and wired. Refer to Graybar.

TYPES TE, TEF4 and TEF6 (Circuit breaker included, rigidly mounted) (Noninterchangeable trip)

Amp	Frame	Single-phase, 3-wire				Three-phase, 3-wire				Three-phase, 4-wire			
		Catalog Number	List Each	Std Pkg	Pkg Wt	Catalog Number	List Each	Std Pkg	Pkg Wt	Catalog Number	List Each	Std Pkg	Pkg Wt
With Conventional Circuit Breakers													
15	TE-frame 240-V a-c	DFPEA41DH	\$104	1	27	DFPEA31DH	\$94	1	27	DFPEA41DH	\$104	1	27
20		DFPEA42DH	104	1	27	DFPEA32DH	94	1	27	DFPEA42DH	104	1	27
30		DFPEA43DH	104	1	27	DFPEA33DH	94	1	27	DFPEA43DH	104	1	27
40		DFPEA44DH	104	1	27	DFPEA34DH	94	1	27	DFPEA44DH	104	1	27
50		DFPEA45DH	104	1	27	DFPEA35DH	94	1	27	DFPEA45DH	104	1	27
70		DFPEA47DH	124	1	27	DFPEA37DH	113	1	27	DFPEA47DH	124	1	27
90		DFPEA49DH	124	1	27	DFPEA39DH	113	1	27	DFPEA49DH	124	1	27
100	DFPEA410DH	124	1	27	DFPEA310DH	113	1	27	DFPEA410DH	124	1	27	
15	TEF4-frame 480-V a-c	DFPEFA41DH	129	1	27	DFPEFA31DH	118	1	27	DFPEFA41DH	129	1	27
20		DFPEFA42DH	129	1	27	DFPEFA32DH	118	1	27	DFPEFA42DH	129	1	27
30		DFPEFA43DH	129	1	27	DFPEFA33DH	118	1	27	DFPEFA43DH	129	1	27
40		DFPEFA44DH	129	1	27	DFPEFA34DH	118	1	27	DFPEFA44DH	129	1	27
50		DFPEFA45DH	129	1	27	DFPEFA35DH	118	1	27	DFPEFA45DH	129	1	27
70		DFPEFA47DH	143	1	27	DFPEFA37DH	133	1	27	DFPEFA47DH	143	1	27
90		DFPEFA49DH	143	1	27	DFPEFA39DH	133	1	27	DFPEFA49DH	143	1	27
100	DFPEFA410DH	143	1	27	DFPEFA310DH	133	1	27	DFPEFA410DH	143	1	27	
15	TEF6-frame 600-V a-c	DH41EF6	141	1	32	DH31EF6	131	1	32	DH41EF6	141	1	32
20		DH42EF6	141	1	32	DH32EF6	131	1	32	DH42EF6	141	1	32
30		DH43EF6	141	1	32	DH33EF6	131	1	32	DH43EF6	141	1	32
40		DH44EF6	141	1	32	DH34EF6	131	1	32	DH44EF6	141	1	32
50		DH45EF6	141	1	32	DH35EF6	131	1	32	DH45EF6	141	1	32
70		DH47EF6	158	1	32	DH37EF6	147	1	32	DH47EF6	158	1	32
90		DH49EF6	158	1	32	DH39EF6	147	1	32	DH49EF6	158	1	32
100		DH410EF6	158	1	32	DH310EF6	147	1	32	DH410EF6	158	1	32



KO's same on both sides except locations reversed top-to-bottom on other side.

These plugs furnished with front operation as standard. Easily converted to side operation in the field.

④ Plugs listed are 3-phase, 4-wire design. The A-phase is ignored.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC ARMOR-CLAD* FEEDER AND PLUG-IN BUSWAY WITH ALUMINUM BUS BARS

Component	See Explanatory Note §	Unit	List Prices												
			Rating in Amperes												
			225	400	600	800	1000	1200	1350	1600	2000	2500	3000	4000	
SINGLE OR 3-PHASE, 3-WIRE, A-C OR 3-WIRE, D-C															
Straight Footage	Plug-in, indoor	1, 2	per ft	\$13	\$17	\$23	\$30	\$38	\$46	\$51	\$61	\$76	\$95	...	...
	Feeder, indoor and weatherproof	1, 3	per ft	...	...	21	28	35	42	47	56	70	88	\$105	\$140
Turning Fittings	Elbow	4	each	130	130	130	130	130	130	130	160	160	160	190	190
	Tee	4	each	150	150	150	150	150	150	150	190	190	190	230	230
	Cross	4	each	170	170	170	170	170	170	170	230	230	230	260	260
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	200	210	220	230	240	250	270	290	320	350	400
	Center cable tap box	7	each	160	160	170	180	190	200	210	220	240	270	290	340
	Switchboard stub	8	each	200	210	230	260	290	320	340	370	430	500	570	710
Accessories	Flange end	9	each	70	70	80	90	100	110	120	130	150	180	200	250
	Transformer throat connection	10	each	580	610	650	700	750	790	830	890	990	1120	1240	1480
	Transformer (1—(3 ϕ -Y or Δ) or (1 ϕ -3 w))	11, 12	each	140	140	150	160	170	180	190	200	220	250	270	320
	Taps (3—(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860
Accessories	Internal ground bus	14	per ft	3	3	4	4	4	5	6	7	8	12	13	15
	Expansion section	15	each	200	220	240	270	300	330	350	390	450	530	600	750
	Unfused reducer	16	each	130	150	170	200	230	260	280	320	380	460	530	680
	Wall or floor flange	17	each	30	30	30	30	30	30	30	50	50	50	70	70
Accessories	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3

3-PHASE, 4-WIRE, A-C, HALF-CAPACITY NEUTRAL

Component	See Explanatory Note §	Unit	List Prices												
			Rating in Amperes												
			225	400	600	800	1000	1200	1350	1600	2000	2500	3000	4000	
3-PHASE, 4-WIRE, A-C, HALF-CAPACITY NEUTRAL															
Straight Footage	Plug-in, indoor	1, 2	per ft	\$17	\$23	\$31	\$42	\$52	\$62	\$70	\$83	\$104	\$130	...	...
	Feeder, indoor and weatherproof	1, 3	per ft	...	...	25	34	42	50	57	67	84	105	\$126	\$168
Turning Fittings	Elbow	4	each	150	150	150	150	150	150	150	200	200	230	230	
	Tee	4	each	170	170	170	170	170	170	170	230	230	260	260	
	Cross	4	each	190	190	190	190	190	190	190	260	260	290	290	
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	210	220	230	240	250	260	290	310	340	380	440
	Center cable tap box	7	each	160	170	180	190	200	210	220	240	260	290	320	380
	Switchboard stub	8	each	210	230	250	290	320	350	380	420	490	570	650	820
Accessories	Flange end	9	each	70	80	90	100	110	120	130	150	170	200	230	290
	Transformer throat connection	10	each	600	630	680	740	790	850	900	970	1090	1240	1380	1680
	Transformer (1—(3 ϕ -Y or Δ))	11, 12	each	140	150	160	170	180	190	200	220	240	270	300	360
	Taps (3—(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860
Accessories	Internal ground bus	14	per ft	3	3	4	4	4	5	6	7	8	12	13	15
	Expansion section	15	each	210	230	260	290	330	370	390	440	510	600	690	870
	Unfused reducer	16	each	140	160	190	220	260	300	320	370	440	530	620	800
	Wall or floor flange	17	each	30	30	30	30	30	30	30	50	50	50	70	70
Accessories	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3

3-PHASE, 4-WIRE, A-C, FULL-CAPACITY NEUTRAL

Component	See Explanatory Note §	Unit	List Prices												
			Rating in Amperes												
			225	400	600	800	1000	1200	1350	1600	2000	2500	3000	4000	
3-PHASE, 4-WIRE, A-C, FULL-CAPACITY NEUTRAL															
Straight Footage	Plug-in, indoor	1, 2	per ft	\$17	\$23	\$31	\$42	\$52	\$62	\$70	\$83	\$104	\$130	...	...
	Feeder, indoor and weatherproof	1, 3	per ft	...	...	29	39	49	59	66	78	98	123	\$147	\$196
Turning Fittings	Elbow	4	each	150	150	150	150	150	150	150	200	200	230	230	
	Tee	4	each	170	170	170	170	170	170	170	230	230	260	260	
	Cross	4	each	190	190	190	190	190	190	190	260	260	290	290	
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	210	220	240	250	260	280	300	330	370	410	480
	Center cable tap box	7	each	160	170	180	200	210	220	240	250	280	320	350	420
	Switchboard stub	8	each	210	240	270	310	350	390	410	460	540	640	740	930
Accessories	Flange end	9	each	70	80	90	110	120	130	150	160	190	230	260	330
	Transformer throat connection	10	each	610	650	700	770	840	910	960	1050	1190	1360	1530	1870
	Transformer (1—(3 ϕ -Y or Δ))	11, 12	each	140	150	160	180	190	200	220	230	260	300	330	400
	Taps (3—(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860
Accessories	Internal ground bus	14	per ft	3	3	4	4	4	5	6	7	8	12	13	15
	Expansion section	15	each	220	250	280	320	360	400	440	490	570	680	780	990
	Unfused reducer	16	each	150	180	210	250	290	330	370	420	500	610	710	920
	Wall or floor flange	17	each	30	30	30	30	30	30	30	50	50	50	70	70
Accessories	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3

§ Numbers refer to notes found on a following page under "HOW TO PRICE BUSWAY."

* Trade-mark of General Electric Company.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC ARMOR-CLAD* FEEDER AND PLUG-IN BUSWAY

POWER TAKE-OFFS ① WITH ALUMINUM BUS BARS—PANELBOARD CONNECTION: Add appropriately rated cable tap-off price to busway and add the same amount to the price of the panelboard

Device				List Price Each												
Type Disconnect	Frame		Rating in Amperes	600-1350-amp Busway Range				1600-2500-amp Busway Range				3000-4000-amp Busway Range				
	Construction	Type		3-pole		3-ph, 4-wire		3-pole		3-ph, 4-wire		3-pole		3-ph, 4-wire		
				240-v	600-v	208Y/120-v	480Y/277-v	240-v	600-v	208Y/120-v	480Y/277-v	240-v	600-v	208Y/120-v	480Y/277-v	
Fusible Switches	.....	QMR (No fuses included)	100	\$202	\$205	\$242	\$250	\$272	\$275	\$302	\$310	\$282	\$285	\$312	\$320
			200	270	278	320	328	340	348	380	388	350	358	390	398	
			400	507	507	567	567	577	577	627	627	587	587	637	637	
			600	700	700	772	772	730	730	802	802	740	740	812	812	
			800	1100	1100	1190	1190	1130	1130	1220	1220	1140	1140	1230	1230	
			1200	.....	.....	.....	.....	1160	1160	1250	1250	1170	1170	1260	1260
Cable Tap-offs	Lugs only		400	\$160		\$170		\$180		\$190		\$190		\$200		
			600	170		180		190		200		200		210		
			1000	190②		210②		210		230		220		240		
			1200	.....	.....	.....	.....	220		240		230		250	
Panelboard Connection ②	.....	With Bus	400	\$320		\$340		\$360		\$380		\$380		\$400	
			600	340		360		380		400		400		420		
			1000	380②		420②		420		460		340		480		
			1200	.....	.....	.....	.....	440		480		460		500	
Molded-case Circuit Breakers ③	Conventional	TFJ	70-225	432		484		502		544		512		554		
		TFK	70-225	482		534		552		594		562		604		
		TJJ	125-400	800		864		870		924		880		934		
		TJK4	125-400	837		901		907		961		917		971		
		TJK6	500-600	1120		1174		1150		1204		1160		1214		
		TKM8	700-800	1355		1427		1385		1457		1395		1467		
		TKM12	1000	.....	.....	.....	.....	1591	.....	1681	.....	1601	.....	1691	.....
	1200		.....	.....	.....	.....	1983	.....	2073	.....	1993	.....	2083	.....	
		HI-BREAK®	THFK	70-225	712		764		782		824		792		834	
	THJK4		125-400	1085		1149		1155		1209		1165		1219		
	THKM8		125-600	1309		1381		1339		1411		1349		1421		
	THKM12		700-800	1519		1591		1549		1621		1559		1631		
			1000	.....	.....	.....	.....	1755	.....	1845	.....	1765	.....	1855	.....
			1200	.....	.....	.....	.....	2146	.....	2236	.....	2156	.....	2246	.....
		TRI-BREAK*	TB1	15-100	522		564		592		624		602		634	
	TB4		125-225	1046		1110		1116		1170		1126		1180		
			250-400	1269		1393		1339		1393		1349		1403		
	TB6		125-600	1834		1906		1864		1936		1874		1946		
		TB8	600-800	2102		2174		2132		2204		2142		2214		

BUSWAY ADAPTER CUBICLES ④ WITH ALUMINUM BUS BARS—225- to 4000-ampere Busway Range

Device				List Price Each				Device				List Price Each	
Type Disconnect	Frame		Rating in Amperes	3-pole		3-ph, 4-wire		Type Disconnect	Frame		Rating in Amperes	3-pole 600-v	3-ph, 4-wire 480Y/277-v
	Construction	Type		240-v	600-v	208Y/120-v	480Y/277-v		Construction	Type			
Fusible Switches	.....	QMR (No fuses included)	200	\$590	\$630	\$620	\$560	Molded-Case Circuit Breakers ⑤	HI-BREAK	THFK	70-225	\$1060	\$1090
			400	760	780	800	820			THJK4	125-400	1280	1320
			600	870	910	910	1070			THKM8	125-600	1540	1580
			800	1260	1450	1310	1500				700-800	1780	1820
			1200	1440	1750	1490	1800				1000	1990	2040
	High-pressure Contact	PLB and HPC ⑥	800	2950	2950	3150	3150		THKM12	1200	2380	2430	
1200			3370	3600	3680	3910		1200	2380	2430			
	Manually Operated	CLF® (Fuses included)	2000	4390	4620	4900	5130	TRI-BREAK	TB4	125-225	1240	1280	
2500			5760	5990	6400	6630	250-400			1460	1500		
3000			9000	9240	9770	10010	600-800			1930	1970		
4000			12420	12660	13660	13900	600-800			2220	2270		
Molded-case Circuit Breakers ⑤	Conventional	TFJ	70-225	\$780		\$810		Large Air Circuit Breakers	Manually operated	AK-15	15-225	2520	2560
		TFK	70-225	830		860				AK-25	40-600	3040	3170
		TJJ	125-400	990		1030				AK-50	200-1600	5660	5990
		TJK4	125-400	1030		1070				AK-50	2000	7150	7560
		TJK6	500-600	1380		1420				AK-75	2000-3000	13110	13730
		TKM8	700-800	1610		1660				AK-100	4000	18200	19030
		TKM12	1000	1820		1880			AK-15	15-225	3120	3160	
	1200		2220		2270			AK-25	40-600	3630	3760		
							Stationary Mounted	Electrically Operated ⑦	AK-50	200-1600	6940	7270	
									2000	8460	8870		
									AK-75	2000-3000	13110	13730	
									4000	18200	19030		

- ① Price includes power take-off box and enclosed device mounted on busway. Add for busway footage beside device.
- ② 800-ampere maximum rating.
- ③ For motor operation make following additions: (No push button, control switch or pilot lights included.) TFJ, TFK, THFK and TB1 breakers.....\$466 list each. All other molded-case breakers.....\$585 list each.
- ④ Price includes device, enclosure, connections, flange ends

- and labor. Add for busway footage of higher-rated busway through the cubicle. Do not add for tees or crosses.
- ⑤ Use prices in 600-volt column for type HPC switches rated maximum 480 volts.
- ⑥ No push buttons, control switch or pilot lights included. Maximum 230 volts a-c or d-c control.
- ⑦ Price does not include panelboard. Price panelboard separately.

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The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC ARMOR-CLAD* FEEDER AND PLUG-IN BUSWAY

WITH COPPER BUS BARS

Component	See Explanatory Note §	Unit	List Prices													
			Rating in Amperes													
			225	400	600	800	1000	1200	1350	1600	2000	2500	3000	4000	5000	
SINGLE OR 3-PHASE, 3-WIRE, A-C; 3-WIRE, D-C																
Straight Footage	Plug-in, indoor Feeder, indoor and weatherproof	1, 2	per ft	\$17	\$24	\$32	\$42	\$53	\$64	\$72	\$85	\$106	\$133	\$159	\$200	\$250
		1, 3	per ft	...	...	30	40	50	60	68	80	100	125	150	200	250
Turning Fittings	Elbow	4	each	130	130	130	130	130	130	130	130	160	160	160	190	190
	Tee	4	each	150	150	150	150	150	150	150	150	190	190	190	230	230
	Cross	4	each	170	170	170	170	170	170	170	170	230	230	230	260	260
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	200	210	220	230	240	250	260	290	320	340	400	450
	Center cable tap box	7	each	160	160	170	180	190	200	210	220	240	270	290	340	390
	Switchboard stub	8	each	170	190	220	260	300	340	370	420	500	600	700	900	1100
	Flange end	9	each	70	70	80	90	100	110	120	130	150	180	200	250	300
	Transformer throat connection	10	each	590	610	660	730	800	870	930	1010	1150	1330	1500	1850	2200
	Transformer (1-3 ϕ -Y or Δ) or (1 ϕ -3W)	11, 12	each	140	140	150	160	170	180	190	200	220	250	270	320	370
	Taps (3-(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860	990
Accessories	Internal ground bus	14	per ft	4	4	4	5	6	9	10	12	14	20	25	32	42
	Expansion section	15	each	200	220	240	270	300	330	350	390	450	530	600	750	900
	Unfused reducer	16	each	130	150	170	200	230	260	280	320	380	460	530	680	830
	Wall or floor flange	17	each	30	30	30	30	30	30	30	30	50	50	50	70	70
	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3	3
3-PHASE, 4-WIRE, A-C, HALF-CAPACITY NEUTRAL																
Straight Footage	Plug-in, indoor Feeder, indoor and weatherproof	1, 2	per ft	\$24	\$33	\$44	\$58	\$73	\$88	\$99	\$117	\$146	\$183	\$219	\$240	\$300
		1, 3	per ft	...	...	36	48	60	72	81	96	120	150	180	240	300
Turning Fittings	Elbow	4	each	150	150	150	150	150	150	150	150	200	200	200	230	230
	Tee	4	each	170	170	170	170	170	170	170	170	230	230	230	260	260
	Cross	4	each	190	190	190	190	190	190	190	190	260	260	260	290	290
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	210	220	230	240	250	260	280	310	340	370	440	500
	Center cable tap box	7	each	160	170	180	190	200	210	220	240	260	290	320	380	440
	Switchboard stub	8	each	180	210	240	290	340	390	420	480	580	700	820	1060	1300
	Flange end	9	each	70	80	90	100	110	120	130	150	170	200	230	290	350
	Transformer throat connection	10	each	590	640	700	790	870	950	1020	1120	1290	1500	1710	2130	2550
	Transformer (1-3 ϕ -Y or Δ)	11, 12	each	140	150	160	170	180	190	200	220	240	270	300	360	420
	Taps (3-(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860	990
Accessories	Internal ground bus	14	per ft	4	4	4	5	6	9	10	12	14	20	25	32	42
	Expansion section	15	each	210	230	260	290	330	370	390	440	510	600	690	870	1050
	Unfused reducer	16	each	140	160	190	220	260	300	320	370	440	530	620	800	980
	Wall or floor flange	17	each	30	30	30	30	30	30	30	30	50	50	50	70	70
	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3	3
3-PHASE, 4-WIRE, A-C, FULL-CAPACITY NEUTRAL																
Straight Footage	Plug-in, indoor Feeder, indoor and weatherproof	1, 2	per ft	\$24	\$33	\$41	\$58	\$73	\$88	\$99	\$117	\$146	\$183	\$219	\$280	\$350
		1, 3	per ft	...	...	42	56	70	84	95	112	140	175	210	280	350
Turning Fittings	Elbow	4	each	150	150	150	150	150	150	150	150	200	200	200	230	230
	Tee	4	each	170	170	170	170	170	170	170	170	230	230	230	260	260
	Cross	4	each	190	190	190	190	190	190	190	190	260	260	260	290	290
Termination Fittings	End box	5	each	40	40	40	40	40	40	40	40	50	50	50	60	60
	End cable tap box	6	each	200	210	220	240	250	260	280	290	330	370	400	480	550
	Center cable tap box	7	each	160	170	180	200	210	220	240	250	280	320	350	420	490
	Switchboard stub	8	each	190	230	270	320	380	440	480	550	660	800	940	1220	1500
	Flange end	9	each	70	80	90	110	120	130	150	160	190	230	260	330	400
	Transformer throat connection	10	each	610	670	740	840	940	1040	1120	1230	1430	1680	1920	2410	2900
	Transformer (1-3 ϕ -Y or Δ)	11, 12	each	140	150	160	180	190	200	220	230	260	300	330	400	470
	Taps (3-(1 ϕ , connected Y or Δ))	11, 13	each	400	420	430	460	490	520	530	560	620	690	730	860	990
Accessories	Internal ground bus	14	per ft	4	4	4	5	6	9	10	12	14	20	25	32	42
	Expansion section	15	each	220	250	280	320	360	400	440	490	570	680	780	990	1200
	Unfused reducer	16	each	150	180	210	250	290	330	370	420	500	610	710	920	1130
	Wall or floor flange	17	each	30	30	30	30	30	30	30	30	50	50	50	70	70
	Roof flange	18	each	170	170	170	170	170	170	170	170	170	170	170	170	170
	Weather or fire divider	19	each	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c	n/c
	Spring hanger	20	each	20	20	20	20	20	20	20	20	30	30	30	40	40
	Extra edgewise, flatwise or vertical rigid hangers		each	3	3	3	3	3	3	3	3	3	3	3	3	3

§ Numbers refer to notes found on a following page under "HOW TO PRICE BUSWAY."

* Trade-mark of General Electric Company.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC ARMOR-CLAD* FEEDER AND PLUG-IN BUSWAY

POWER TAKE-OFFS^① WITH COPPER BUS BARS—PANELBOARD CONNECTION: Add appropriately rated cable tap-off price to busway and add the same amount to the price of the panelboard.

Device				List Price Each												
Type Disconnect	Frame		Rating in Amperes	600-1600-amp Busway Range				2000-3000-amp Busway Range				4000-5000-amp Busway Range				
	Construction	Type		3-pole		3-ph, 4-wire		3-pole		3-ph, 4-wire		3-pole		3-ph, 4-wire		
				240-v	600-v	208Y/120-v	480Y/277-v	240-v	600-v	208Y/120-v	480Y/277-v	240-v	600-v	208Y/120-v	480Y/277-v	
Fusible Switches	.....	QMR (No fuses included)	100	\$202	\$205	\$242	\$250	\$272	\$275	\$302	\$310	\$282	\$285	\$312	\$320
			200	270	278	320	328	340	348	380	388	350	358	390	398	
			400	507	507	567	567	577	577	627	627	587	587	637	637	
			600	700	700	772	772	730	730	802	802	740	740	812	812	
			800	1100	1100	1190	1190	1130	1130	1220	1220	1140	1140	1230	1230	
			1200	1140	1140	1230	1230	1160	1160	1250	1250	1170	1170	1260	1260	
Panelboard Connection ^⑦	.....	With Bus	400	\$320		\$340		\$360		\$380		\$380		\$400	
			600	340		360		380		400		400		420		
			1000	380		420		420		460		440		480		
			1200	400		440		440		480		460		500		
Cable Top-offs		Lugs Only	400	\$160		\$170		\$180		\$190		\$190		\$200		
			600	170		180		190		200		200		210		
			1000	190		210		210 ^④		230		220		240		
			1200	200		220		220		240		230		250		
Molded-case Circuit Breakers ^④	Conventional	TFJ	70-225	432	484	502	544	512	554	512	554					
		TFK	70-225	482	534	552	594	562	604	562	604					
		TJJ	125-400	800	864	870	924	880	934	880	934					
		TKJ4	125-400	837	901	907	961	917	971	917	971					
		TJK6	500-600	1120	1174	1150	1204	1160	1214	1160	1214					
		TKM8	700-800	1355	1427	1385	1457	1395	1467	1395	1467					
		TKM12	1000	1571	1661	1591	1681	1601	1691	1601	1691					
			1200	1963	2053	1983	2073	1993	2083	1993	2083					
		HI-BREAK ^⑥	THFK	70-225	712	764	782	824	792	834	792	834				
			THJK4	125-400	1085	1149	1155	1209	1165	1219	1165	1219				
	THKM8		125-600	1309	1381	1339	1411	1349	1421	1349	1421					
			700-800	1519	1591	1549	1621	1559	1631	1559	1631					
	THKM12		1000	1735	1825	1755	1845	1765	1855	1765	1855					
			1200	2126	2216	2146	2236	2156	2246	2156	2246					
	TRI-BREAK [*]	TB1	15-100	522	564	592	624	602	634	602	634					
		TB4	125-225	1046	1110	1116	1170	1126	1180	1126	1180					
			250-400	1269	1393	1339	1393	1349	1403	1349	1403					
		TB6	125-600	1834	1906	1864	1936	1874	1946	1874	1946					
		TB8	600-800	2102	2174	2132	2204	2142	2214	2142	2214					

BUSWAY ADAPTER CUBICLES^⑤, WITH COPPER BUS BARS—225- to 5000-ampere Busway Range

Device				List Price Each				Device				List Price Each		
Type Disconnect	Frame		Rating in Amperes	3-pole		3-ph, 4-wire		Type Disconnect	Frame		Rating in Amperes	3-pole 600-v	3-ph, 4-wire 480Y/277-v	
	Construction	Type		240-v	600-v	208Y/120-v	480Y/277-v		Construction	Type				
Fusible Switches	.....	QMR (No fuses included)	200	\$590	\$630	\$620	\$660	Molded-Case Circuit Breakers ^④	HI-BREAK	THFK	70-225	\$1060	\$1090
			400	760	780	800	820			THJK4	125-400	1280	1320	
			600	870	1030	910	1070			THKM8	125-600	1540	1580	
			800	1260	1450	1310	1500				700-800	1780	1820	
			1200	1440	1750	1490	1800			THKM12	1000	1990	2040	
										1200	2380	2430		
	High-pressure Contact	PLB and HPC ^⑥	800	2950	2950	3150	3150	TRI-BREAK	TB4	125-225	1240	1280		
			1200	3370	3600	3680	3910			TB6	250-400	1460	1500	
			1600	3890	4120	4300	4530			TB8	125-600	1930	1970	
			2000	4390	4620	4900	5130				600-800	2220	2270	
	Manually Operated	CLF ^⑥ (Fuses included)	2500	5760	5990	6400	6630	Large Air Breakers	Manually operated	AK-15	15-225	2520	2560	
			3000	9000	9240	9770	10010				AK-25	40-600	3040	3170
			4000	12420	12660	13660	13900				AK-50	200-1600	5660	5990
											AKT-50	2000	7150	7560
Molded-case Circuit Breakers ^④	Conventional	TFJ	70-225	\$780	\$810	\$810	\$810	Stationary Mounted	Electrically Operated ^④	AK-15	15-225	3120	3160	
		TFK	70-225	830	860	860	860			AK-25	40-600	3630	3760	
		TJJ	125-400	990	1030	1030	1030			AK-50	200-1600	6940	7270	
		TKJ4	125-400	1030	1070	1070	1070			AKT-50	2000	8460	8870	
		TJK6	500-600	1380	1420	1420	1420			AK-75	2000-3000	13110	13730	
	TKM8	700-800	1610	1660	1660	1660	AK-100	4000	18200	19030				
	TKM12	1000	1820	1880	1880	1880								
		1200	2220	2270	2270	2270								

- ① Price includes power take-off box and enclosed device mounted on busway. Add for busway footage beside device.
- ② 800-ampere maximum rating.
- ③ For motor operation make following additions: (No push button, control switch or pilot lights included.)
TFJ, TFK, THFK and TB1 breakers \$466 list each.
All other molded-case breakers \$585 list each.
- ④ Price includes device, enclosure, connections, flange ends

- and labor. Add for busway footage of higher-rated busway through the cubicle. Do not add for tees or crosses.
- ⑤ Use prices in 600-volt column for type HPC switches rated maximum 480 volts.
- ⑥ No push buttons, control switch or pilot lights included. Maximum 230 volts a-c or d-c control.
- ⑦ Price does not include panelboard. Price panelboard separately.

* Trade-mark of General Electric Company.

The Above Items Are Subject to 50% Discount

GENERAL ELECTRIC ARMOR-CLAD* FEEDER AND PLUG-IN BUSWAY

HOW TO ORDER

The following information should appear on all orders for all busways:

1. Project name and location
2. Power service (voltage, frequency, ampere ratings, phases and neutral capacity, if any)
3. Special atmospheric or ambient conditions
4. Shipping instructions
5. Mounting position—flatwise, edgewise or vertical riser
6. Hanger spacing
7. Reference to previous installation, if any
8. Part of order to be shipped first (on larger installations)

When a layout involves special fittings, drawings or sketches should be supplied with all busway dimensions shown as center-line measurements. The following information should also appear:

1. Power take-off locations
2. Location of possible obstructions
3. Number and size of lugs in tap boxes, transformer taps, power take-offs and adapters
4. Details, such as bus extensions, drillings, etc.
5. Switchboard drawings
6. Specifications, blueprints, and work sheets

HOW TO PRICE BUSWAY

To price busway, these steps should be followed:

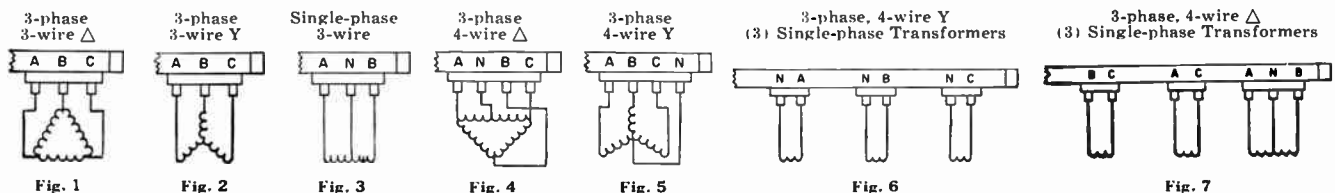
- a. Figure total number of feet (or any fraction thereof) in each run including footage through all accessories. Select appropriate unit price.
- b. List all fittings required. Note that some are priced as a complete unit and others on a forming charge basis. See notes below.
- c. When desired fittings are not listed, refer to factory for prices.

Notes

1. Prices are per foot or any fraction thereof and include material, labor of forming and joint hardware. **ARMOR-CLAD** busway is U/L-listed for indoor or outdoor use and for hanging on 10-foot centers in any position. One hanger is included with each 10-foot section and each tap box.
2. Plug-in busway is similar to feeder type except that it is provided with 10 outlets for plugs in a 10-foot section. Available in indoor type only.
3. Feeder busway is used for connecting between a source and single load. Tapoffs along the run can be made only with power take-offs or cable tap boxes located at joints between sections. One or more lengths of plug-in busway can be installed in a feeder busway run. Price plug-in length(s) at the plug-in "per foot" price.
4. Price includes labor of forming only. Add for material at straight footage price. If angle between busways is other than 90 degrees, double the forming price. Any single change in direction of the center line of the busway is an elbow. A single offset is two elbows. For tees or crosses, use price of highest-ampere-rated busway entering the tee or cross. Add for reducer(s) if required.
5. Price includes material and labor of forming and necessary joint hardware.
6. Price includes material and labor of forming. End cable tap boxes are provided with sufficient lugs for the rating of the busway. Lugs are suitable for copper or aluminum cable. Suitable for end-of-run mounting.
7. Similar to end cable tap box (note 6) except for mounting at a joint between two sections.
8. Price includes flange, bus-bar extensions, phase collection and labor of forming necessary to connect to bus-bar risers in General Electric equipment. For connection to other equipment, refer to Graybar.

9. Price includes flange and 6-inch flared bus extensions. No phase collection, lugs or drilling included.
10. Price includes necessary bus-bar connections from busway to transformer load terminals, steel enclosure for full-length flange or throat on transformer and busway flange. Applies to General Electric power transformers only. For other makes, refer to Graybar.
11. Price includes transformer taps as indicated in Figs. 1 to 7 below, one end box, sufficient lugs for the rating of the busway, and labor of forming. Add for straight footage of busway passing by the transformers.
12. Price includes material and labor for forming 3-wire tap for 3-wire busway which may be used for 3-phase, 3-wire (Figs. 1 and 2) or single-phase, 3-wire (Fig. 3). For 3-phase, 4-wire includes 4-wire tap with half- or full-capacity neutral, same as busway (Figs. 4 and 5). Price includes end box.
13. Price includes three 2-wire taps for 3-wire busway (same as Fig. 7, except no neutral) or two 2-wire and one 2- or 3-wire tap (Fig. 6 or 7) for 4-wire busway and end box.
14. Price includes 50% capacity bus of same material as bus bars clamped to housing at the joints.
15. Price includes labor of forming only. Add for material at straight footage price. Furnished in minimum 5-foot lengths only. Expansion fittings permit ± 2 inches, total 4 inches of movement as standard. Not weatherproof. Refer to Graybar for other arrangements.
16. Price includes labor of forming only. Add for material at straight footage price. Use price of higher-ampere-rated busway entering reducer.
17. Price includes material and labor of forming flange only. Includes flange on one side of wall or floor. If flange on both sides is required, multiply the price by 2. Note busway is inherently resistant to passage of weather or fire through the housing.
18. Price includes material and labor of forming roof flange for either flat or sloping roof. Note busway is inherently resistant to passage of weather or fire through the housing. Add for busway at straight footage price.
19. Busway is inherently resistant to passage of weather or fire through the housing.
20. Includes necessary springs and hardware to attach busway to rigid vertical riser hangers when spring mounting is required.

TRANSFORMER CONNECTIONS



* Trade-mark of General Electric Company.

GENERAL ELECTRIC ARMOR-CLAD* PLUG-IN BUSWAY

CIRCUIT BREAKER PLUGS

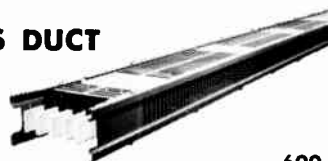
NOTE: Standard plug steel stab shields provide a ground path from plug body to busway housing. If grounding stab on plug to engage internal bus is required, add \$10 list per plug. Order by description.

Table with 5 main columns: Frame, Trip Amp, 3-phase-3-wire (Catalog Number, List Price, Each), 3-phase-4-wire (Catalog Number, List Price, Each). Sub-sections include CONVENTIONAL CIRCUIT BREAKERS, CONVENTIONAL CIRCUIT BREAKERS (Cont'd), HI-BREAK® CIRCUIT BREAKERS, and TRI-BREAK* CIRCUIT BREAKERS. Models listed include TE, TEF4, TEF6, TFJ, TFK, TJJ, TJK4, TJK6, THF4, THF6, THFK, THJK4, THKM8, TB1, TB4, TB6, TB8.

NOTE: NIT—Non-interchangeable trip; IT—interchangeable trip.

The Above Items Are Subject to 50% Discount

I-T-E XL-U ALUMINUM BUS DUCT



NON-VENTILATED—225-600 AMPERES

600 VOLTS OR LESS

Capacity Amperes	Basic Cat. No.†	DUCT FOOTAGE					DUCT ACCESSORIES									
		Feeder [▲] **	Plug-In **	Ground Bus	Case Dimen- sions Inches*	Ship. Wgt. Lb. Ft.*	Adjustable Length Section	90° Elbow		Tee		Cross		Swbd. Termin- ation‡	Bus Bar Exten- sion	
		Cat. No. Suffix-BF	Cat. No. Suffix-BP	Cat. No. Suffix-G			Cat. No. Suffix-BK	Cat. No. Suffix-BL	Cat. No. Suffix-BT	Cat. No. Suffix-BX	Cat. No. Suffix-BS	List Price	List Price			
		List Price Per Ft.	List Price Per Ft.	List Price Adder Per Ft.	Complete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price			List Price	List Price	
3 POLE																
225	U302A	\$12.	\$12.	\$3.	4½ x 10	8	\$55.		\$136.	\$160.	\$170.	\$206.	\$250.	\$135.	\$20.	
400	U304A	16.	16.	4.	4½ x 10	9	75.			168.		218.	266.	150.	25.	
600	U306A	22.	22.	6.	5½ x 10	10	105.			180.		236.	290.	169.	37.	
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL																
225	U502A	15.	15.	3.	4½ x 10	8	70.		170.	200.	202.	247.	296.	175.	31.	
400	U504A	24.	24.	4.	4½ x 10	10	110.			218.		274.	332.	191.	36.	
600	U506A	32.	32.	6.	5½ x 10	11	155.			234.		298.	364.	213.	44.	

VENTILATED—800-5000 AMPERES

600 VOLTS OR LESS

Capacity Amperes	Basic Cat. No.†	DUCT FOOTAGE					DUCT ACCESSORIES									
		Feeder [▲]	Plug-In	Ground Bus	Case Dimen- sions Inches*	Ship. Wgt. Lb./Ft.*	90° Elbow		Tee		Cross		Swbd. Termin- ation‡	Bus Bar Exten- sion		
		Cat. No. Suffix-VF	Cat. No. Suffix-VP	Cat. No. Suffix-G			Cat. No. Suffix-VL	Cat. No. Suffix-VT	Cat. No. Suffix-VX	Cat. No. Suffix-VS	List Price	List Price				
		List Price Per Ft.	List Price Per Ft.	List Price Adder Per Ft.	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price			List Price	List Price		
3 POLE																
800	U308A	\$30.	\$30.	\$4.	4½ x 10	9		\$196.		\$260.		\$322.	\$209.	\$43.		
1000	U310A	36.	36.	4.	4½ x 10	10		208.		278.		346.	227.	57.		
1200	U312A	45.	45.	5.	5½ x 10	11		226.		305.		382.	248.	62.		
1350	U313A	52.	52.	6.	5½ x 10	12		240.		326.		410.	258.	72.		
1600	U316A	62.	62.	7.	7½ x 10	15	\$136.	260.	\$170.	356.	\$202.	450.	319.	82.		
2000	U320A	73.	73.	8.	7½ x 10	17		282.		389.		494.	328.	104.		
2500	U325A	89.	89.	12.	9½ x 10	21		314.		437.		558.	398.	138.		
3000	U330A	104.	104.	7.	7½ x 20¾	31	170.	378.	202.	514.	236.	652.	416.	223.		
4000	U340A	144.	144.	10.	9½ x 20¾	49		458.		634.		812.	462.	319.		
5000	U350A	185.	185.	12.	9½ x 20¾	43		540.		757.		976.	489.	371.		
3 PHASE, 4 WIRE—HALF-CAPACITY NEUTRAL																
800	U408A	35.	35.	4.	4½ x 10	9		240.		307.		376.	236.	47.		
1000	U410A	44.	44.	4.	4½ x 10	10		258.		334.		412.	252.	62.		
1200	U412A	54.	54.	5.	5½ x 10	12		278.		354.		452.	273.	67.		
1350	U413A	62.	62.	6.	5½ x 10	13		294.		388.		484.	284.	76.		
1600	U416A	70.	70.	7.	7½ x 10	15	170.	310.	202.	412.	236.	516.	334.	94.		
2000	U420A	89.	89.	8.	7½ x 10	18		348.		469.		592.	352.	111.		
2500	U425A	109.	109.	12.	9½ x 10	23		388.		529.		672.	416.	150.		
3000	U430A	131.	131.	7.	7½ x 20¾	33	202.	464.	236.	629.	270.	794.	435.	240.		
4000	U440A	177.	177.	10.	9½ x 20¾	42		556.		767.		978.	484.	341.		
5000	U450A	218.	218.	12.	9½ x 20¾	46		638.		890.		1142.	515.	396.		
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL																
800	U508A	42.	42.	4.	4½ x 10	10		254.		328.		404.	254.	49.		
1000	U510A	49.	49.	4.	4½ x 10	11		268.		349.		432.	267.	68.		
1200	U512A	62.	62.	5.	5½ x 10	13		294.		388.		484.	288.	73.		
1350	U513A	70.	70.	6.	5½ x 10	14		310.		412.		516.	300.	81.		
1600	U516A	82.	82.	7.	7½ x 10	17	170.	334.	202.	448.	236.	564.	344.	104.		
2000	U520A	100.	100.	8.	7½ x 10	19		370.		502.		636.	364.	120.		
2500	U525A	125.	125.	12.	9½ x 10	24		420.		577.		736.	432.	161.		
3000	U530A	151.	151.	7.	7½ x 20¾	34	202.	504.	236.	689.	270.	874.	453.	258.		
4000	U540A	200.	200.	10.	9½ x 20¾	45		602.		836.		1070.	505.	364.		
5000	U550A	249.	249.	12.	9½ x 20¾	50		700.		983.		1266.	546.	412.		

▲ For weatherproof feeder duct, refer to I-T-E sales office.

** Also available with insulated conductors in ventilated or non-ventilated construction. To order, change first letter of Cat. No. Suffix from "B" to "V" for ventilated, or "E" for non-ventilated.

† TO ORDER—Use Basic Cat. No. and odd Cat. No. Suffixes as required for specific item. Example: Duct—U420AVF-G; Accessory—U420AVL-G.

* Dimensions and weights apply for edgewise or vertical-riser mounting. For sizes and weights on flatwise-mounted duct.

‡ Includes flange to cover cutout in top of switchboard and 8" of fabricated bus bar extension inside switchboard. Add for footage outside of switchboard.

The Above Items Are Subject to 50% Discount

I-T-E XL-U ALUMINUM BUS DUCT

ACCESSORIES

NON-VENTILATED—225-600 AMPERES

600 VOLTS OR LESS

Capacity Amperes	DUCT ACCESSORIES														
	Transformer Tap ^o		End Closer		Center Tap Box	End Tap Box		Expansion Section		Reducer or Adaptor	Wall or Floor Flange	Roof Flange	Fire Barrier	Std. Floor Support	Weather-Stop
	Complete Device List Price		Complete Device		Cat. No. Suffix-BM	Cat. No. Suffix-BB		Cat. No. Suffix-BJ							
	3 Phase	3-1 Phase	Cat. No.	List Price	Complete Device List Price	Box Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price
3 POLE															
225			UE145	\$20.	\$115.	\$115.	\$127.	\$170.	\$218.	—	\$45.	\$260.	\$50.	\$20.	\$100.
400	\$60.	\$155.	UE145	20.			131.	191.	255.	\$144.					
600			UE155	25.			137.	211.	299.	165.					
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL															
225			UE145	20.	125.	125.	140.	200.	260.	—	45.	260.	50.	20.	100.
400	70.	180.	UE145	20.			149.	217.	313.	144.					
600			UE155	25.			157.	247.	375.	165.					

VENTILATED—800-5000 AMPERES

600 VOLTS OR LESS

Capacity Amperes	DUCT ACCESSORIES														
	Transformer Tap ^o		End Closer		Center Tap Box	End Tap Box		Expansion Section		Reducer or Adaptor	Wall or Floor Flange	Roof Flange	Fire Barrier	Std. Floor Support	Weather-Stop
	Complete Device List Price		Complete Device		Cat. No. Suffix-VM	Cat. No. Suffix-VB		Cat. No. Suffix-VJ							
	3 Phase	3-1 Phase	Cat. No.	List Price	Complete Device List Price	Box Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price
3 POLE															
800			UE145	\$20.	\$155.	\$155.	\$185.	\$272.	\$392.	\$177.					
1000	\$105.	\$260.	UE145	20.			191.	290.	434.	198.					
1200			UE155	25.			200.	328.	508.	214.					
1350			UE155	25.			207.	350.	558.	231.	\$45.			\$20.	
1600			UE175	30.	260.	260.	322.	408.	656.	258.		\$260.	\$50.		\$100.
2000	210.	515.	UE175	30.			333.	442.	734.	326.					
2500			UE195	40.			349.	525.	881.	428.					
3000			UE275	50.	410.	410.	514.	599.	1015.	505.				40.	
4000	360.	900.	UE295	60.			554.	761.	1337.	685.	90.				
5000			UE295	60.			595.	906.	1646.	865.					
3 PHASE, 4 WIRE—HALF-CAPACITY NEUTRAL															
800			UE145	20.	160.	160.	195.	326.	466.	210.					
1000	110.	275.	UE145	20.			204.	365.	541.	235.					
1200			UE155	25.			214.	392.	608.	254.					
1350			UE155	25.			222.	412.	660.	272.	45.			20.	
1600			UE175	30.	270.	270.	340.	463.	743.	299.		260.	50.		100.
2000	220.	545.	UE175	30.			359.	530.	886.	391.					
2500			UE195	40.			379.	626.	1062.	496.					
3000			UE275	50.	435.	435.	566.	721.	1245.	591.				40.	
4000	380.	955.	UE295	60.			612.	897.	1605.	786.	90.				
5000			UE295	60.			653.	1073.	1945.	982.					
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL															
800			UE145	20.	165.	165.	207.	376.	544.	243.					
1000	115.	290.	UE145	20.			214.	408.	604.	272.					
1200			UE155	25.			227.	453.	701.	292.					
1350			UE155	25.			235.	472.	752.	313.	45.			20.	
1600			UE175	30.	280.	280.	362.	534.	862.	340.		260.	50.		100.
2000	230.	580.	UE175	30.			380.	608.	1008.	457.					
2500			UE195	40.			405.	685.	1185.	565.					
3000			UE275	50.	450.	450.	601.	798.	1402.	678.				40.	
4000	395.	1000.	UE295	60.			650.	999.	1799.	894.	90.				
5000			UE295	60.			698.	1200.	2196.	1131.					

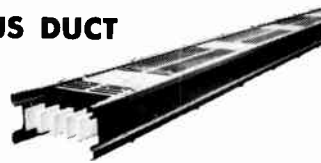
^o Includes 8" bus-bar extension.

Hangers—1 Hanger is included free of charge with each duct section and accessory.

Additional Hangers are available at \$1.00 list each. To order, use same Cat. No. as shown above for End Closer, except change second letter from "E" to "H". Example: UH 145.

The Above Items Are Subject to 50% Discount

I-T-E XL-U COPPER BUS DUCT



NON-VENTILATED—225-600 AMPERES

600 VOLTS OR LESS

Capacity Amperes	Basic Cat. No.	DUCT FOOTAGE					DUCT ACCESSORIES							
		Feeder ^{**}	Plug-In ^{**}	Ground Bus	Case Dimensions Inches	Ship. Wgt. Lb./Ft.	Adjustable Length Section	90° Elbow	Tee		Cross		Swbd. Termin- ation†	Bus Bar Exten- sion
		Cat. No. Suffix-BF	Cat. No. Suffix-BP	Cat. No. Suffix-G			Cat. No. Suffix-BK	Cat. No. Suffix-BL	Cat. No. Suffix-BT	Cat. No. Suffix-BX	Cat. No. Suffix-BS	List Price	List Price	
		List Price Per Ft.	List Price Per Ft.	List Price Adder Per Ft.	Complete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price			List Price
3 POLE														
225	U302C	\$16.	\$16.	\$4.	4½ x 10	8	\$80.							
400	U304C	24.	24.	6.		12	120.	\$136.	\$168.	\$170.	\$218.	\$266.	\$154.	\$27.
600	U306C	31.	31.	8.		13	155.	184.	198.	263.	298.	326.	185.	45.
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL														
225	U502C	25.	25.	4.	4½ x 10	9	105.		220.		277.		193.	
400	U504C	34.	34.	6.		13	155.	170.	238.	202.	304.	336.	206.	39.
600	U506C	45.	45.	8.		15	210.	260.	337.	336.	416.	472.	224.	60.

VENTILATED—800-6500 AMPERES

600 VOLTS OR LESS

Capacity Amperes	Basic Cat. No.†	DUCT FOOTAGE					DUCT ACCESSORIES							
		Feeder [*]	Plug-In	Ground Bus	Case Dimen- sions*	Ship. Wgt. Lb./Ft.*	90° Elbow	Tee		Cross		Swbd. Termin- ation†	Bus Bar Exten- sion	
		Cat. No. Suffix-VF	Cat. No. Suffix-VP	Cat. No. Suffix-G			Cat. No. Suffix-VL	Cat. No. Suffix-VT	Cat. No. Suffix-VX	Cat. No. Suffix-VS	List Price	List Price		
		List Price Per Ft.	List Price Per Ft.	List Price Adder Per Ft.	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price	Labor Only List Price	Com- plete Device List Price			List Price	List Price
3 POLE														
800	U308C	\$39.	\$39.	\$4.	4½ x 10	12		\$214.		\$287.		\$358.	\$221.	\$61.
1000	U310C	48.	48.	6.		14		232.		314.		394.	248.	77.
1200	U321C	60.	60.	6.		15		256.		350.		442.	259.	88.
1350	U313C	70.	70.	8.	4½ x 10	18	\$136.	276.	\$170.	380.	\$202.	482.	270.	98.
1600	U316C	82.	82.	10.	5½ x 10	22		300.		416.		530.	328.	115.
2000	U320C	103.	103.	12.	5½ x 10	25		342.		479.		614.	344.	143.
2500	U325C	128.	128.	16.	7½ x 10	32		412.		554.		714.	407.	192.
3000	U330C	155.	155.	20.	9½ x 10	39		446.		635.		822.	440.	242.
4000	U340C	203.	203.	12.	7½ x 20¾	54		576.		811.		1048.	468.	288.
5000	U350C	247.	247.	16.	7½ x 20¾	66	170.	664.	202.	943.	236.	1224.	505.	328.
6000	U360C	304.	304.	20.	9½ x 20¾	80		778.		1114.		1452.	552.	356.
6500	U365C	329.	329.	24.	9½ x 20¾	92		828.		1189.		1552.	618.	365.
3 PHASE, 4 WIRE—HALF-CAPACITY NEUTRAL														
800	U408C	49.	49.	4.	4½ x 10	13		268.		349.		432.	251.	64.
1000	U410C	58.	58.	6.		16		286.		376.		468.	271.	87.
1200	U412C	72.	72.	6.		17		314.		418.		524.	282.	98.
1350	U413C	82.	82.	8.	4½ x 10	20	170.	334.	202.	448.	236.	564.	296.	105.
1600	U416C	95.	95.	10.	5½ x 10	24		360.		487.		616.	340.	131.
2000	U420C	120.	120.	12.	5½ x 10	28		410.		562.		716.	356.	154.
2500	U425C	148.	148.	16.	7½ x 10	37		466.		646.		828.	431.	208.
3000	U430C	179.	179.	20.	9½ x 10	44		528.		739.		952.	445.	269.
4000	U440C	237.	237.	12.	7½ x 20¾	61		676.		947.		1218.	482.	309.
5000	U450C	292.	292.	16.	7½ x 20¾	75	202.	786.	236.	1112.	270.	1438.	515.	352.
6000	U460C	366.	366.	20.	9½ x 20¾	90		934.		1334.		1734.	567.	376.
6500	U465C	381.	381.	24.	9½ x 20¾	103		964.		1379.		1794.	618.	390.
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL														
800	U508C	59.	59.	4.	4½ x 10	14		288.		379.		472.	267.	69.
1000	U510C	71.	71.	6.		17		312.		415.		520.	284.	95.
1200	U512C	83.	83.	6.		18		336.		451.		568.	295.	106.
1350	U513C	95.	95.	8.	4½ x 10	22	170.	360.	202.	487.	236.	616.	308.	114.
1600	U516C	111.	111.	10.	5½ x 10	27		392.		535.		680.	349.	143.
2000	U520C	137.	137.	12.	5½ x 10	29		444.		613.		784.	365.	166.
2500	U525C	170.	170.	16.	7½ x 10	41		510.		712.		916.	436.	224.
3000	U530C	208.	208.	20.	9½ x 10	49		586.		826.		1068.	464.	282.
4000	U540C	276.	276.	12.	7½ x 20¾	67		754.		1064.		1374.	493.	319.
5000	U550C	335.	335.	16.	7½ x 20¾	82	202.	672.	236.	1241.	270.	1610.	525.	362.
6000	U560C	417.	417.	20.	9½ x 20¾	100		1036.		1487.		1938.	577.	388.
6500	U565C	448.	448.	24.	9½ x 20¾	116		1098.		1580.		2062.	638.	402.

* For weatherproof feeder duct, refer to I-T-E sales office.
 ** Also available with insulated conductors in ventilated or non-ventilated construction. To order, change first letter of Cat. No. Suffix from "B" to "V" for ventilated, or "E" for non-ventilated.
 † TO ORDER—Use Basic Cat. No. and add Cat. No. Suffixes as required for specific item. Example: Duct—U420CVF-W-G, Accessory—U420CVL-G.
 * Dimensions and weights apply for edgewise or vertical-riser mounting. For sizes and weights on flatwise-mounted duct, refer to I-T-E sales office.
 † Includes flange to cover cut out in top of switchboard and B" of fabricated bus bar extension inside switchboard. Add for footage outside of switchboard.

The Above Items Are Subject to 50% Discount

I-T-E XL-U COPPER BUS DUCT

ACCESSORIES

NON-VENTILATED—225-600 AMPERES

600 VOLTS OR LESS

Capacity Amperes	DUCT ACCESSORIES															
	Transformer Tap [®]		End Closer		Center Tap Box	End Tap Box		Expansion Section		Reducer or Adaptor	Wall or Floor Flange	Roof Flange	Fire Barrier	Std. Floor Support	Weather-Stop	
	Complete Device List Price		Complete Device		Cat. No. Suffix-BM	Cat. No. Suffix-BB		Cat. No. Suffix-BJ		Labor Only List Price	Complete Device List Price	Labor Only List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price	
	3 Phase	3-1 Phase	Cat. No.	List Price	Complete Device List Price	Box Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price							
3 POLE																
225	\$70.	\$180.	UE145	\$20.	\$125.	\$125.	\$141.	\$170.	\$234.	—	\$144.	\$45.	\$260.	\$50.	\$20.	\$100.
400							149.	191.	287.							
600							156.	211.	335.							
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL																
225	80.	205.	UE145	20.	135.	135.	160.	200.	300.	—	144.	45.	260.	50.	20.	100.
400							169.	217.	353.							
600							180.	297.	427.							

VENTILATED—800-6500 AMPERES

600 VOLTS OR LESS

Capacity Amperes	DUCT ACCESSORIES														
	Transformer Tap [®]		End Closer		Center Tap Box	End Tap Box		Expansion Section		Reducer or Adaptor	Wall or Floor Flange	Roof Flange	Fire Barrier	Std. Floor Support	Weather-Stop
	Complete Device List Price		Complete Device		Cat. No. Suffix-VM	Cat. No. Suffix-VB		Cat. No. Suffix-VJ		Labor Only List Price	Complete Device List Price	Labor Only List Price	Labor Only List Price	Complete Device List Price	Labor Only List Price
	3 Phase	3-1 Phase	Cat. No.	List Price	Complete Device List Price	Box Only List Price	Complete Device List Price	Labor Only List Price	Complete Device List Price						
3 POLE															
800	\$120.	\$300	UE145	\$20.	\$170.	\$170.	\$209.	\$272.	\$428.	\$177.	\$45.	\$260.	\$50.	\$20.	\$100.
1000			UE145	20.			218.	290.	482.						
1200			UE145	20.			230.	328.	568.						
1350	240.	600.	UE145	20.	290.	290.	240.	350.	630.	428.	\$260.	\$50.	\$20.	\$100.	
1600			UE155	25.			252.	408.	736.						
2000			UE155	25.			273.	442.	854.						
2500	415.	1040.	UE175	30.	470.	470.	418.	525.	1037.	685.	90.	260.	50.	40.	
3000			UE195	40.			445.	599.	1219.						
4000			UE275	50.			673.	761.	1573.						
5000	440.	1090.	UE275	50.	490.	490.	717.	906.	1894.	865.	90.	260.	50.	40.	
6000			UE295	60.			774.	1061.	2277.						
6500			UE295	60.			799.	1133.	2449.						
3 PHASE, 4 WIRE—HALF-CAPACITY NEUTRAL															
800	125.	315.	UE145	20.	175.	175.	224.	326.	522.	210.	45.	260.	50.	20.	100.
1000			UE145	20.			233.	365.	597.						
1200			UE145	20.			247.	392.	680.						
1350	250.	630.	UE145	20.	300.	300.	257.	412.	740.	272.	45.	260.	50.	20.	
1600			UE155	25.			270.	463.	843.						
2000			UE155	25.			295.	530.	1010.						
2500	260.	660.	UE175	30.	310.	310.	448.	626.	1218.	496.	90.	260.	50.	40.	
3000			UE195	40.			479.	721.	1437.						
4000			UE275	50.			727.	897.	1845.						
5000	455.	1140.	UE275	50.	505.	505.	782.	1073.	2241.	982.	90.	260.	50.	40.	
6000			UE295	60.			922.	1401.	3069.						
6500			UE295	60.			953.	1494.	3286.						
3 PHASE, 4 WIRE—FULL-CAPACITY NEUTRAL															
800	130.	330.	UE145	20.	180.	180.	239.	376.	612.	243.	45.	260.	50.	20.	100.
1000			UE145	20.			251.	408.	692.						
1200			UE145	20.			263.	453.	785.						
1350	260.	660.	UE145	20.	310.	310.	275.	472.	852.	313.	45.	260.	50.	20.	
1600			UE155	25.			291.	534.	978.						
2000			UE155	25.			317.	608.	1156.						
2500	455.	1140.	UE175	30.	505.	505.	480.	685.	1365.	565.	90.	260.	50.	40.	
3000			UE195	40.			518.	798.	1630.						
4000			UE275	50.			781.	999.	2103.						
5000	455.	1140.	UE275	50.	505.	505.	840.	1200.	2540.	1131.	90.	260.	50.	40.	
6000			UE295	60.			922.	1401.	3069.						
6500			UE295	60.			953.	1494.	3286.						

[®] Includes 8" bus-bar extension.

Hangers—1 Hanger is included free of charge with each duct section and accessory.

Additional Hangers are available at \$1.00 list each. To order, use same Cat. No. as shown above for End Closer, except change second letter from "E" to "H". Example: UH 145.

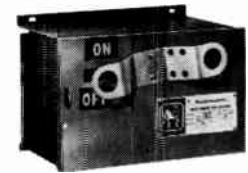
The Above Items Are Subject to 50% Discount

I-T-E BUS PLUGS
For XL-U, XL, BD, LO-X Plug-In Bus Duct

CIRCUIT BREAKER†—Floor-Operable

Breaker Frame	AC Volts	Rating Amperes	List Price With Breaker	3 POLE				3 PHASE, 4 WIRE				
				Enclosure Only				Enclosure Only				
				Cat. No.†				Cat. No.				
				XL	XL-U‡	BD, LO-X Plug-In	List Price	XL	XL-U‡	BD, LO-X Plug-In	List Price	
E	240	15-50 70-100	\$95. 115.					\$107. 127.				
EH	480	15-50 70-100	120. 134.	XLEH3100	U1C3100	BDEH3100	\$53.	132. 146.	XLEH4100	U1C4100	BDEH4100	\$65.
EF	600	15-50 70-100	132. 149.					144. 161.				
FJ		70-225	330.	XLFJ3225	U4C3225	BDFJ3225	114.	353.	XLFJ4225	U4C4225	BDFJ4225	137.
JJ		250-400	680.					715.				
JKL		70-225 250-400	571. 717.	XLJK3400	U6C3400	BDJK3400	305.	606. 752.	XLJK4400	U6C4400	BDJK4400*	340.
KM		500-600 700-800	975. 1185.	XLKM3800	U8C3800	BDKM3800	320.	1021. 1231.	XLKM4800	U8C4800	BDKM4800	366.

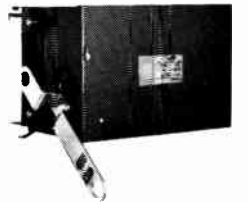
Circuit-Breaker Bus Plugs



FUSIBLE VACU-BREAK SWITCH—Floor-Operable

Volts	Rating Amperes	3 POLE						3 PHASE, 4 WIRE						
		Horsepower Ratings, AC		Cat. No.				List Price	Horsepower Ratings, AC		Cat. No.			
		Std. (NEC)	Max. (Time Delay)	XL	XL-U	BD, LO-X Plug-In	Std. (NEC)		Max. (Time Delay)	XL	XL-U	BD, LO-X Plug-In		
240 AC	30	3	7½	XLVB321	UV321	BOS14321	\$58.	3	10	XLVB421N	UV421	BOS16421	\$68.	
	60	7½	15	XLVB322	UV322	BOS14322	62.	7½	20	XLVB422N	UV422	BOS16422	72.	
	100	15	30	XLVB323	UV323	BOS14323	92.	15	30	XLVB423N	UV423	BOS16423	102.	
250 DC	200	25	60	XLVB324	UV324	BOS14324	160.	25	60	XLVB424N	UV424	BOS16424	180.	
	400	50	100	XLVB325	UV325	BOS14325	396.	50	100	XLVB425N	UV425	BOS16425*	427.	
	600	75	100	XLVB326	UV326	BOS14326	550.	75	100	XLVB426N	UV426	BOS16426*	602.	
600 AC	30	7½	20	XLVB351	UV361	BOS14351	62.	5**	15**	XLVB451N	UV461	BOS16451	72.	
	160	15	50	XLVB352	UV362	BOS14352	66.	15**	30**	XLVB452N	UV462	BOS16452	76.	
	100	30	75	XLVB353	UV363	BOS14353	95.	25**	60**	XLVB453N	UV463	BOS16453	110.	
	200	60	100	XLVB354	UV364	BOS14354	168.	50**	100**	XLVB454N	UV464	BOS16454	189.	
	400	100	—	XLVB355	UV365	BOS14355	396.	100**	—	XLVB455N	UV465	BOS16455*	427.	
	600	—	—	XLVB356	UV366	BOS14356	550.	—	—	XLVB456N	UV466	BOS16456*	602.	

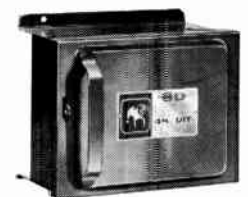
Fusible Vacu-Break Switch Bus Plugs



FUSIBLE SWITCH—Door-Operated

Volts	Rating Amperes	3 POLE						3 PHASE, 4 WIRE						
		Horsepower Ratings, AC		Cat. No.				List Price	Horsepower Ratings, AC		Cat. No.			
		Std. (NEC)	Max. (Time Delay)	XL	XL-U‡	BD, LO-X Plug-In	Std. (NEC)		Max. (Time Delay)	XL	XL-U‡	BD, LO-X Plug-In		
240 AC 250 DC	30	3	7½	XLP321	UP321	BP321	\$43.	3	7½	XLP421N	UP421	BP421	\$54.	
	60	7½	15	XLP322	UP322	BP322	47.	7½	15	XLP422N	UP422	BP422	58.	
	100	15	30	XLP323	UP323	BP323	61.	15	15	XLP423N	UP423	BP423	71.	
600 AC	30	7½	—	XLP351	UP361	BP351	46.	5**	—	XLP451N	UP461	BP451	57.	
	60	15	—	XLP352	UP362	BP352	49.	15**	—	XLP452N	UP462	BP452	60.	
	100	30	—	XLP353	UP363	BP353	69.	25**	—	XLP453N	UP463	BP453	79.	

Fusible Switch Bus Plugs



† Grounding Finger—When required for any XL-U plug, must be specified by adding Suffix G to plug Cat. No. Add \$10.00 List to price.
 * When BD duct capacity exceeds 400A for aluminum or 600A for copper, capacity must be specified to obtain proper number and arrangement of neutral fingers.
 ** 480-volt ratings.
 † Enclosures available from stock. When ordering circuit-breaker bus plugs complete with breaker, factory-installed, allow time for assembly and SPECIFY Enclosure, Frame Size, Poles and Ampere Rating. Example: One U1C3100—EH—3P—70A—Factory-Assembled.
 ‡ Consult I-T-E sales office for availability.
 CLASS J FUSES—Adaptor kits available for converting switches to Class J fuses. See Accessories table for prices.

The Above Items Are Subject to 50% Discount

I-T-E BUS PLUGS

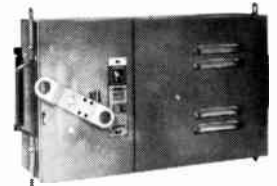
For XL-U, XL, BD, LO-X Plug-In Bus Duct

STARTER OR CONTACTOR BUS PLUGS

CIRCUIT BREAKER DISCONNECT

NEMA Size	Voltage	Max. H.P.	Cat. No.			List Price	Control Trans. List Price
			XL-U	XL	BD, LO-X Plug-in		
0	240	2	UA31B24C	XLEH310050	BCD31001450	\$241.	\$45.
		3	UA31B24D				
	480	3	UA31B48C				
		5	UA31B48D				
1	240	5	UA31C24D	XLEH310051	BCD31001451	250.	45.
		7½	UA31C24E				
	480	7½	UA31C48D				
		10	UA31C48D				
2	240	10	UA31D24E	XLEH310052	BCD31001452	338.	63.
		15	UA31D24F				
	480	15	UA31D48E				
		25	UA31D48F				

Capacitor Bus Plug



VACU-BREAK FUSIBLE—SWITCH DISCONNECT

NEMA Size	Switch Size	Voltage	Max. H.P. AC	Cat. No.			List Price	Control Trans. List Price
				XL-U	XL	BD, LO-X Plug-in		
0	30A	240	3	UA30B243	XLVB32150	BOS1432150	\$230.	\$45.
		480	5	UA30B483	XLVB35150	BOS1435150		
1	30A	240	7½	UA30C243	XLVB32151	BOS1432151	241.	45.
				UA30C246	XLVB32251	BOS1432251		
	60A	480	10	UA30C483	XLVB35151	BOS1435151		
				UA30C486	XLVB35251	BOS1435251		
2	60A	240	15	UA30D246	XLVB32252	BOS1432252	309.	63.
				UA30D241	XLVB32352	BOS1432352		
	100A	480	25	UA30D486	XLVB35252	BOS1435252		
				UA30D481	XLVB35352	BOS1435352		

Ground-Detector and Potentializer Bus Plug



CAPACITOR

Capacitor KVA	Rating—Amperes		240 Volt AC, 60 Cycle				480 Volt AC, 60 Cycle			
	240 Volt	480 Volt	Cat. No.			List Price	Cat. No.			List Price
			XL	XL-U	BD, LO-X Plug-In		XL	XL-U	BD, LO-X Plug-In	

CIRCUIT-BREAKER DISCONNECT

5.0	35	15	XLBC3205	UBC3205	CBC33524	\$757.	XLBC3405	UBC3405	CBC31544	\$664.
7.5	50	—	XLBC3207	UBC3207	CBC35025	916.	—	—	—	—
10.0	—	35	—	—	—	—	XLBC3410	UBC3410	CBC33546	819.
15.0	—	50	—	—	—	—	XLBC3415	UBC3415	CBC35047	896.

VACU-BREAK FUSIBLE-SWITCH DISCONNECT

5.0	60	XLVC3205	UVC3205	COS3124	695.	XLVC3405	UVC3405	COS3144	505.
7.5		XLVC3207	UVC3207	COS3225	855.	—	—	—	—
10.0		—	—	—	—	XLVC3410	UVC3410	COS3146	664.
15.0		—	—	—	—	XLVC3415	UVC3415	COS3247	737.

SPECIAL BUS PLUGS

Description	Cat. No.			List Price
	XL	XL-U	BD, LO-X Plug-In	
Ground Detector and Potentializer—For 2- or 3-pole 240- and 480-volt a-c service	XLGR314	UPGR314	PGR6314	\$78.
Transformer—For 10 KVA rating. Furnish 1-phase current of reduced voltage	♦	♦	♦	♦

♦ Consult I-T-E sales office.

ACCESSORIES

Description	Cat. No.	List Price
Channel Spacers—Must be used with Bus Plugs or Plug-In Branch-Run Adaptors mounted on 600-, 800- or 1000-ampere ABD duct or on 800- or 1000-ampere 8DP duct	—	—
ON-OFF Bus-Plug Stickers—Pressure-sensitive. Per Pair	W-47185	\$30
J Fuse Adaptor Kits—For field installation. Per Plug	—	15.00
30-400 Ampere, 2 or 3 Pole	—	46.00
600 Ampere, 2 or 3 Pole	—	—

SHIPPING WEIGHTS—Pounds

FOR CIRCUIT-BREAKER BUS PLUGS ONLY

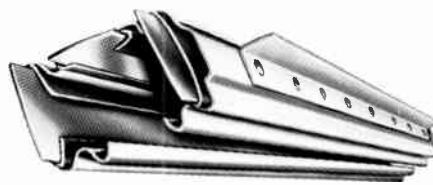
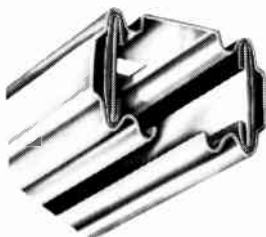
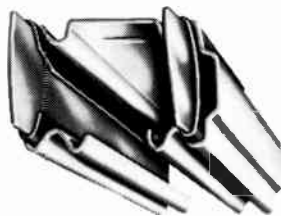
Breaker Frame	Rating Amperes	3 POLE				3 PHASE, 4 WIRE			
		Enclosure Only		Complete Assembly		Enclosure Only		Complete Assembly	
		XL-U, XL	BD, LO-X Plug-In	XL-U, XL	BD, LO-X Plug-In	XL-U, XL	BD, LO-X Plug-In	XL-U, XL	BD, LO-X Plug-In
E, EH, EF	15-100	12	14	13	19	13	15	14	20
FJ	70-225	41	27	51	37	45	28	55	38
JJ	250-400	90	35	102	57	95	36	107	58
JKL	70-225	90	35	102	57	95	36	107	58
JKL	250-400	95	39	117	61	100	40	122	62
KM	500-800	140	79	175	114	147	80	182	115

FOR FUSIBLE-SWITCH BUS PLUGS ONLY

Switch Rating Amperes	3 POLE				3 PHASE, 4 WIRE			
	XL-U, XL		BD, LO-X Plug-In		XL-U, XL		BD, LO-X Plug-In	
	Prefix UV, XLVB	Prefix UP, XLP	Prefix BOS	Prefix BP	Prefix UV, XLVB	Prefix UP, XLP	Prefix BOS	Prefix BP
30, 60	17	11	15	14	19	12	12	15
100	17	11	18	17	19	12	18	19
200	36	—	34	—	38	—	36	—
400	165	—	111	—	170	—	112	—
600	165	—	120	—	170	—	121	—

The Above Items Are Subject to 50% Discount

I-T-E TROLLEY-DUCT SYSTEMS



250 VOLT-2 WIRE

20, 50 AMPERE

125/250 VOLT-1 PHASE, 3 WIRE

50 AMPERE

Description	Cat. No.	List Price	Std. Pkg.	Ship. Wgt. Lb./Std. Pkg.
DUCT SECTIONS				
20 Ampere—10 ft.	D2210	\$10.00	10	50
20 Ampere—5 ft.	D2205	6.00		25
50 Ampere—10 ft.	D710	13.00		60
50 Ampere—5 ft.	D705	7.00		30
COUPLINGS				
Plain	C710	2.00	10	5
Trolley Entrance	TC711	5.00	20	18
FEED-IN DEVICES				
End Cap	PEP250	3.50	5	2½
Center Box	FCB712	10.50	6	24
End Box	EFB712	7.00	6	21
END CAP				
Standard	TEC710	1.25	10	3
HANGERS				
Messenger Cable (1¼" Hooks)	H210-2	.40	50	6¼
Messenger Cable (3¼" Hooks)	H210-4	.40	50	9
Messenger Cable Rad	H210-31	.20	100	12
Standard Surface	H710-0	.20	100	4½
Rad	H711	.40	50	4½
TWISTOUT PLUGS				
Terminal Receptacle w/a Card Clamp, for 3 Blade Equipment Grounding Cap—125 V.	TPG712	2.50	10	3
Receptacle w/a Card Clamp—125 V.	RPG723	2.50		2
Receptacle w/a Card Clamp—125 V.	RPG713	2.00		2
Card Clamp (Far use with RPG723 and RPG713 Receptacles)	CC700	.50		1
TROLLEYS				
Terminal Receptacle—125 V.	TTG712	5.00	10	3½
Heavy Duty	RTG712	5.00	10	3½
	TTG714	13.50	1	½
OUTLET BOXES				
Twistout Trolley	PBG711	5.00	5	6
	TBG711	8.00		
FIXTURE AND WEIGHT SUPPORTS				
Standard Quick Fixture Hanger	FH700	1.50	100	30
Feed-In Quick Fixture Hanger—Side Contact	FPH720S	4.00	100	30
Heavy Duty Weight Support	WS710B	.50	50	3½
Special Weight Support	WS710BX	.80	50	3½
RECEPTACLES (For Use With Outlet Boxes)				
Fustat (3½ to 6¼ Amps.—125 V.)	RB212	1.50	20	3
Fustat (7 to 14 Amps.—125 V.)	RB213			
Edison Base Fuse	RB714			
3-Prong Grounding	RB715			
RECEPTACLE (For Use With TPG712 Trolley)				
3-Prong Grounding	RP700	1.50	20	3
SLOT CLOSER				
Standard Rubber	SC710	.10/ft.	200 ft.	10

Description	Cat. No.	List Price	Std. Pkg.	Ship. Wgt. Lb./Std. Pkg.
DUCT SECTIONS				
10 ft.	D710-3	\$19.50	8	67
5 ft.	D705-3	12.50		34
COUPLING				
Plain	C710-3	3.00	10	5
FEED-IN DEVICES				
Center Box	FCB712-3	13.50	6	24
End Box	EFB712-3	10.50		22
END CAP				
Standard	TEC710	1.25	10	3
HANGERS				
Messenger Cable Rad	H210-31	.20	100	12
Standard Surface	H710-03	.30	50	3
Messenger Cable (1¼" Hooks)	H710-23	.50	50	7
Messenger Cable (3¼" Hooks)	H710-43	.50	50	9
Rad	H711-3	.50	50	5
TWISTOUT PLUGS				
Terminal—Tap Contact w/Card Clamp	TPG712-3T	3.00		
Terminal—Side Contact w/Card Clamp	TPG712-3S	3.00		
Terminal—Top Contact w/Card Clamp—250 V.	TPG722-3T	3.50		
Receptacle—Top Contact w/Card Clamp—125 V.	RPG712-3T	3.00	5	2
Receptacle—Side Contact w/Card Clamp—125 V.	RPG712-3S	3.00		
Receptacle—Tap Contact w/a Card Clamp—125 V.	RPG713-3T	2.50		
Receptacle—Side Contact w/a Card Clamp—125 V.	RPG713-3S	2.50		
Receptacle—Side Contact w/a Card Clamp, for 3 Blade Equipment Grounding Cap—125 V.	RPG723-3S	3.00		
Receptacle—Tap Contact w/a Card Clamp, for 3 Blade Equipment Grounding Cap—125 V.	RPG723-3T			
Card Clamp (Far use with RPG713-3T, RPG713-3S, RPG723-3T and RPG723-3S Receptacles)	CC700	.50	10	1
OUTLET BOXES				
Twistout—Side Contact	PBG711-3S	6.00	5	6
Twistout—Top Contact	PBG711-3T			
FIXTURE AND WEIGHT SUPPORTS				
Standard Quick Fixture Hanger	FH700	1.50	100	30
Feed-In Quick Fixture Hanger—Side Contact	FPH720S	4.00	100	30
Feed-In Quick Fixture Hanger—Tap Contact	FPH720T	4.00	100	30
Heavy Duty Weight Support	WS710B	.50	50	3½
Special Weight Support	WS710BX	.80	50	3½
RECEPTACLES (For Use With Outlet Boxes)				
Fustat (3½ to 6¼ Amps.—125 V.)	RB212	1.50	20	3
Fustat (7 to 14 Amps.—125 V.)	RB213			
Edison Base Fuse	RB714			
3-Prong Grounding	RB715			
RECEPTACLE (For Use With TPG712-3T, TPG712-3S Plugs)				
3-Prong Grounding	RP700	1.50	20	3
SLOT CLOSER				
Standard Rubber	SC710	.10/ft.	200 ft.	10

The Above Items Are Subject to 50% Discount

I-T-E TROLLEY-DUCT SYSTEMS



Straight Duct Section

**100/150 AMPERE TYPE
600 VOLT A-C, 250 VOLT D-C**

Description	Cat. No.	List Price
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STANDARD STRAIGHT DUCT SECTIONS

2 Pole, 10 Foot	TD210	\$98.00
3 Pole, 10 Foot	TD310	109.00
Expansion Section, 10 Foot— 2 or 3 Pole	—	411.00

DROP-OUT SECTIONS

2 Pole, 10 Foot	TD210R	114.00
2 Pole, 10 Foot—Sectionalizing	TD210RS	151.00
3 Pole, 10 Foot	TD310R	125.00
3 Pole, 10 Foot—Sectionalizing	TD310RS	162.00

BUSLESS DUCT AND DROP-OUT SECTIONS

10 Foot Duct	TD010	63.00
10 Foot Drop-Out	TD010R	79.00

90° CURVED DUCT SECTIONS

2 Foot, 6 Inch Radius Curve	TD26C	262.00
3 Foot Radius Curve	TD30C	274.00
3 Foot, 6 Inch Radius Curve	TD36C	286.00
4 Foot Radius Curve	TD40C	299.00
4 Foot, 6 Inch Radius Curve	TD46C	312.00
5 Foot, Radius Curve	TD50C	312.00
5 Foot, 6 Inch Radius Curve	TD56C	324.00
6 Foot Radius Curve	TD60C	337.00
6 Foot, 6 Inch Radius Curve	TD66C	349.00
7 Foot Radius Curve	TD70C	349.00
7 Foot, 6 Inch Radius Curve	TD76C	362.00

DUCT FITTINGS

(Complete Assemblies)

Hanger—2 and 3 Pole	TDH3	8.00
Intermediate Hanger	TRH31	2.00
End Plate	TRB23	5.00
Feed-In Adaptor—2 and 3 Pole	TDF3	14.00
Cover for Standard Hanger	W43771	.60
Standard Hanger—With Cover	W43564	5.40
Bus Connector (12 to Corton)	W43101	12.00 (Corton)
Feed-In Bus Connector for Top Bus— One Required (2 to Corton)	W43100	4.00 (Corton)
Feed-In Bus Connector for Side Busses—Two Required (4 to Corton)	W43099	10.80 (Corton)



Standard Trolley

FUSIBLE TROLLEYS

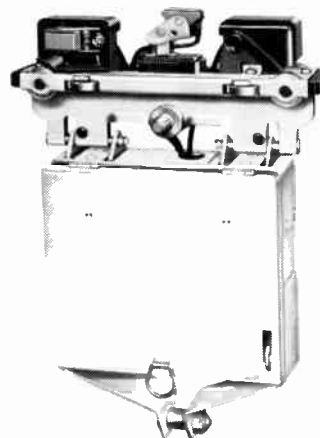
Type	Poles	Cat. No.	List Price
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TROLLEYS WITH NO RECEPTACLES

30 AMPERE		250 VOLT DC	
Standard	2 3	T13103 T33103	\$67. 77.
Heavy Duty	2 3	T13103-1 T33103-1	75. 90.
Roller	2 3	T13103-2 T33103-2	67. 77.
Button	2 3	T13203 T33203	88. 102.
30 AMPERE		600 VOLT AC	
Standard	2 3	T13104 T33104	90. 105.
Heavy Duty	2 3	T13104-1 T33104-1	98. 117.
Roller	2 3	T13104-2 T33104-2	90. 105.
Button	2 3	T13204 T33204	110. 131.

TROLLEYS WITH 20A RECEPTACLES

20 AMPERE		250 VOLT DC	
Standard	2 3	T13105 T33105	90. 100.
Heavy Duty	2 3	T13105-1 T33105-1	98. 112.
Roller	2 3	T13105-2 T33105-2	90. 100.
Button	2 3	T13205 T33205	110. 125.
20 AMPERE		480 VOLT AC	
Button	2 3	T13206 T33206	133. 154.



Heavy-Duty Trolley
With Box Tool Hanger

NON-FUSIBLE TROLLEYS

Type	Poles	Maximum Amperes	Cat. No.	List Price
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TROLLEYS ONLY

Standard	2 3	30	T131 T331	\$34. 39.
Curve	2 3	60	T134 T334	71. 80.
Heavy Duty	2 3	60	TR131-1 TR331-1	42. 52.
Roller	2 3	20	TR131-2 TR331-2	34. 39.
Transfer	2 3	30	T25 T35	121. 129.
Button	2 3	60	T132 T332	55. 64.
Detachable	3	10	DT333	52.

TROLLEYS WITH PLAIN TOOL HANGERS

Standard	2 3	30	T13101 T33101	51. 55.
Heavy Duty	2 3	60	T13101-1 T33101-1	59. 67.
Roller	2 3	20	T13101-2 T33101-2	51. 55.
Button	2 3	60	T13201 T33201	71. 80.

TROLLEYS WITH BOX TOOL HANGERS

Standard	2 3	30	T13102 T33102	56. 61.
Heavy Duty	2 3	60	T13102-1 T33102-1	64. 73.
Roller	2 3	20	T13102-2 T33102-2	56. 61.
Button	2 3	60	T13202 T33202	76. 86.

HEAVY DUTY

Horsepower Rating	Poles	Cat. No.	List Price
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TROLLEYS WITH NO RECEPTACLES

30 AMPERE		250 VOLT DC	
1½	2 3	T13207 T33207	\$153. 162.
30 AMPERE		480 VOLT AC	
2	2 3	T13208 T33208	153. 162.

TROLLEYS WITH 20A RECEPTACLES

20 AMPERE		250 VOLT DC	
1½	2 3	T13209 T33209	175. 185.
20 AMPERE		480 VOLT AC	
2	2 3	T13210 T33210	175. 185.

The Above Items Are Subject to 50% Discount

FEEDRAIL

Russell & Stoll Division, Midland-Ross Corp.

FEEDRAIL® is the modern "Trolley Busway System" and "Crane and Hoist Electrification System" of distributing electric power. Sturdy pre-fabricated track sections, enclosing copper bus bar conductors can be joined together to form runs of any length, straight or curved. Trolleys with positive pressured contacts roll freely in the track and act as electric power outlets which can be moved to any point along the track run.

The FEEDRAIL® Systems — engineered and constructed by specialists who devote their time exclusively to trolley busway electrification systems — are available in 60 ampere continuous service, 90 ampere intermittent service; 100 ampere continuous service, 150 ampere intermittent service; 225; 375 and 500 ampere capacities in 2- or 3-poles. Superior to ordinary wiring methods in safety, convenience and adaptability, they provide a dependable source of power for cranes and hoists, production and assembly lines, test lines, movable machinery, machine tools, business machines, lighting, etc. Feedrail Systems are readily installed without any special tools.

Also available are standard 4- and 5-pole Control Circuit Systems for cranes, hoists, moving machines, machine tools, etc., having track sections rated at 60 amperes continuous service and trolleys rated at 15 amperes.

FEEDRAIL "60" TRACK

FEEDRAIL "60" is listed by Underwriters' Laboratories, Inc. as a TROLLEY BUSWAY SYSTEM rated at 60 amperes continuous service and as a CRANE AND HOIST ELECTRIFICATION SYSTEM rated at 60 amperes continuous service and 90 amperes intermittent service (50% OFF — 50% ON).

300 V. — A.C. or D.C.

STRAIGHT TRACK SECTIONS



10'-0" Lengths Complete with Bus Bars

Track	Two Pole		Three Pole	
	Cat. No.	Each	Cat. No.	Each
Plain	FRS-200	\$25.20	FRS-100	\$28.80
Door	FRS-201	29.40	FRS-101	33.00

5'-0" Lengths Complete with Bus Bars

Plain	FRS-200-5	\$16.20	FRS-100-5	\$18.00
Door	FRS-201-5	20.40	FRS-101-5	22.20

NOTE: It is recommended that a minimum of one door section for insertion and removal of trolleys be used with every five sections of plain track.

For sections less than 10'-0" long, consider fractions of a foot as an extra foot and multiply this length by the per foot list price of the corresponding 10'-0" STRAIGHT and add \$7.20.

10'-0" Lengths Without Bus Bars

Track	Cat. No.	Each
Plain	FRS-130	\$17.40
Door	FRS-131	21.60

5'-0" Lengths Without Bus Bars

Plain	FRS-130-5	\$12.00
Door	FRS-131-5	16.20

For sections without bus bars less than 10'-0" long, consider fractions of a foot as an extra foot and multiply this length by the per foot list price of the corresponding 10'-0" STRAIGHT without bus bars and add \$5.40.

Add \$7.20 for each feed box installed in a track section.

FEEDRAIL "60"

Russell & Stoll Division, Midland-Ross Corp.

TRACK SECTIONS — Continued

60 Amp. — 300 V. — A.C. or D.C.
SECTIONALIZING TRACK SECTIONS



10'-0" Lengths Complete with Bus Bars

Track	Two Pole		Three Pole	
	Cat. No.	Each	Cat. No.	Each
Plain	FRS-247	\$32.40	FRS-147	\$36.00
Door	FRS-248	36.60	FRS-148	40.20

5'-0" Lengths Complete with Bus Bars

Plain	FRS-247-5	\$23.40	FRS-147-5	\$25.20
Door	FRS-248-5	27.60	FRS-148-5	29.40

For sections less than 10'-0" long, consider fractions of a foot as an extra foot and multiply this length by the per foot list price of the corresponding 10'-0" STRAIGHT and add \$14.40.

FEEDRAIL "60" TRANSFER TRACK SECTIONS



ONE FLARED END

10'-0" Lengths Complete with Bus Bars

Track	Two Pole		Three Pole	
	Cat. No.	Each	Cat. No.	Each
Plain	FRS-225	\$42.00	FRS-125	\$45.60
Door	FRS-226	46.20	FRS-126	49.80

5'-0" Lengths Complete with Bus Bars

Plain	FRS-225-5	\$33.00	FRS-125-5	\$34.80
Door	FRS-226-5	37.20	FRS-126-5	39.00

TWO FLARED ENDS

10'-0" Lengths Complete with Bus Bars
With Center Feed Box FRS-103 Installed

Track	Cat. No.	Each	Cat. No.	Each
Plain	FRS-295	\$66.00	FRS-195	\$69.60
Door	FRS-296	70.20	FRS-196	73.80

5'-0" Lengths Complete with Bus Bars

Plain	FRS-295-5	\$57.00	FRS-195-5	\$58.80
Door	FRS-296-5	61.20	FRS-196-5	69.00

For sections less than 10'-0" long, consider fractions of a foot as an extra foot and multiply this length by the per foot list price of the corresponding 10'-0" STRAIGHT and add \$24.00 for one flared end and \$40.80 for two flared ends. Add \$7.20 for each feed box in a transfer section.

10'-0" Lengths Without Bus Bars

Track	One Flared End		Two Flared Ends	
	Cat. No.	Each	Cat. No.	Each
Plain	FRS-132	\$28.80	FRS-142	\$40.20
Door	FRS-133	33.00	FRS-143	44.40

5'-0" Lengths Without Bus Bars

Plain	FRS-132-5	\$23.40	FRS-142-5	\$34.80
Door	FRS-133-5	27.60	FRS-143-5	39.00

For sections without bus bars less than 10'-0" long, consider fractions of a foot as an extra foot and multiply this length by the per foot list price of the corresponding 10'-0" STRAIGHT without bus bars and add \$16.80 for one flared end and \$28.20 for two flared ends.

CLEANING TOOLS

Dust Remover	FRS-28	\$9.00
Bus Bar Cleaner.....	FRS-77	9.00

FEDRAIL "60" ACCESSORIES

Russell & Stoll Division, Midland-Ross Corp.
Description Cat. No. Each

Coupling Set.....	FRS-102	\$.99
Center Feed Set.....	FRS-103	3.96
Track Hanger Set.....	FRS-105	.42
Track Hanger Set.....	FRS-115	.54
Track Hanger (For Tie Rods).....	FRS-150	.72
End Feed Set.....	FRS-106	4.80
Low Level End Feed Set.....	FRS-149	13.20
Dead End Cap.....	FRS-107	1.80
Messenger Cable Track Hanger.....	FRS-108	.81
Junction Box.....	FRS-110	4.80
Clevis Support.....	FR -105	.90
Coupling plates—curved track to straight track.....	FRS-116	5.10
Coupling plates—curved track to curved track.....	FRS-117	5.10
Center Feed Set—between any two curved track sections.....	FRS-137	13.80
Center Feed Set—between straight and curved track sections.....	FRS-138	13.80
End Feed Set—curved track.....	FRS-139	16.20
Dead End Cap— for curved track.....	FRS-140	7.20
Fixture Hanger.....	FRS-111	.42

CURVED TRACK SECTIONS



300 V. — A.C. or D.C.

All Curved Sections have 4 Inches
of Straight Track additional on
each end of Coupling

90° Curves Complete with Bus Bars

Radius	Two Pole		Three Pole	
	Cat. No.	Each	Cat. No.	Each
2'-6"	FRS-212	\$93.00	FRS-112	\$93.00
3'-0"	FRS-218	99.00	FRS-118	99.00
3'-6"	FRS-213	105.00	FRS-113	105.00
4'-0"	FRS-219	111.00	FRS-119	111.00
4'-6"	FRS-214	117.00	FRS-114	117.00
5'-0"	FRS-220	117.00	FRS-120	117.00
5'-6"	FRS-221	123.00	FRS-121	123.00
6'-0"	FRS-222	129.00	FRS-122	129.00
6'-6"	FRS-223	135.00	FRS-123	135.00

For each curved track section having radii or degree of arc other than those listed, figure lineal length of arc at \$5.40 Net per foot and add \$126.00 Net each special fabrication charge. Fractions of a foot to be figured as a foot. Minimum radii 2'-6".

FEDRAIL "60" PLUG-IN JACKS

15 Amps. — 300 V. — A.C. or D.C.

No. FRS-40 — Non-fusible. Two pole. Use with standard 4" octagonal outlet box. Complete with 6" long leads. Each\$2.70

No. FRS-41 — Non-fusible. Complete with 2-pole convenience receptacle and lug for supporting lighting fixtures. (125 V.) Each\$6.90

No. FRS-42 — (10 Amp.) Fusible. Complete with 2-pole convenience receptacle and lug for supporting lighting fixtures. (125 V.) Will accommodate 2—3AG glass fuses. Each\$10.80

No. FRS-43 — Non-fusible. 2-pole. Self contained unit of jack, cast aluminum junction box and cable clamp. Each\$4.74

No. FRS-45 — Non-fusible. 3-pole. Use with standard 4" octagonal outlet box. Complete with 6" long leads. Each\$3.06

No. FRS-53 — Non-fusible. 3-pole. Self-contained unit of jack, cast aluminum junction box and cable clamp. Each\$5.10

FEDRAIL "60" TROLLEYS

Russell & Stoll Division, Midland-Ross Corp.
15 Amps. — 300 V. — A.C. or D.C.



Fused Type



Non-Fused Type

For straight or curved track without transfer points, with radius of 3'-6" or over.

Non-Fusible with 1/2-Inch Nipple

Poles	Types of Contact	Cat. No.	Price
2	Bronze Brush	FRS-21	\$4.35
2	Copper Graphite Roller	FRS-31	4.80
2	Copper Graphite Brush	FRS-24	5.85
3	Bronze Brush	FRS-1	4.65
3	Copper Graphite Roller	FRS-11	5.40
3	Copper Graphite Brush	FRS-4	6.90

Non-Fusible with Cable Grip

2	Bronze Brush	FRS-22	4.65
2	Copper Graphite Roller	FRS-32	5.10
2	Copper Graphite Brush	FRS-26	6.15
3	Bronze Brush	FRS-2	4.95
3	Copper Graphite Roller	FRS-12	5.70
3	Copper Graphite Brush	FRS-6	7.20

Non-Fusible with Tool Hanger

2	Bronze Brush	FRS-23	5.25
2	Copper Graphite Roller	FRS-33	5.70
2	Copper Graphite Brush	FRS-27	6.75
3	Bronze Brush	FRS-3	5.55
3	Copper Graphite Roller	FRS-13	6.30
3	Copper Graphite Brush	FRS-7	7.80

Fusible with Cabinet (250 V.)

2	Bronze Brush	FRS-29	17.55
2	Copper Graphite Roller	FRS-39	18.00
2	Copper Graphite Brush	FRS-30	19.05
3	Bronze Brush	FRS-9	18.45
3	Copper Graphite Roller	FRS-19	19.20
3	Copper Graphite Brush	FRS-10	20.70

20 Amps. — 300 V. A.C. or D.C.

With Copper Graphite Brush Contacts

For curved or straight track without transfer points, with radius of 2'-6" or more. Recommended for budget hoists, light tonnage monorails, automatic cloth spreaders, machine tools, etc.

Poles	Description	Cat. No.	Price
2	Non-fusible—with Box	FRS-94	\$13.80
2	Fusible (250V.)—with Cabinet	FRS-96	27.00
3	Non-fusible—with Box	FRS-84	15.00
3	Fusible (250V.)—with Cabinet	FRS-86	28.80

Transfer Type

For straight or curved track with transfer points.

2	Non-fusible—with Box	FRS-64	21.90
2	Fusible (250V.)—with Cabinet	FRS-63	35.10
3	Non-fusible—with Box	FRS-74	23.10
3	Fusible (250V.)—with Cabinet	FRS-73	36.90

Note — Where motor propelled hoists are used on runs which include transfer points, two trolleys in tandem must be used to insure continuous current while crossing the transfer points.

Note — Fuses are not included with fusible trolleys.

FEEDRAIL "100"

Russell & Stoll Division, Midland-Ross Corp.

FEEDRAIL "100" is listed by Underwriters' Laboratories, Inc. as a TROLLEY BUSWAY SYSTEM rated at 100 amperes continuous service and as a CRANE AND HOIST ELECTRIFICATION SYSTEM rated at 100 amperes continuous service and 150 amperes intermittent service (50% OFF — 50% ON).

TRACK SECTIONS
600 V. A.C. — 250 V. D.C.



10'-0" Lengths Complete with Bus Bars

Track	Cat. No.	Two Pole	Each	Cat. No.	Three Pole	Each
STRAIGHT TRACK						
Plain	FR-200		\$ 57.00	FR-100		\$ 63.00
Door	FR-201		66.60	FR-101		72.60
TRANSFER TRACK — One Flared End — Offset Bus Bar Ends						
Plain	FR-285		85.80	FR-185		91.80
Door	FR-286		95.40	FR-186		101.40
TRANSFER TRACK — One Flared End — Plain Bus Bar Ends						
Plain	FR-287		85.80	FR-187		91.80
Door	FR-288		95.40	FR-188		101.40
TRANSFER TRACK — Two Flared Ends — With Feed Box						
Plain	FR-295		129.60	FR-195		135.60
Door	FR-296		139.20	FR-196		145.20
SECTIONALIZING TRACK — With Internal Insulators						
Plain	FR-247		76.80	FR-147		82.80
Door	FR-248		86.40	FR-148		92.40
EXPANSION TRACK — With Jumpers						
Plain	FR-255		226.80	FR-155		252.00

10'-0" Lengths Complete without Bus Bars

Track	Cat. No.	Each	Track	Cat. No.	Each
STRAIGHT TRACK					
Plain	FR-130	\$36.60	Door	FR-131	\$46.20
TRANSFER TRACK — One Flared End					
Plain	FR-132	\$56.40	Door	FR-133	\$66.00
TRANSFER TRACK — Two Flared Ends					
Plain	FR-142	\$76.20	Door	FR-143	\$85.80

Track Sections Less than 10'-0" Long

For each section less than 10'-0" long, consider fractions of a foot as an extra foot and multiply the length of the section required by the per foot list price of the corresponding 10'-0" straight section and add for —

STRAIGHT with Bus Bars.....	add	\$15.60
STRAIGHT without Bus Bars.....	add	\$ 7.80
TRANSFER with Bus Bars — one flared end.....	add	\$44.40
TRANSFER with Bus Bars — two flared ends.....	add	\$72.60
TRANSFER without Bus Bars — one flared end.....	add	\$27.60
TRANSFER without Bus Bars — two flared ends.....	add	\$47.40
SECTIONALIZING with internal insulators.....	add	\$35.40

CURVED TRACK

90° Curves Complete with Bus Bars

Radius	Cat. No.	Two Pole	Each	Cat. No.	Three Pole	Each
2'-6"	FR-215		\$152.40	FR-115		\$152.40
3'-0"	FR-213		159.60	FR-113		159.60
3'-6"	FR-216		166.80	FR-116		166.80
4'-0"	FR-217		174.00	FR-117		174.00
4'-6"	FR-214		181.80	FR-114		181.80
5'-0"	FR-218		181.80	FR-118		181.80
5'-6"	FR-211		189.00	FR-111		189.00
6'-0"	FR-219		196.20	FR-119		196.20
6'-6"	FR-221		203.40	FR-121		203.40
7'-0"	FR-220		203.40	FR-120		203.40
7'-6"	FR-212		210.60	FR-112		210.60

SPECIAL CURVED TRACK

For each curved track section having radii or degree of arc other than those listed, figure lineal length of arc at \$7.20 per foot and add \$150.00 each for set-up and engineering charge. Fractions of a foot to be figured as a foot. Minimum radii 2'-6".

Add \$15.00 for each feed box installed in a track section.

ACCESSORIES

	Cat. No.	Price
Coupling Plate Set	FR-102	\$ 4.80
Center Feed Box	FR-103	9.00
Clevis Support	FR-105	.90
Dead End Cap	FR-107	3.60
End Feed Box Reversible	FR-109	9.00
End Feed Box Reversible with Cable Grip	FR-109G	13.20
Transfer Point Hanger Set	FR-124	4.20
Auxiliary Track Hanger Set	FR-140	.90

NOTE — One Cat. FR-102 Coupling Plate Set is furnished with each section of track.

CLEANING TOOLS

Dust Remover	FR-76	\$34.80
Bus Bar Cleaner	FR-77	38.40

TROLLEYS WITHOUT CABINETS

Non-Fusible — with Cable Clamps



Standard Type

Standard Type — For use with straight and curved track with radius of 5'-6" or over.

Poles	Volts	Amps.	Contact	Cat. No.	Each
2	600 AC-250 DC	20	Roller	FR-34	\$19.80
2	600 AC-250 DC	30	Brush	FR-90	24.60
3	600 AC-250 DC	20	Roller	FR-24	22.80
3	600 AC-250 DC	30	Brush	FR-80	30.00



Short Radius "C" Type

Heavy Duty "D" Type

Short Radius "C" Type — for use with straight and curved track — Minimum radius 2'-6".

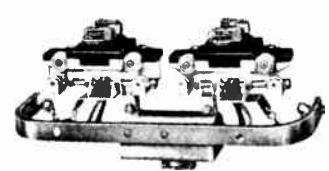
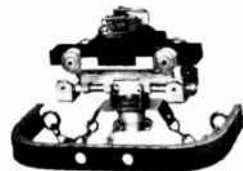
Poles	Volts	Amps.	Contact	Cat. No.	Each
2	600 AC-250 DC	20	Roller	FR-36	\$19.80
2	600 AC-250 DC	30	Brush	FR-91	24.60
3	600 AC-250 DC	20	Roller	FR-26	22.80
3	600 AC-250 DC	30	Brush	FR-81	30.00

Heavy Duty "D" Type — for high amperage on straight and curved track — Minimum radius of 2'-6".

2	600 AC-250 DC	40	Roller	FR-37	\$40.80
2	600 AC-250 DC	60	Brush	FR-92*	50.40
3	600 AC-250 DC	40	Roller	FR-27	46.80
3	600 AC-250 DC	60	Brush	FR-82	61.20

TRANSFER TYPE TROLLEYS

Non-Fusible — 30 Amps.



Plain Type

Duplex Type

Plain Type — for straight or curved track with transfer points. minimum radius 2'-6"

Poles	220 A.C.	440 A.C.	550 A.C.	230 D.C.	Contact	Cat. No.	Each
2	4 HP	.....	.....	5HP	Brush	FR-64	\$37.20
3	7½HP	15HP	20HP	.....	Brush	FR-74	42.60

Duplex Type — for straight or curved track with transfer points. minimum radius 2'-6".

2	4 HP	.....	.....	5HP	Brush	FR-64D	84.60
3	7½HP	15HP	20HP	.....	Brush	FR-74D	95.40

Note — For Trolleys with 20 or 30 Amp. Receptacles, similar to above, consult equipment catalog.

FEEDRAIL "100"

Russell & Stoll Division, Midland-Ross Corp.

TROLLEYS WITH BOX TYPE CABINETS

Non-Fusible without Receptacles — with Cable Clamps

Amps.	Volts	Poles	Contact	Cat. No.	Each
20	600 AC-250 DC	2	Roller	FR-31	\$32.40
30	600 AC-250 DC	2	Roller	FR-94	37.20
20	600 AC-250 DC	3	Roller	FR-41	35.40
30	600 AC-250 DC	3	Brush	FR-84	42.60

Fusible — Without Receptacles — with Cable Clamps

20	250 AC-250 DC	2	Roller	*FR-29	\$37.80
20	250 AC-250 DC	3	Roller	*FR-9	42.60
20	250 AC-250 DC	2	Roller	FR-39	39.00
20	250 AC-250 DC	3	Roller	FR-19	45.00
30	250 AC-250 DC	2	Brush	*FR-96	42.60
30	250 AC-250 DC	3	Brush	*FR-86	49.80
30	250 AC-250 DC	2	Brush	FR-97	43.80
30	250 AC-250 DC	3	Brush	FR-87	52.20
20	600 AC-250 DC	2	Roller	*FR-23	52.20
20	600 AC-250 DC	3	Roller	*FR-43	61.20
30	600 AC-250 DC	2	Brush	*FR-98	57.00
30	600 AC-250 DC	3	Brush	*FR-88	68.40

Fusible — with Receptacle

20	600 AC-250 DC	2	Roller	*FR-32	\$65.40
20	600 AC-250 DC	3	Roller	*FR-2	74.40
20	600 AC-250 DC	2	Brush	*FR-99	70.20
20	600 AC-250 DC	3	Brush	*FR-89	81.60
20	600 AC-250 DC	3	Roller	*FR-302	76.80
30	600 AC-250 DC	3	Brush	*FR-389	84.00

*These trolleys are equipped with open type fuse blocks. All other fusible trolleys are equipped with Feedrail Corporation dead front fuse blocks. Fuses are not included with fusible Trolleys.



With Box Type Cabinet



With Hanger Type Cabinet

TROLLEYS WITH HANGER TYPE CABINETS

Non-Fusible — Without Receptacles — with Cable Clamps

Amps.	Volts	Poles	Contact	Cat. No.	Each
20	600 AC-250 DC	2	Roller	FR-35	\$28.80
20	600 AC-250 DC	3	Roller	FR-5	31.80
30	600 AC-250 DC	2	Brush	FR-95	33.60
30	600 AC-250 DC	3	Brush	FR-85	39.00

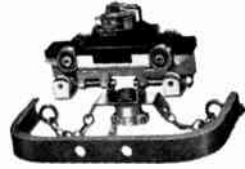
Non-Fusible — with Ever-lok Receptacles

20	600 AC-250 DC	2	Roller	FR-33	\$42.00
20	600 AC-250 DC	3	Roller	FR-3	45.00
20	600 AC-250 DC	3	Roller	FR-303	47.40
20	600 AC-250 DC	2	Brush	FR-93	46.80
20	600 AC-250 DC	3	Brush	FR-83	52.20
30	600 AC-250 DC	3	Brush	FR-383	54.60

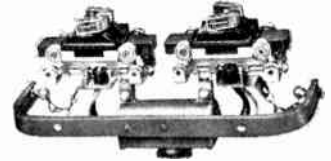
Note — "C" or "D" type trolleys must be used with curved track sections of less than 5'-6" radius. All trolleys listed can be furnished in "C" or "D" type by adding the suffix C or D to catalog number of the trolley selected. The rating of "D" type trolleys when furnished with receptacles or dead front fuse blocks is limited to the rating of those devices. For prices on "C" or "D" type trolleys with cabinets consult us. Fuses are not included with fusible trolleys.

CRANE AND HOIST TYPE TROLLEYS

600 V. — A.C. or 250 V. — D.C.



Short Radius "C" Type



Heavy-Duty Type

Non-Fusible — 30 Amps.

Plain Type for straight or curved track without transfer points, with radius of 5'-6" or over.

Poles	Volts				Contact	Cat. No.	Each
	220 A.C.	440 A.C.	550 A.C.	230 D.C.			
2	4 HP	.....	.....	5HP	Brush	FR-66	\$28.80
3	7½HP	15HP	20HP	.....	Brush	FR-6	34.20

Short Radius "C" Type — for straight or curved track without transfer points, minimum radius of 2'-6".

2	4 HP	.....	.....	5HP	Brush	FR-66C	\$28.80
3	7½HP	15HP	20HP	.....	Brush	FR-6C	34.20

Non-Fusible — 60 Amps.

Heavy-Duty "D" Type — for high amperage on straight or curved track without transfer points, minimum radius 2'-6".

Poles	Volts				Contact	Cat. No.	Each
	220 A.C.	440 A.C.	550 A.C.	230 D.C.			
2	8HP	.....	.....	10HP	Brush	FR-66D	\$67.80
3	15HP	30HP	40HP	.....	Brush	FR-6D	78.60

Non-Fusible — 100 Amps.

Special Service Type — for straight track without transfer points.

2	10HP	.....	.....	10HP	Brush	FR-65	\$109.80
3	25HP	50HP	60HP	.....	Brush	FR-75	130.80

Note — For Trolleys with 20 or 30 Amp. Receptacles, similar to above, consult equipment catalog.



100 Amp. Special Service



With Bevelled Type Cabinet

TROLLEYS WITH BEVELLED TYPE CABINETS

Non-Fusible — with Receptacles

Volts: 600 A.C. — 250 D.C.

Amps.	Poles	Contact	Cat. No.	Each
20	2	Roller	FR-38	\$45.60
20	3	Roller	FR-12	48.60
20	2	Brush	FR-62	50.40
20	3	Brush	FR-72	55.80
20	3	Roller	FR-312	51.00
30	3	Brush	FR-372	58.20

Fusible — with Receptacles
Volts: 250 A.C. — 250 D.C.

20	2	Roller	FR-30	\$52.20
20	3	Roller	FR-10	58.20
20	2	Brush	FR-60	57.00
20	3	Brush	FR-70	65.40
20	3	Roller	FR-310	60.60
30	3	Brush	FR-370	67.80

PORTER CURRENT CONDUCTOR COLLECTOR SYSTEMS

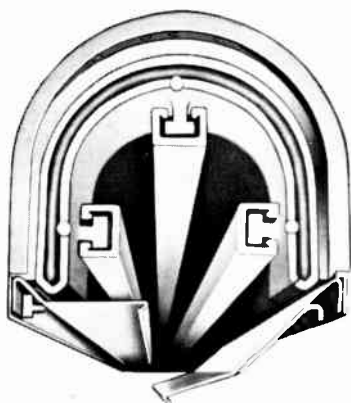
POWER CRANES, CROSS TRAVEL AND SPECIAL APPLICATION

H-BAR CONDUCTOR SYSTEM



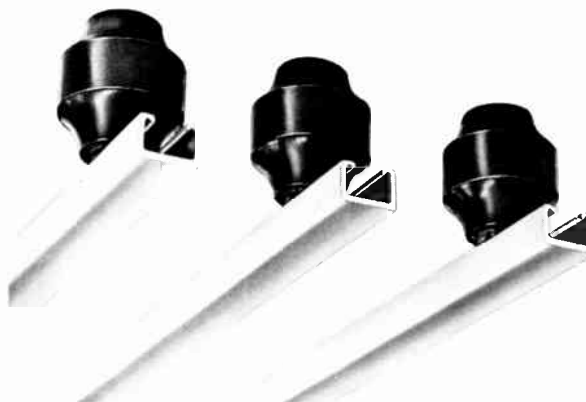
H-Bar Conductor System provides power for cranes and movable equipment requiring a constant source of electrical energy. System ratings are 500, 750, 1000, 1250, 1500, 1750, 2000, 2500 and 3000 amperes. Larger systems up to 10,000 amperes available on special request. Can be used for both A.C. and D.C. voltage applications. Due to variation of each installation the aluminum conductor sections, hanger supports, insulators, anchor supports, expansion joints, collectors, and/or special components must be determined from plans and specifications. Recommended systems are offered based on particular problem at a quoted price.

LEC-TROL-FEED



Lec-Trol-Feed System supplies power for 600 volt A.C. or 300 volt D.C. applications. Conductors are supplied in either bronze or aluminum or copper with respective amperage ratings of 250, 350 and 450 amps. Conductors are fully enclosed in an aluminum steel housing with overlapping bottom safety cover which prevents accidental contact with current. The system is made up of factory-assembled units for easy, time-saving installation in the field.

C-BAR CONDUCTOR SYSTEM



C-Bar Conductor System is a medium capacity system. It is compact, rugged, economical and usable for all types of A.C. and D.C. current collection applications. C-Bar Conductor systems power main runway cranes, cross travel on cranes, control circuits and special installations. The entire system is supplied as a complete package with insulators, hangers, conductors, collectors ready to mount on building or structural supports. Available only in Bronze at 350 amperes, Aluminum at 450 amperes and Copper at 550 amperes. Systems are suggested from plans and specifications of the user and prices quoted based on recommendations.

INVERTED V-BAR CONDUCTOR SYSTEM



Inverted V-Bar Conductor System is an aluminum system ranging from 500 to 6,000 amperes. Compactness of conductor and collector design allows installation with reduced spacing between conductor which results in lower impedance on an A.C. system and better voltage regulation characteristics. Good voltage regulation insures adequate voltage for maximum crane speeds and load capacities, thus it reduces the possibility of overload. Systems are complete with conductors, hangers, splice joints, anchors, feeders, expansion joints, isolating joints and collectors. Send us your layout and problems and we will provide recommendations and prices.

PORTER RED-POLY INSULATORS



Red-Poly Insulators for electrical systems up to 5,000 volts are available in 34 sizes. Its self cleaning configuration, flame retardance, arc resistance ability, mechanical strength to withstand high shock and vibration allows almost unrestricted application within the rated voltage. Designed to meet NEMA Class B requirements red poly insulators are available in two material grades. Standard Grade #1 is an electrical grade, corrosion resistant, fiberglass reinforced polyester having a maximum service temperature continuous at 300°F (Intermittent is 400°). Premium Grade #2 is an electrical grade, fiberglass reinforced polyester having exceptional corrosion resistance to acidic solutions and outstanding weather resistant characteristics. Premium Grade #2 has a maximum service temperature continuous at 350°F (Intermittent is 450°F).

2" DIAMETER

Grade	Standard Red Price	Premium Blue Price
"H" Dim. (Inch)		
1½	\$2.10	\$2.40
1⅝	2.20	2.50
1¾	2.30	2.60
1⅞	2.40	2.70
2	2.50	2.80
2⅛	2.60	2.90
2¼	2.70	3.00
2⅝	2.80	3.10
2⅞	2.90	3.20

To Add Petticoat Increase List **1.30** **1.50**
 Standard Carton **50 units**

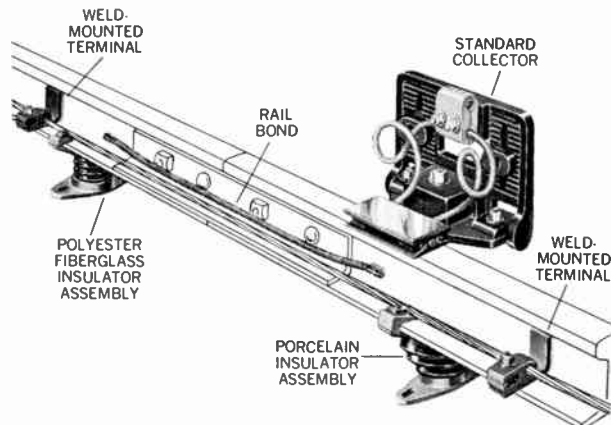
2½" DIAMETER

Grade	Standard Red Price	Premium Blue Price
"H" Dim. (Inch)		
2⅝	\$3.20	\$3.60
2¾	3.90	4.30
2⅞	4.30	4.80
3	4.70	5.20
3⅛	5.10	5.60
3¼	5.60	6.10
3⅝	6.00	6.50
3⅞	6.30	6.80

To Add Petticoat Increase List **2.30** **2.60**
 Standard Carton **24 units**

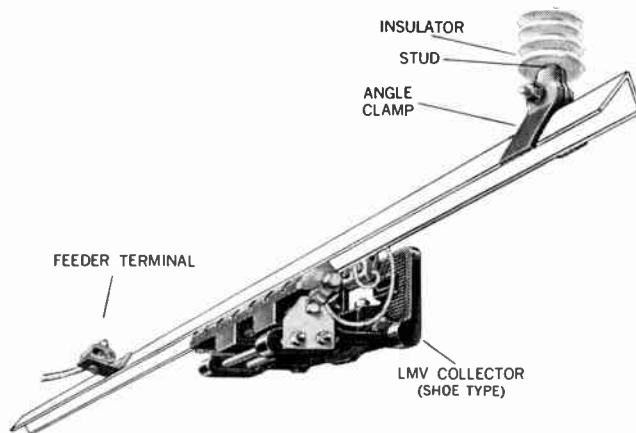
PORTER CURRENT COLLECTING COMPONENTS

FOR TROLLEY WIRE, STEEL ANGLE AND STEEL RAIL SYSTEMS



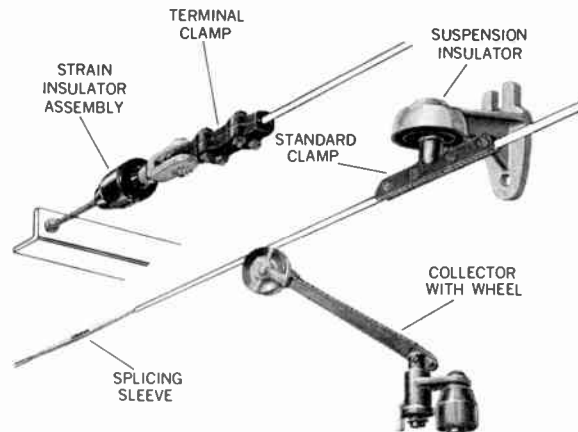
Crane Steel Rail Collector

Shown are typical components for a crane steel rail collector system that are available.



Crane Steel Angle Collector

Shown are typical components for an inverted V steel angle crane collector system that are available.



Crane Trolley Wire Collector

Shown are typical components for a trolley wire crane collector system that are available.

Delta-Star also manufactures a complete line of components for steel angle, steel rail, and "T" Bar systems.

INSUL-8® 8-BAR ELECTRIFICATION SYSTEMS

INSULATED CONDUCTOR-BARS

Furnished in standard lengths with connecting devices and insulating covers. Special lengths and pre-fabricated curves to order. Special conductor-bar materials, laminates, and platings to order.

NOTE: Hanger Clamps and End Covers are not included in these assemblies and must be ordered separately. Connector Tool (Cat. No. 8300-NC); furnished at no charge on all pin-connected bars as follows: One tool for orders up to 500 lineal feet, two tools from 500 to 2000 feet, and one additional tool for each 2000 feet thereafter, up to a maximum of five tools.



Pin Connected



Clamp Connected

Ampere Ratings to 600V, or less*

Conductor	Intermittent Service	Continuous Service
Galvanized Steel	135	90
Stainless Clad Copper Laminate	240	160
Copper Steel Laminate.....	270	200
Electrolytic Copper	450	300
Solid Copper**		500

*Based on one phase at 3" standard spacing.

**Furnished with clamp connectors.

**Clamp Connected
Catalog Number and Price Per Foot**

Conductor Material	Length	With Rigid PVC Covers and Joint Covers				With High Heat Covers and Joint Covers		Connectors
		For standard Mount Each	For Lateral Mount† Each	For Standard or Lateral Mount Each	For Standard or Lateral Mount Each			
Galvanized Steel	10'	10-83FS	\$1.15	10L-83FS	\$1.15	10-83SS	\$2.50	Pin Type
	5'	5-83FS	1.15	5L-83FS	1.15	5-83SS	2.50	
Stainless Clad Copper Laminate	10'	10-83FG	3.85	10L-83FG	3.85	10-83SG	5.20	Pin† Type
	5'	5-83FG	3.85	5L-83FG	3.85	5-83SG	5.20	
Copper Steel Laminate	10'	10-83FC	1.95	10L-83FC	1.95	10-83SC	3.30	Pin† Type
	5'	5-83FC	1.95	5L-83FC	1.95	5-83SC	3.30	
Electrolytic Copper	10'	10-83FJ	2.60	10L-83FJ	2.60	10-83SJ	3.95	Pin† Type
	5'	5-83FJ	2.60	5L-83FJ	2.60	5-83SJ	3.95	
Solid Copper	20'	20-83FK	4.85	20L-83FK	4.85	.....	.....	Clamp Type
	10'	.....	.....	.....	.....	10-83SK	6.10	
	5'	.....	.....	.....	.....	5-83SK	6.10	

†Cover Clips are furnished for each 1' of run.

‡Joint Keepers are furnished for each joint.

See Graybar for data on Radi-8-Bar® conductor systems to prevent icing of conductor-bars.

Special Lengths (to order from the factory)

Identify by using the following Catalog Numbers, and state exact lengths required.

Standard Mount

N-83FS or FG, FC, FJ, FK, SS, SG, SC, SJ, SK

Lateral Mount

NL-83FS or FG, FC, FJ, FK

Extra Per Foot**\$0.50**

Curved Lengths (to order from the factory)

Identify by using the following Catalog Numbers, and state exact length and radius required for each conductor.

NOTE: Curved lengths are formed with 6" tangents unless otherwise specified. Consult factory for special requirements and curves with High-Heat Covers.

Standard Mount

C-83FS or FG, FC, FJ, FK

*Trade-Mark.

Extra Per Foot

\$1.00

INSUL-8® ELECTRIFICATION SYSTEMS

CONDUCTOR BAR FITTINGS



HANGER CLAMPS

Cat. No.	Type	Each
8300-L	Plated Steel	\$0.50
8300-LE	Epoxy Coated Steel.....	.60
8300-LP	Stainless Steel	2.20



END COVER

Cat. No.	Type	Each
83RF	For All 8-Bar Conductors With Rigid PVC Covers	\$0.75



HANGER CLAMPS WITH INSULATOR 8300-M

Cat. No.	Type	Each
8300-LM	Plated Clamp With Ins. 8300-M.....	\$1.80
8300-LEM	Epoxy Coated Clamp With Insulator 8300-8300-M	1.90
8300-LPM	Stainless Steel Clamp With Insulator 8300-M	4.00



POWERFEEDS

Cat. No.	Description	Each
83FS-FD (90 Amp.)	Steel Clamp Type. Complete assembly of clamp and PVC case for steel systems only.....	\$1.75
83FK-FD (200 Amp.)	Copper Clamp Type. Complete assembly of clamp and PVC case for systems with feed wires of #8-1/0	3.00

COLLECTORS

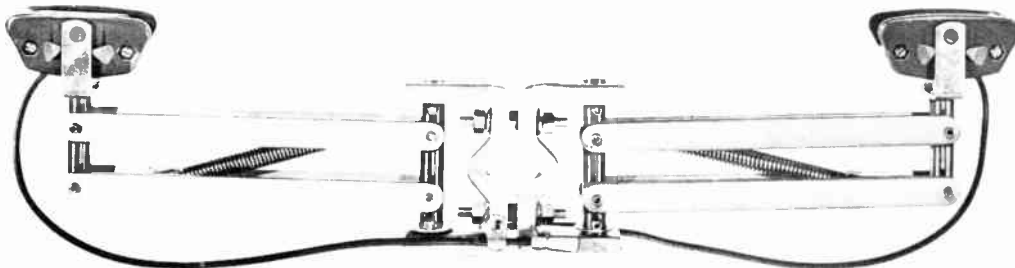


"B" Head, "C" Base Types

For straight runs, curves and discontinuous circuits on crane controls and monorails of 600v, or less, as described. Each collector head is rated at 30 amp.

Single head available in 60 and 100 amp. capacities.

Cat. No.	Description	Each
B03C	Standard mount, long stroke, for continuous systems and horizontal curves to 18" min. radius.....	\$20.00



Tandem heads available in 120 and 200 amp. capacities.

NOTE: (a) Systems rated to 4000 amps. available.
(b) Radiant heated conductor systems available for icing conditions.

Cat. No.	Description	Each
D-B03C	Standard tandem mount, long, stroke, for continuous systems....	\$45.00

"SCOTCHCAST" BRAND COMMUNICATION KITS NOS. 89-D1, 89-D2, 89-D3, 89-C1, 89-C2

Complete kits for splicing or blocking and end sealing plastic insulated communication and control cables. Excellent moisture-proof insulation with pre-measured, two-part mix-in-the-bag epoxy resin and transparent snap together mold bodies.



Product Number	No. of Pairs	Cable O.D.	Packaging		Price Per Kit
			Kits Per Box	Kits Per Case	
89-D1	1-4	1/4" - 5/8"	1	10	\$4.40
89-D2	5-13	5/8" - 1"	1	10	6.65
89-D3	14-26	1" - 1-7/16"	1	10	11.38
89-C1	End Sealing Kits	1/4" - 3/4"	1	10	8.72
89-C2		3/4" - 1-7/16"	1	10	10.55

"SCOTCHCAST" BRAND ELECTRICAL INSULATING RESIN NOS. 11 AND 12

Easy to use pre-measured, two-part epoxy resin packaged in the unique "UNIPAK" Brand container for splicing, blocking and sealing communications cable. Excellent moisture sealing and shock resistant properties. Use No. 11 on paper lead cable and No. 12 rubber or synthetic insulated cable.



Product Number	"Unipak" Brand Container		Packaging		Price Per Box
	Size	Fluid Ozs.	Per Box	Per Case	
Resin No. 11	A	2 3/4	1	10	\$1.50
	B	6 1/4	1	10	2.57
	C	12 1/2	1	10	4.80
Resin No. 12	A	2 3/4	1	10	1.58
	B	6 1/4	1	10	2.65
	C	12 1/2	1	10	4.91

"SCOTCHCAST" BRAND RESIN PRESSURE MATERIALS NOS. P-1, P-5, P-3, P-4, P-11, P-9, E-4, E-12

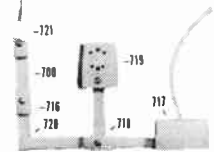
Provides excellent electrical and mechanical properties of epoxy resin for rubber, synthetic and lead shielded or unshielded cable splices up to 7.5KV. Easy to use—wrap and inject for complete moisture-proof encapsulation. Items needed are sold individually due to universal application.



Product Number	Description	Per Box	Packaging		Price Per Box
			Boxes Per Ctn.	Boxes Per Case	
P-1	Injection fitting	10	5	5	\$ 4.30
P-5	Nozzle for E4 & E-12 Gun	10	5	5	2.12
P-3	Spacer Tape	1	10	50	1.61
P-4	Restrictor Tape	1	10	50	.88
P-11	Communication Cable Shield Connector	100	10	10	31.00
P-9	Channeling Pins	100	10	10	3.86
E-4	Resin Pressure Gun	1			16.10
E-12	Resin Pressure Gun	1			5.73

"SCOTCHFLEX" BRAND FLAT CABLE SYSTEM NO. 700

A 4 conductor No. 26 AWG flat cable and accessories with pressure sensitive adhesive backing. Goes on any surface—tile, metal, wood, stone; no holes to drill; no stripping or soldering; neat attractive appearance—can be painted or hidden.



Prod. No.	Description	Packaging		Price
		Per Box	Boxes Per Case	
700	Flat Cable* (100 ft. rolls)	1	10	\$7.68 Roll
717	Terminal*	1	50	1.74 Each
718	Tap Connector*	10	5	.79 Each
719	Jack*	1	50	1.88 Each
720	Corner Cover*	10	50	1.11 Box
721	Transition*	10	5	1.17 Each
E-14	Hand Roller	1	10	1.70 Each
722	Plug*	1	50	1.03 Each
724	Cable Cover (15 ft. Rolls)	1	10	3.98 Roll

*Available in Ivory or Gray

"SCOTCHFLEX" BRAND ADHESIVE CABLE CLIPS NOS. 708, 710, 712, 713

"SCOTCHFLEX" Brand Adhesive Cable Clips are used to keep desks, floors and tables free from loose sagging telephone cable. "SCOTCHFLEX" Brand Cable Clips are backed with a foamy pressure sensitive adhesive that sticks aggressively to almost any surface. Easy to install. No screw holes. Neat in appearance.



Prod. No.	Cable O.D. Range	Qty. per Box	Boxes per Case	Price Per Box
708	11/64" - 15/64"	10	5	\$.61
710	15/64" - 5/16"	10	5	.71
712	19/64" - 13/32"	10	5	.94
713	25/64" - 1/2"	10	5	1.08

"SCOTCHFLEX" BRAND ADHESIVE MOUNTING PLATES NOS. 735, 736, 738, 739, 740, 741, 742

Install anywhere to almost any surface quickly and easily. Available in a wide variety to accommodate all types of telephone terminals and connector blocks. Quick to install. No holes to drill. No cumbersome installation equipment.



Cat. No.	for use with	Cat. No.	for use with
735	WE42A, Murdock No. 39	740	Midwec DX1033, Allen GB-3291, SE700A
736	AE15000, D-150206	741	WE66E-25, R66E3-25, SE66E3-25
738	WE168E and 168F	742	WE-149A, SE149A, Wiremold 57P
739	WE44A or SE44A		

Cat No.	Per Box	Boxes per Case	Lbs. per Case	Price
735	10	5	4	\$.46 Each
736	10	5	4	.46 Each
738	10	5	17	1.13 Each
739	10	5	5	.55 Each
740	10	5	10	.58 Each
741	10	5	12	.54 Each
742	10	5	8	.44 Each

HYSOL HYSEAL® COMMUNICATION SPLICES

**WITH OR WITHOUT VALVES FOR PRESSURE AND NON-PRESSURE APPLICATIONS
POSITIVE PROTECTION WITH EASY REENTRY**

HYSEAL Communication Splice Cases save time and reduce labor costs. The Posi-seal liner* serves as a built-in seal, eliminating inserts and grommets. Guarantees a positive seal at cable ends. The unique tapered ends provide precise fit and actually compensate for cable size variations. Inventories are reduced because 5 sizes can be used on cables ranging from 1/2" to 2 1/2" diameter. Non-pressurized cases are recommended for aerial, direct burial and vault applications at temperatures to 140°F. Pressurized cases are recommended for direct burial or manhole installations where temperatures will not exceed 90°F continuously. These flexible splice cases assure positive seals under vibration and cable flexing conditions.

*U.S. Patent 2,978,533



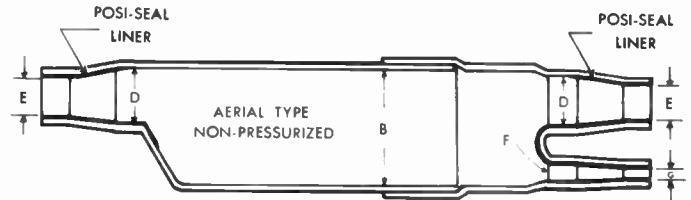
IN LINE



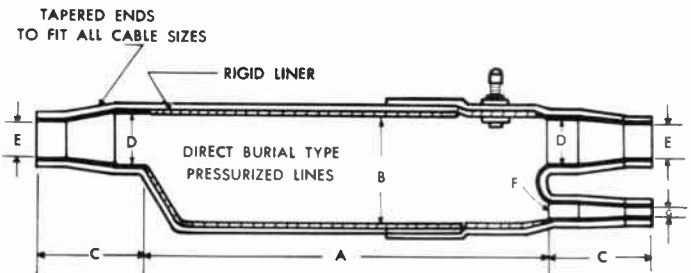
SINGLE BRANCH



DOUBLE BRANCH



PART NUMBER NON-PRESSURE	DESCRIPTION	DIMENSIONS							PRICES
		MAIN BODY					BRANCH		
		A	B	C	D	E	F	G	
CS 1270	In Line	12"	2 3/4"	4"	1"	1/2"	—	—	\$10.10
CS 1271	Single Branch	12"	2 3/4"	4"	1"	1/2"	1"	1/2"	10.80
CS 1272	Double Branch	12"	2 3/4"	4"	1"	1/2"	1"	1/2"	11.50
CS 1300	In Line	14"	3"	4"	1 1/4"	3/4"	—	—	11.10
CS 1301	Single Branch	14"	3"	4"	1 1/4"	3/4"	1"	1/2"	11.80
CS 1302	Double Branch	14"	3"	4"	1 1/4"	3/4"	1"	1/2"	12.45
CS 1350	In Line	14"	3 1/2"	4"	1 1/2"	1"	—	—	12.90
CS 1351	Single Branch	14"	3 1/2"	4"	1 1/2"	1"	1 1/4"	3/8"	13.55
CS 1352	Double Branch	14"	3 1/2"	4"	1 1/2"	1"	1 1/4"	3/8"	14.30
CS 1400	In Line	16"	4 1/4"	4 1/2"	2"	1 1/4"	—	—	16.80
CS 1401	Single Branch	16"	4 1/4"	4 1/2"	2"	1 1/4"	1 1/2"	3/4"	17.50
CS 1402	Double Branch	16"	4 1/4"	4 1/2"	2"	1 1/4"	1 1/2"	3/4"	18.30
CS 1500	In Line	16"	5"	4 1/2"	2 1/2"	1 1/2"	—	—	18.00
CS 1501	Single Branch	16"	5"	4 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	18.60
CS 1502	Double Branch	16"	5"	4 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	19.40



PART NUMBER WITH VALVE FOR PRESSURIZED LINES*	DESCRIPTION	DIMENSIONS							PRICES
		MAIN BODY					BRANCH		
		A	B	C	D	E	F	G	
CSV 1270	In Line	12"	2 3/4"	4"	1"	1/2"	—	—	\$14.60
CSV 1271	Single Branch	12"	2 3/4"	4"	1"	1/2"	1"	1/2"	15.20
CSV 1272	Double Branch	12"	2 3/4"	4"	1"	1/2"	1"	1/2"	16.20
CSV 1300	In Line	14"	3"	4"	1 1/4"	3/4"	—	—	15.95
CSV 1301	Single Branch	14"	3"	4"	1 1/4"	3/4"	1"	1/2"	16.65
CSV 1302	Double Branch	14"	3"	4"	1 1/4"	3/4"	1"	1/2"	17.30
CSV 1350	In Line	14"	3 1/2"	4"	1 1/2"	1"	—	—	17.75
CSV 1351	Single Branch	14"	3 1/2"	4"	1 1/2"	1"	1 1/4"	3/8"	18.85
CSV 1352	Double Branch	14"	3 1/2"	4"	1 1/2"	1"	1 1/4"	3/8"	19.30
CSV 1400	In Line	16"	4 1/4"	4 1/2"	2"	1 1/4"	—	—	21.60
CSV 1401	Single Branch	16"	4 1/4"	4 1/2"	2"	1 1/4"	1 1/2"	3/4"	22.40
CSV 1402	Double Branch	16"	4 1/4"	4 1/2"	2"	1 1/4"	1 1/2"	3/4"	23.20
CSV 1500	In Line	16"	5"	4 1/2"	2 1/2"	1 1/2"	—	—	23.05
CSV 1501	Single Branch	16"	5"	4 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	23.80
CSV 1502	Double Branch	16"	5"	4 1/2"	2 1/2"	1 1/2"	1 1/2"	3/4"	24.50

*Pressurized cases are not recommended where temperatures will exceed 90°F continuously.

PRICES ARE LESS IN CASE QUANTITIES.

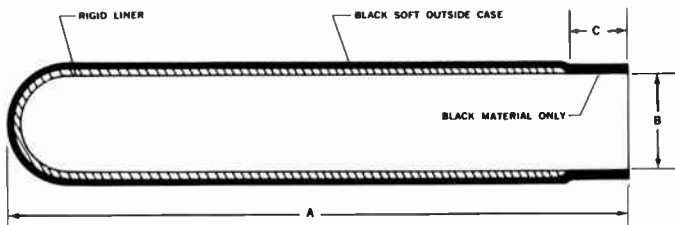
HYSOL HYSEAL® CABLE BUTT SPLICE CASES AND CABLE END CAPS

CABLE BUTT SPLICE CASES



**FAST
ECONOMICAL
ATTRACTIVE
EASY REENTRY**

HYSEAL Cable Butt Splice Cases replace unsightly taped splices. Save money by covering a splice in a fraction of the time it takes for taping. Reentry is quick and easy . . . simply loosen the stainless steel clamp and slide off. Eliminates hazards of personal injury and cable damage resulting from cutting open old-fashioned tape splices.



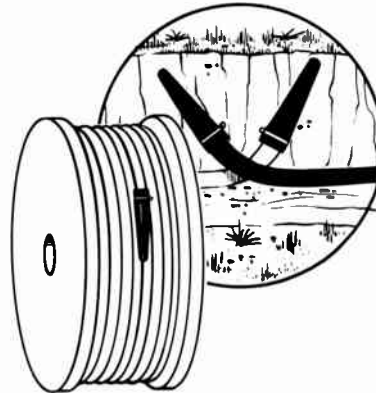
SPECIFICATION INFORMATION

PART NUMBER	A	B	C	PRICES
BC 11017	17"	1"	NO RIGID LINER	\$2.30 ea.
BC 12017	17"	2"	NO RIGID LINER	3.90 ea.
BC 12024	24"	2"	NO RIGID LINER	5.50 ea.
BC 13024	24"	3"	2"	6.20 ea.
BC 13030	30"	3"	3"	7.90 ea.
BC 14030	30"	4"	4"	11.40 ea.
BC 15030	30"	5"	4"	12.40 ea.
BC 16030	30"	6"	4"	13.10 ea.
BC 17030	30"	7"	4"	14.40 ea.

PRICES ARE LESS IN CASE QUANTITIES.

CABLE END CAPS

**PROTECT CABLES
FROM
DIRT AND MOISTURE**



HYSEAL Cable End Caps provide positive moistureproof, airtight seals on plastic, rubber or lead sheathed cable. Economical and easy to install . . . simply slip on cable until snug and tighten the stainless steel clamp. Use to seal reel ends, to maintain gas pressure during shipment or storage and in the field before splices are made. The tapered design of HYSEAL Cable End Caps provides a precise fit to compensate for cable size variations. Inventory is reduced because only 4 caps are necessary to seal cables from 3/8" to 4" in diameter. Patented Posi-Seal liner* serves as a self-sealing gasket to guarantee seal. Stainless steel clamps are adjustable for full diameter range of caps.

*U.S. Patent 2,978,533



Unique HYSEAL Cable End Caps with tapered design can be used on more cable sizes, providing precise fit to compensate for cable size variations.

NON-PRESSURIZED

Part No.	Cable Size	Dimension keyed to above sketches		PRICES
		A	B	
CC 11004	3/8" to 1"	4 1/2"	1"	\$.90 ea.
CC 12005	1" to 2"	5 1/4"	2"	1.05 ea.
CC 13006	2" to 3"	6 3/4"	3"	1.30 ea.
CC 14007	3" to 4"	7"	4"	3.60 ea.
CC 14010	3" to 4"	10"	4"	3.95 ea.

PRESSURIZED

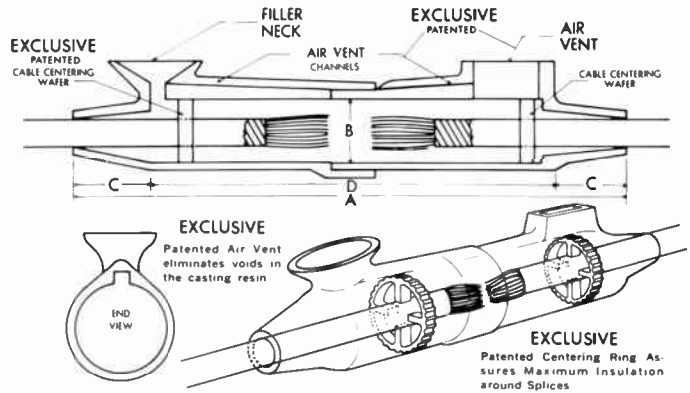
CCV 11004	3/8" to 1"	4 1/2"	1"	1.40 ea.
CCV 12005	1" to 2"	5 1/4"	2"	1.50 ea.
CCV 13006	2" to 3"	6 3/4"	3"	1.75 ea.
CCV 14007	3" to 4"	7"	4"	3.85 ea.
CCV 14010	3" to 4"	10"	4"	4.20 ea.

PRICES ARE LESS IN CASE QUANTITIES.

HYSOL HYSEAL® EPOXY SPLICE KITS

FOR SOLID ENCAPSULATION OF POWER AND COMMUNICATION SPLICES

HYSEAL® Epoxy Splice Kits* feature a new cable centering device that assures maximum insulation around the cable. New air vents eliminate air entrapment. Self-sealing tapered ends on the flexible case provide positive seal to cable contours without taping. Specially designed filling and ventilating spouts are an integral part of the case and eliminate leak-loss of encapsulating resin. They also provide a reserve of resin for cable penetration to assure that the case is completely filled and without voids. The encapsulating resin has a controlled exotherm (heat build-up through chemical reaction) that will not damage even the thinnest wall polyethylene insulation. Low viscosity permits easy mixing and greater cable penetration without air voids. Colored components and pre-measured packaging assures fool-proof mixing. A special cable jacket primer improves adhesion of the cable to the epoxy and eliminates moisture penetration. Recommended for up to 5 KV. [©] Patent No. 3-145,421



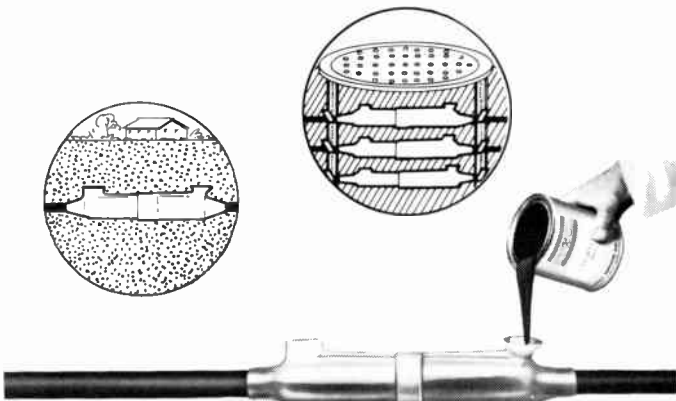
PART NUMBER		A	B	C	D	RANGE OF CABLE SIZE	PRICES	
WITHOUT PRIMER	WITH PRIMER						W/O PRIMER	W PRIMER
E 1100	E 1100-P	10"	1"	2"	6"	¼" to ¾"	\$3.45 ea.	\$4.50 ea.
E 1130	E 1130-P	14"	1½"	2½"	9"	½" to 1"	5.50 ea.	6.35 ea.
E 1200	E 1200-P	19"	2"	2½"	14"	1" to 1½"	8.50 ea.	9.75 ea.
E 1250	E 1250-P	20"	2½"	3"	14"	1½" to 2"	14.95 ea.	16.10 ea.
E 1300	E 1300-P	22"	3"	3½"	15"	2" to 2½"	17.95 ea.	18.70 ea.

REA APPROVED: E 1100-2 — Same as E 1100 except that the Kit includes a Shield Bonding Hardness. Prices are less on case quantities.

Characteristics of HYSEAL® Epoxy

Viscosity, mixture @ 79°F, cps	700 to 1380
Tensile strength, psi	3500 to 5450
Compressive strength, psi	12,000 to 14,000
Water absorption (24 hours), immersion, %	.36 to .41
Elongation, %	48 to 95
Shrinkage, cured @ R.T., %	.28 to .38
Izod impact, ft.-lb. per inch of notch	.29 to .35
Hardness, Shore D	62 to 89
Dielectric constant @ 86°F @ 100c	3.77 to 4.53
Dissipation factor @ 86°F @ 100c	.02 to .07
Volume resistivity @ 86°F, ohm-cm	Greater than 10 ¹⁴
Dielectric strength, volts per mil	Greater than 400
Shelf life (minimum from date of shipment)	1 year

Tests run in accordance with MIL-S-22266B



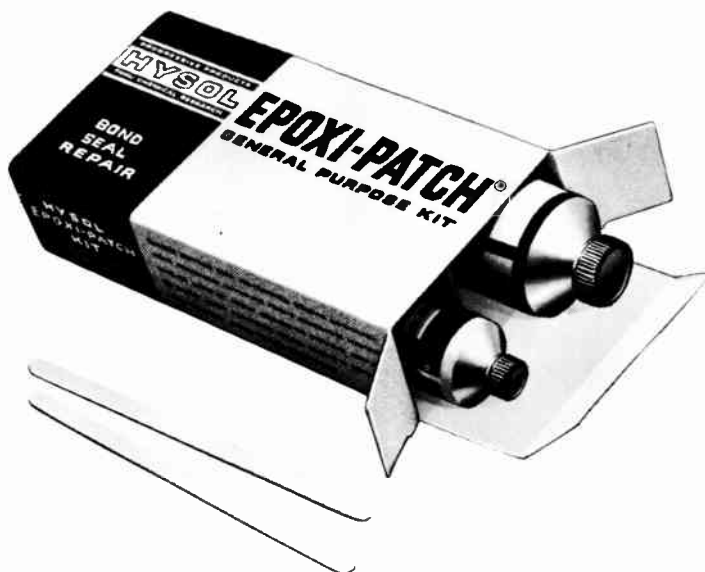
HYSOL EPOXI-PATCH® KITS

FOR BONDING, SEALING AND REPAIRING MOST MATERIALS

**MOLECULAR ACTION
ADHESIVE-SEALANT**

CATALOG NUMBER	DESCRIPTION	COLOR	PRICE
1C	GENERAL PURPOSE	WHITE	\$1.95 ea.
3X	SHOCK RESISTANT	DARK GREY	1.95 ea.
6C	ALUMINUM FILLED	GREY	1.95 ea.
73C	IRON FILLED	BLACK	1.95 ea.
38C	BRONZE FILLED	BRONZE	1.95 ea.
0266	HIGH STRENGTH	BROWN	2.95 ea.
0151	READING CLEAR	CLEAR	2.95 ea.
309	FAST CURE	GREY	2.95 ea.
CK1A	SMALL GENERAL PURPOSE	WHITE	1.20 ea.

PRICES ARE LESS IN CASE QUANTITIES



1C KITS AVAILABLE IN THESE STANDARD COLORS:

- | | | |
|-------------|------------------|-------------|
| 11C — BLACK | 65C — PINK | 75C — RED |
| 56C — WHITE | 70C — LIGHT BLUE | 0126 — BLUE |
| | 0127 — YELLOW | |

Other colors and packaging quoted on request.

EASY TO USE:

No critical weighing required • Only mix amount needed — no waste • 100% solids • Usable at once • No solvents — no fire hazard • Non-toxic after cure.

HUNDREDS OF USES:

BOND — aluminum, glass, iron, wood, ceramics, cement.

SEAL — pipes and vessels, bushings, seams, ducts, glass, motors.

REPAIR — printed circuits, storage tanks, porcelain and tile, metal equipment, plastics, tools, boats.



GENERAL ELECTRIC CABLE ACCESSORY PRODUCTS

TERMI-KIT® CABLE TERMINATION SYSTEM



The G-E Termi-Kit Cable Termination System contains all the materials, including pre-shaped pennants, for quick, uniform, low cost terminations on all solid dielectric shielded or URD power cables 5 KV through 35 KV. Materials are designed to function properly regardless of application tension or direction.

FOR ALL SHIELDED SOLID DIELECTRIC POWER CABLE (GROUNDED OR UNGROUNDED)

Kit No.	Cable Conductor Size	Service Condition	Price Per Kit
5-8KV 3 Terminations Per Kit (Silicone Sealed)			
3T-8-A/O	8 Awg-4/0 Awg	} Indoor or Outdoor }	\$18.50
3T-8-B/O	250 MCM-1000 MCM		
9-15KV 2 Terminations Per Kit (Silicone Sealed)			
2T-15TR	6 Awg-2/0 Awg	Indoor or Pad-mounted Transformer Enclosure†	\$16.90
9-15KV 3 Terminations Per Kit			
3T-15-A	4 Awg+2 Awg	Indoor‡	\$21.50
3T-15-B	1 Awg-250 MCM	Indoor§	25.90
3T-15-C	300 MCM-1000 MCM	Indoor¶	30.70
16-25KV 2 Terminations Per Kit (Silicone Sealed)			
2T-25-A	4 Awg-250 MCM	Indoor	\$43.90
2T-25-A/O	4 Awg-250 MCM	Outdoor	47.20
2T-25-B	300 MCM-1000 MCM	Indoor	50.60
2T-25-B/O	300 MCM-1000 MCM	Outdoor	64.90
26-35KV 2 Terminations Per Kit (Silicone Sealed)			
2T-35-A	4 Awg-250 MCM	Indoor	\$47.25
2T-35-A/O	4 Awg-250 MCM	Outdoor	65.20
2T-35-B	300 MCM-1000 MCM	Indoor	69.75
2T-35-B/O	300 MCM-1000 MCM	Outdoor	91.85

† Convertible to outdoor service with 1 roll Irrasil silicone rubber tape.
 ‡ Convertible to outdoor service with 3 rolls Irrasil silicone rubber tape.
 § Convertible to outdoor service with 4 rolls Irrasil silicone rubber tape.
 ¶ Convertible to outdoor service with 5 rolls Irrasil silicone rubber tape.

UNI-KIT™ CABLE SPLICING SYSTEM



With G.E.'s Uni-Kit Cable Splicing System anyone can complete both shielded and non-shielded splices in less than an hour. Uni-Kit components are pre-engineered for simple, sure and economical application on all makes and constructions of 0-15 KV solid dielectric cables. Each kit is complete to the proper non-conducting cleaning materials.

FOR ALL NONSHIELDED SOLID DIELECTRIC POWER CABLE

Kit No.	Cable Conductor Size	Price Per Kit
5KV 1 Straight Through Splice Kit		
SS-5-A	4 Awg-350 MCM	\$15.40
SS-5-B	400 MCM-1500 MCM	20.80

FOR ALL SHIELDED SOLID DIELECTRIC POWER CABLE (GROUNDED OR UNGROUNDED)

Kit No.	Cable Conductor Size	Price Per Kit
5-8KV 1 Straight Through Splice Per Kit		
SS-8-A	4 Awg-4/0 Awg	\$20.90
SS-8-B	250 MCM-1000 MCM	22.90
9-15KV 1 Straight Through Splice Per Kit		
SS-15-A	4 Awg+2 Awg	\$24.20
SS-15-B	1 Awg-250 MCM	27.50
SS-15-C	300 MCM-1000 MCM	36.30

IRRASIL® SILICONE TRACK RESISTANT COVER TAPE



Irrasil Silicone Track Resistant Cover Tape is the first silicone cover material offering a minimum-cost, thin-gauge insulation without adhesive. A Termi-Kit termination with an overwrap of Irrasil results in an outdoor termination that replaces a pothead at a saving of \$25 to \$45 in materials alone on each termination. Also cuts labor costs.

Product No.	Thickness in Inches	Width in Inches	Length in Feet	Price Per Roll*
42-005	0.015	3/4	30	\$4.00
	0.015	1	30	5.30

* Standard packages—12 rolls per carton, 48 rolls per case.

GENERAL ELECTRIC INSULATING MATERIALS
CABLE ACCESSORY PRODUCTS AND INSULATING PAINTS

HIGH-VOLTAGE SPLICING TAPES



Major utilities and contractors use 8380 High-voltage Splicing Tape on cable jobs through 15 KV at cost savings of 10% to 50% over previously specified tapes. G-E 8380 won't crack or form voids, eliminates inventory and possible mistakes in application.



Irrathene SPT® Tape is a self-amalgamating, cross-linked material that handles easily over a wide temperature range, and stretching doesn't affect it. The result: faster, more dependable splices and terminations, with real savings in time, material and service life. Also recommended for jacketing use.



Irricon S-B™ Conducting Shielding Tape is an elastomeric, self-bonding, conducting material designed to reduce the electrical stress in splices and terminations of high voltage power cables. It is used to continue the conducting shielding layers of power cables, over the lower half of stress relief cones, and over and under the insulating tapes on splices. Irricon has outstanding conductivity. Large conducting letters are clearly marked on the tape to prevent misuse.

Product No.	Thickness in Inches	Width in Inches	Length in Feet	Price Per Roll*
0-15KV High-voltage Splicing Tape				
8380	0.040	3/4	20	\$0.94
0-46KV Irrathene SPT Tape				
42-003	0.020	3/4	36	1.69
	0.020	1	36	2.05
	0.020	1 1/2	36	2.69
	0.020	1 1/2	36	3.19
Irricon S-B Conducting Shielding Tape				
42-031	0.030	3/4	15	1.29
	0.030	3/4	30	1.99

* Standard package—48 rolls per case.

SEAMLESS BIAS VARNISHED CLOTH AND TAPE

Available in several forms, widths, and thicknesses, G-E Seamless Bias-cut Varnished Cotton Cloth has excellent conformability and dielectric strength. It is suggested for use in cable splices and other applications where oil resistance is a prime consideration.

Product No.	Thickness in Inches	Width in Inches	Length in Yards	Price Per Roll
992 (Black)	0.007	3/4	36	\$1.01
991 (Yellow)	.007	3/4	36	1.01
1786 (Black Oil Proof)	.010	3/4	36	1.10

VERSA-FAB® VARNISHED DACRON GLASS TAPE

Versa-Fab Tape's good conformability to irregular shapes and its great physical strength make it an ideal, low-cost insulation for cable connections and splices under 2300 volts. A straight weave tape, it is suggested for applications up to 130 C continuous operation.

Product No.	Thickness in Inches	Width in Inches†	Length in Yards	Price Per Roll*
76528 (Black)	0.010	3/4	36	\$1.10
76562 (Black Oil Proof)	.010	3/4	36	1.19

* Standard package—20 rolls.
† Other widths available upon request.

POTTING COMPOUND

A high-dielectric, hot-melt compound which saturates and penetrates porous materials, protecting them from air, moisture, dirt, oil, and other harmful materials. It is an ideal insulation for solid-filled cable accessories.

Product No.	Description	Weight/Gallon 7.25 lb	Price Per Container*
1332	Oil Stop Compound	1 gal.	\$9.85
		5 gal.	40.00

* Standard carton—4 gallon pails.

GENERAL-PURPOSE INSULATING AND TRACK RESISTANT PAINT



The resistance of time-tested Glyptal® 1201 Red Enamel to oil, acid, moisture and corrosion makes it an outstanding primer, protective finish, adhesive, sealer and electrical insulation. G-E 1201 is available in standard sizes, and, as 1201A, in a handy 16-ounce spray can.

Product No.	Container Size‡	Price Per Container
Glyptal Red Enamel		
1201	Pint Cans (12 per carton)	\$1.15
	Quart Cans (12 per carton)	2.10
	Gallon Cans (4 per carton)	7.15
1201A	16 oz. Aerosol (12 per carton)	2.50
Paint Thinner		
1500	1-gallon	2.20

‡ Paints and thinners are also available in larger quantities.

GRAYBAR TAPES AND COMPOUNDS

PREMIUM BROWN FRICTION TAPE



Highest quality friction tape. Premium adhesive and tensile strength qualities. Best electrical properties. All because natural brown rubber is used as base of compound. Extra footage per roll. Packaged in 10-roll container.

No.	Size	Ft. in Roll	Packed	Per Can	10 Cans. Per Can
9483	8	70	10-roll Shop Pack	5.40*	5.05

AMAZON ASTM FRICTION TAPES



High quality friction tape guaranteed to meet or exceed all ASTM and U.S. Government specifications. Extremely abrasion resisting. Has excellent tensile and adhesive qualities. Long lasting, will not dry out, non-ravelling. Protected by moisture-proof wrapping in sturdy cardboard carton.

Nos.	Size	Ft. in Roll	Packed	Per Roll	Per 100 Rolls
9382	8	82½	Ind. Ctns.	.54	50.50
9381	8	82½	Cello-Label	.53	49.50
9383	8	82½	10-roll Shop Pack	5.40*	50.50

*Prices are for ¾-in. wide tape in moisture proof wrapping, in a carton. For tape in moisture proof wrapping only, deduct \$1.00 per 100 rolls.

Prices on width other than ¾ in. available on request.

VICTOR BLACK FRICTION TAPES



An all-purpose friction tape of highest quality. Alike to Sticka Tape in all instances, except footage per roll.

Nos.	Size	Ft. in Roll	Packed	Per Roll	Per 100 Rolls
9282	8	68	Ind. Ctns.	.49	45.50
9281	8	68	Cello-Label	.48	44.50

*Prices are for ¾-in. wide tape in moisture-proof wrapping in a carton. For tape in moisture-proof wrapping only, deduct \$1.00 per 100 rolls.

Prices on widths other than ¾-in. available on request.

STICKA BLACK FRICTION TAPES



High quality friction tape, non-ravelling and suitable for all application where friction tape is indicated.

Strong, abrasion-resisting, and very adhesive.

Free from pinholes, will not dry out. Rolls packed in moisture-proof wrapping.

Nos.	Size	Ft. in Roll	Packed	Per Roll	Per 100 Rolls
9182	8	60	Ind. Ctns.	.46	43.00
9181	8	60	Cello-Label	.45	42.00
9183	8	60	10-roll Shop Pack	4.60*	43.00
9142	4	30	Ind. Ctns.	.24	23.00
9141	4	30	Cello-Label	.23	22.00

*Prices are for ¾-in. wide tape in moisture-proof wrapping in a carton. For rolls in moisture-proof wrapping only, deduct \$1.00 per 100 rolls.

†Shop package. The convenient container has 10 rolls of tape, each heat sealed in moisture-proof wrapping.

Prices on widths other than ¾-in. available on request.

AMAZON ASTM SPLICING COMPOUNDS

Rubber Tape



Manufactured from a higher grade rubber compound.

Will meet and exceed requirements of all U.S. Government and ASTM specifications. Self-vulcanizing, will conform to all splices so as to give complete insulation. Strong in tensile and extremely flexible.

Dielectric strength: 350 volts per mil. of thickness.

Nos.	Size	Ft. in Roll	Packed	Per Roll	Per 100 Rolls
9682	8	30	Ind. Ctns.	.59	55.00
9681	8	30	Cello-Label	.58	54.00

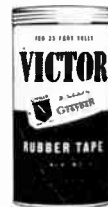
*Price Per Can (10 rolls per can)

*Prices are for ¾-in. wide tape in moisture-proof wrapping in a carton. For tape in moisture-proof wrapping only, deduct \$1.00 per 100 rolls.

Prices for width other than ¾-in. on request.

VICTOR SPLICING COMPOUNDS

Rubber Tape



An excellent quality Splicing Compound designed for use on all regular circuits.

Extremely strong and elastic. Seals splices against all moisture and dirt.

Dielectric strength: 300 volts per mil. of thickness.

Nos.	Size	Ft. in Roll	Packed	Per Roll	Per 100 Rolls
9582	8	23	Ind. Ctns.	.49	46.00
9581	8	23	Cello-Label	.48	45.00
9583	8	23	10-roll Shop Pack	4.45*	46.00
9542	4	11	Ind. Ctns.	.26	24.50
9541	4	11	Cello-Label	.25	23.50

*Prices are for ¾-in. wide tape in moisture-proof wrapping in a carton. For tape in moisture-proof wrapping only, deduct \$1.00 per 100 rolls.

Prices on widths other than ¾-in. on request.

PLYMOUTH SPLICING COMPOUNDS

PLYMOZONE SPLICING COMPOUND



For maximum high-voltage resistance to ozone and moisture. Plymozone ozone-resisting splicing compound exceeds ASTM D-1373. Plymozone withstands four times the ozone concentration used as ASTM standard. Packed in individual tin cans.

No.	Roll Size	Rolls/Ctn.	1-39	Price per Roll	40-120	121-160
2022	¾" x 30'	40 Tins	.94	.89	.83	

PLYMPRENE NEOPRENE SPLICING COMPOUND



A highly weather-resistant splicing tape for maximum protection against oils, alkalies, and weather extremes. Use on neoprene wire for both insulating and jacketing. Packed in individual tin cans.

No.	Roll Size	Rolls/Ctn.	1-39	Price per Roll	40-120	121-160
2071	¾" x 30'	40 Tins	.94	.89	.83	

PLYMOUTH TAPES

NO. 7 SLIPKNOT PLASTIC ELECTRICAL TAPE



The dependable tape. Tough, economical, safe — resists water, acids, alkalkies, corrosion, oils, varying temperatures and weather conditions. Dielectric strength of over 10,000 volts. Comes packed individually, one 66' roll, 3/4" wide, in metal can; or 20' rolls, 3/4" wide, in handy

12-roll container. Also available in Flip-n-Cut dispenser for fast, economical cutting at no extra cost.

Nos.	Roll Size	Rolls/Pk.	Each	Price per Roll	
				10 Rolls	100 Rolls
3205	3/4" x 66'	1/Disp.	1.39	1.15	.95
3201	3/4" x 66'	1/Tin	1.39	1.15	.95
3206	3/4" x 44'	1/Disp.	.94	.78	.65
3133	3/4" x 44'	5/Tube	.95	.78	.65
3207	3/4" x 30'	1/Disp.	.71	.58	.47
3202	3/4" x 20'	12/Tube	.52	.43	.36

SLIPKNOT CW ALL-WEATHER PLASTIC TAPE



Slipknot CW is the true all-weather tape that unrolls and sticks in zero weather like other tapes do at room temperature. Preferred all year 'round because of its superb conformability. Application temperature range of -14° F. to 176° F. (.0085" thick)

Nos.	Roll Size	Rolls/Pk.	Each	Price per Roll	
				10 Rolls	100 Rolls
3164	3/4" x 66'	1/Disp.	1.62	1.33	1.11
3240	3/4" x 66'	1/Tin	1.62	1.33	1.11
3171	3/4" x 20'	12/Tube	.61	.50	.42
3182	1/2" x 108'	1/Ctn.	2.21	1.85	1.53
3183	3/4" x 108'	1/Ctn.	2.72	2.27	1.89
3184	1" x 108'	1/Ctn.	3.40	2.84	2.36

NO. 10 SLIPKNOT PLASTIC TAPE



Its thicker gauge (.010") makes No. 10 Slipknot the ideal plastic electrical tape for tough applications. Made of the same fine quality materials as Slipknot No. 7 Plastic Electrical Tape, No. 10 Slipknot gives even greater protection — yet works easily and molds snugly to any contour. Dielectric strength: 12,000 volts.

Size In.	Each	Price per Roll	
		10 Rolls	100 Rolls
3/8"	1.68	1.38	1.15
1/2"	1.90	1.56	1.30
3/4"	2.34	1.92	1.60
1"	2.92	2.40	2.00
1 1/2"	4.38	3.60	3.00

SLIPKNOT NO. 45 COLOR-CODING TAPE



Thin, pressure-sensitive vinyl tape in six colors (red, white, blue, orange, yellow, green) for fast, permanent color coding in accordance with existing GSA and local electrical codes. Accommodates any size wire or conduit. Conforms completely to irregular surfaces.

Nos.	Roll Size	Rolls/Pk.	Price per Dispenser	
			1-11	12
3165	1/2" x 20'	6/Disp.	1.50	1.35
3166	1/2" x 20'	12/Ctn.	Price per Roll	
3132	3/4" x 20'	12/Ctn.	1-23	24 and up
3113	1/2" x 108'	12/Ctn.	.25	.22
			.34	.30
			1.08	.98

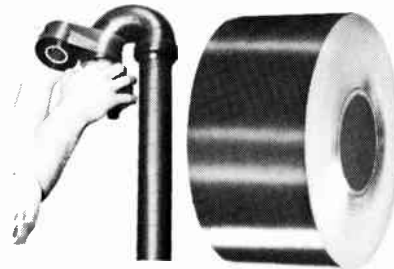
SLIPKNOT FILLER TAPE



Electrical insulating putty for filling voids and building up around sharp edges of connectors, etc. Molds perfectly under finger pressure. Designed for use with Slipknot Plastic Electrical Tapes. Packed in individual cartons.

No.	Roll Size	Rolls/Ctn.	Price per Roll		
			1-47	48-144	145-528
2074	1 1/2" x 60" x 1/8"	48	1.17	1.05	.99

SLIPKNOT ANTI-CORROSION PIPE-WRAPPING TAPE



A barrier that stops corrosion of both buried and overhead pipe and conduit. Meets electrical code requirements for protecting conduit in concrete. Self-sticking polyvinyl chloride (PVC) — 2", 4", and 6" wide. Slipknot #100 (.010" thick) for most applications. Slipknot #120 (.010" thick) green for cold weather applications. Slipknot #200 (.020" thick) for heavy-duty applications.

Cat. No.	No.	Description	Standard Package	Per 100 Sq. Ft.
3069	100	.010"	400 Sq. Ft.	18.40
3210	120	.010"	400 Sq. Ft.	20.45
3070	200	.020"	400 Sq. Ft.	29.45

"SCOTCH" BRAND VINYL PLASTIC ELECTRICAL TAPE NO. 33

"SCOTCH" Brand Electrical Tape No. 33 (made of vinyl plastic) has been proved and accepted over the years as a general purpose insulation. It has excellent resistance to flame, abrasion, sunlight, moisture, alkalis, solvents, oil and many acids. No. 33, with its quick sticking, strong holding, pressure-sensitive adhesive, provides excellent stretch and conformability—gives full electrical and mechanical protection with minimum bulk. Consistent handling properties assure tightly wrapped splices that will not loosen.



Cat. No.	Roll Sizes	Roll	Packaging Ctns.	Case	Price Per Roll
33	¾" x 66 ft.	1/can	10	100	\$1.39
33	¾" x 44 ft.	1/plastic box	10	100	.94
33	1½" x 44 ft.	1/box	10	100	1.88
33	¾" x 20 ft.	10/ctn.	10	100	.52
33	¾" x 20 ft.	10/ctn.	10	100	.32

"SCOTCH" BRAND ALL-WEATHER VINYL PLASTIC ELECTRICAL TAPE NO. 88

"SCOTCH" Brand Electrical Tape No. 88 with plastic backing has proved to be an excellent insulation under all weather conditions. For that extra pliability and conformability at winter temperatures, No. 88 is the tape for your operations.



Cat. No.	Size	Rolls	Ctns.	Case	Price Per Roll
88	¾" x 66 ft.	1/can	10	100	\$1.62
88	¾" x 44 ft.	1/plastic box	10	100	1.08
88	1½" x 44 ft.	1/box	10	100	2.16
88	¾" x 20 ft.	10/ctn.	10	100	.61

"SCOTCH" BRAND SPECIAL VINYL PLASTIC ELECTRICAL TAPE NO. 99

"SCOTCH" Brand Electrical Tape No. 99 is designed to perform in a continuous temperature environment up to 220° F. It combines a special oil-resistant vinyl backing with a super oil-resistant adhesive to assure positive insulation protection in applications subject to oil splash or oil immersion.



Cat. No.	Roll Sizes	Roll	Packaging Ctn.	Case	Price Per Roll
99	¾" x 66'	1/can	10	100	\$1.78
99	¾" x 44'	1/plastic box	10	100	1.21

"SCOTCH" BRAND VINYL PLASTIC ELECTRICAL TAPE NO. 35 FOR COLOR CODING

Color coding tape in eight fadeproof colors (red, white, blue, yellow, green, orange, gray, and brown) possesses all the properties of "Scotch" No. 33 Tape.

Cat. No.	Size	Roll	Packaging Carton	Case	Price Per Roll
35	½" x 20'	1/Celo Pack	5	100	\$.39

"SCOTCH" BRAND ELECTRICAL SEMI-CONDUCTING TAPE NO. 13

A self-fusing, rubber base, semi-conducting tape for use on cable splices and terminations. No. 13 tape reduces electrical stresses in the area beneath the shielding continuation and around connectors and terminal lugs.



Cat. No.	Roll Sizes	Roll	Packaging Ctn.	Case	Price Per Roll
13	¾" x 15'	1/box	10	50	\$1.55

"SCOTCHFIL" BRAND ELECTRICAL INSULATION PUTTY

"SCOTCHFIL" Brand Electrical Insulation Putty is useful for filling voids and padding sharp edges of cable connectors, motor terminals, bus bars and tee connectors. It will not corrode copper. Uniform thickness (⅛ inch) gives rapid build-up to full cable thickness. Good electric and excellent aging properties insure thorough seal and long service life.



Roll	Size	Roll	Packaging Ctn.	Case	Price Per Roll
1½"	x 60"	1/box	10	50	\$1.44

"SCOTCH" BRAND ELECTRICAL TAPE NO. 23

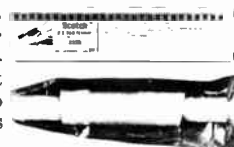
Instant fusing, easy-to-use No. 23 provides excellent insulating and moisture-proofing qualities for high-voltage (including cross-linked polyethylene) and communication cable. It has unexcelled handling characteristics and excellent aging properties.



Cat. No.	Size	Roll	Ctn.	Case	Price Per Roll
23	¾" x 30'	1/can	10	50	\$1.27
23	2" x 30'	1/box	10	50	3.17

"SCOTCH" BRAND E-Z TAB STRESS CONE PENNANT NOS. 2330, 2340, 2360 and 2380

The "SCOTCH" Brand E-Z Tab Pennant is a one-piece triangular shaped ultra-violet and corona resistant insulating material that wraps on easily and fuses readily to provide a void free engineered stress relief cone.



Prod. No.	Size	Roll	Packaging Carton	Price Per Roll
2330	6" x 30"	1/box	10	\$1.66
2340	6" x 40"	1/box	10	1.86
2360	6" x 60"	1/box	10	2.11
2380	6" x 80"	1/box	10	2.55

"SCOTCH" BRAND ELECTRICAL SHIELDING TAPE NO. 24

"SCOTCH" Brand Electrical Shielding Tape No. 24 is a wire shielding braid in a flat, cable-like form. Easy to apply, it provides an effective replacement for the electrostatic shielding removed when splicing or terminating high voltage and communication cable.



Cat. No.	Size	Roll	Packaging Carton	Case	Price Per Roll
24	1" x 15'	1/box	10	50	\$ 2.18
24	1" x 100'	1/box	10	50	10.95

"SCOTCH" BRAND ELECTRICAL TAPE NO. 27

All common wire splices in high-heat areas are easily insulated with glass cloth No. 27. Not harmed by heat, resists flame and has thermosetting pressure-sensitive adhesive.



Prod. No.	Roll Size	Packaging Roll	Ctns. Case	Price Per Roll
27	1/2 in. x 66 ft.	1/can 10	50	\$1.88
27	3/4 in. x 66 ft.	1/can 10	50	\$2.80

"SCOTCH" BRAND ELECTRICAL TAPE NO. 70

This high-temperature silicone rubber splicing tape is recommended as the sole insulation or overwrap for splices and terminations on all types of silicone cables, or where arc tracking is a problem. Rated at 180° C, No. 70 offers excellent resistance to weathering, tracking, arcing and ozone.



Prod. No.	Roll Size	Packaging Roll	Ctn. Case	Price Per Roll
70	3/4" x 30 ft.	1/box 10	50	\$5.52

"SCOTCHCAST" BRAND SPLICING KITS NOS. 82-A, 82-A1, 82-A2, 82-A3, 82-B1, 90-B1

Complete kits make in-the-field splicing easy and reliable. Packaged for quick assembly, positive electrical and moisture proof inline and wye (tap) splices (5KV and under). Transparent snap together mold bodies with pre-measured two-part mix-in-the-bag epoxy resin.



Prod. No.	Cond. Min.	Size MCM Max.	Conn. Sleeve	O.D. Type	Packaging Per Box	Per Case	Price Per Box
82-A (inline)	#10	#2	13/32"	Max.	1	10	\$3.55
82-A1 (inline)	—	#2	13/32"	Max.	1	10	3.55
82-A2 (inline)	#2	3/0	5/8"	Max.	1	10	5.53
82-A3 (inline)	3/0	400	1"	Max.	1	10	9.10
			Conn. Type				
			Split Bolt	Crimped	Cable O.D.		
82-B1 (Wye)	#4 Max.	#2 Max.	1/4"	-5/8"	1	10	5.30
90-B1 (Wye)	1/0 Max.	2/0 Max.	Main Tap	1/2"-13/32"	1	10	5.30
				3/4" Max.			

"SCOTCHCAST" BRAND TERMINATION KITS NOS.

83-A3, 83-B3, 83-A4, 83-B4, 83-B1

Consists of a full complement of engineered factory-formed parts needed to terminate single conductor cable (maximum nominal rated voltage [phase to phase] 20KV). Transparent snap together mold bodies with pre-measured two-part mix-in-the-bag epoxy resin.



Prod. No.	Cable O.D. Min.	Max.	Primary Insul. Min.	O.D. Max.	Packaging Per Box	Per Case	Price Per Box
83-A3 (outdoor)	3/8"	1-7/16"	.62"	1.15"	1	—	\$24.80
83-B3 (indoor)					1	—	
83-A4 (outdoor)	1-7/16"	2-1/16"	1.15"	1.54"	1	—	35.20
83-B4 (indoor)							
83-B1 (stress cone for URD cable)	27/32"	1-1/16"	.62"	.875"	1	10	8.52

"SCOTCHCAST" BRAND ELECTRICAL INSULATING RESIN NO. 4



Natural adhesive qualities and compatibility with all solid and synthetic cable insulations and sheaths makes No. 4 an excellent insulator and sealer. Pre-measured, two-part epoxy resin packaged in the unique "UNIPAK" Brand container for easy mixing.

Product Number	Unipak Brand Container Size	Fluid Ozs.	Packaging Per Box	Per Case	Price Per Box
Resin..No. 4	F	1 3/8	1	10	\$1.10
	A	2 3/4	1	10	1.52
	B	6 1/4	1	10	2.59
	C	12 1/2	1	10	4.84

"IRVINGTON" BRAND ELECTRIC ARC AND FIRE PROOFING TAPE NO. 7700

Insulates high voltage cables from electric arc and fire damage while protecting adjacent cables. No. 7700 is moisture, weather, and corrosion resistant—won't rot, flake, or disintegrate. Goes on fast, No. 7700 is light weight and conformable—easy to handle in cramped spaces.



Prod. No.	Roll Size	Packaging Roll	Carton Case	Price Per Roll
7700	3" x 20 ft.	1/box 10	50	\$8.66
	1 1/2" x 20 ft.	1/box 10	50	4.56

"FIBREMAT" BRAND ELECTRICAL TAPE NO. 2544 AND 2577

This tape is a non-woven web material, saturated with a high-grade electrical varnish. Unusually conformable for heavy-duty mechanical build-up and padding applications. No. 2577, with adhesive; No. 2544, without adhesive.



Cat. No.	Roll Size	Packaging Roll	Ctn. Case	Price Per Roll
2577	3/4 in. x 60 ft.	1/box 10	50	\$1.16
2544	3/4 in. x 60 ft.	1/box 10	50	1.11

"IRVINGTON" BRAND ELECTRICAL TAPES NOS. 2510, 2520

A bias-cut cambric tape impregnated with a high grade electrical varnish. Conformability and high electric strength, low power factor. No. 2520 with adhesive; No. 2510 without adhesive.



Prod. No.	Roll Size	Packaging Roll	Ctns. Case	Price Per Roll
2510	3/4" x 60 ft.	1/box 10	50	\$1.16
2520	3/4" x 60 ft.	1/box 10	50	1.25

"VI-SPRAY" BRAND ELECTRICAL SEALER NO. 2530

Handy spray can provides fast drying protection against corrosion and gives added protection on wire and cable splices where resistance to oils, acids, corrosive atmospheres, and moisture is required.



Product Number	Color	Type	Packaging Cans Per Carton	Cans Per Case	Price Per Can
2530	Red	Pressurized spray can	12	48	\$2.16

PERMACEL ELECTRICAL TAPES



**PERMACEL* 29
PLASTIC ELECTRICAL TAPES**

PERMACEL 29 Plastic Electrical Tape For insulating wire splices. Recommended where smooth, compact, durable splices are essential. Water and oil resistant. 10,000 volts dielectric strength. U.L. approved. Also available in yellow, silver and clear. Various widths in 36 yard lengths, bulk packing.**

Prod. No.	Size	Rolls Per Individual Box	Rolls Per Unit	Rolls Per Shipping Case	NET PRICE /ROLL			
					Price Per Roll	1 Unit	4 Units	8 Units
29C	3/4"x20'	—	12/tube	144	\$1.00	\$.80	\$.70	\$.66
29R	3/4"x66'	1/plastic box	12	48	2.78	2.30	2.00	1.90
29L	3/4"x66'	4/plastic box	—	48	2.78	2.30	2.00	1.90

**Contact Graybar on prices.



**PERMACEL* 295
All-Weather, Heavy-Duty
PLASTIC ELECTRICAL TAPE.**

The only tape guaranteed to stick and stay at 0° F., or your money refunded. 12,000 volts dielectric strength. U.L. approved.

Prod. No.	Size	Rolls Per Individual Box	Rolls Per Unit	Rolls Per Shipping Case	NET PRICE /ROLL			
					Price Per Roll	1 Unit	4 Units	8 Units
295C	3/4"x20'	—	12/tube	48	\$1.20	\$.98	\$.86	\$.80
295L	3/4"x66'	4/plastic box	—	48	3.24	2.64	2.30	2.20
295R	3/4"x66'	1/plastic box	12	48	3.24	2.64	2.30	2.20
295T	3/4"x44'	1/plastic box	12	48	2.16	1.80	1.56	1.48

*Trademark.



FREE PLASTIC PARTS BOXES

PERMACEL 29 and 295 Plastic Electrical Tape are packed 4 rolls to a box. Permacel 29R and 295R are packed 1 roll to a box. As the tape is used up each box makes a useful container for screws, nails or other small parts or for storing small items of fishing tackle.

Order the large boxes as 29L or 295L.

ORDERING INFORMATION: A UNIT is 12 rolls of a single product and size and equals 1 case for pricing and assorting purposes. Order in UNIT quantities; i.e. — 4 UNITS 29R (48 rolls — 1 shipping case).

PERMACEL* 30

Plastic Electrical Tape for heavy-duty applications. Excellent holding power. Strong resistance to weather effects. 10 mils thick. U.L. approved.

Prod. No.	Width	Length	Rolls Per Case	Each	NET PRICE /ROLL		
					1 - 4 Cases	5 - 14 Cases	15 Cases or More
30	1/2"	36 yds.	72	\$3.15	\$2.74	\$2.60	\$2.40
30	3/4"	36 yds.	48	3.86	3.36	3.20	2.96
30	1"	36 yds.	36	4.83	4.20	4.00	3.70

PERMACEL* 291

Plastic Electrical Tape for insulating wire splices. Recommended where smooth, compact, durable splices are essential. Water and oil resistant. 10,000 volts dielectric strength. U.L. approved. Special beige color.

Prod. No.	Width	Length	Rolls Per Case	Each	NET PRICE /ROLL		
					1 - 4 Cases	5 - 14 Cases	15 Cases or More
291	1/2"	36 yds.	72	\$3.15	\$2.74	\$2.60	\$2.40
291	3/4"	36 yds.	48	3.86	3.36	3.20	2.96
291	1"	36 yds.	36	4.83	4.20	4.00	3.70



PERMACEL* 21D

Glass Cloth Electrical Tape for high temperature insulation applications. Withstands temperatures up to 266° F. Adequate stretch, conformability and durability. 3000 volts dielectric strength.

Prod. No.	Size	Rolls Per Individual Box	Rolls Per Unit	Rolls Per Shipping Case	Price Per Roll	NET PRICE/ROLL		
						1 Unit	4 Units	8 Units
21D	1/2"x66'	1	12	24	\$3.24	\$2.64	\$2.30	\$2.20

OKONITE TAPES AND SPLICING MATERIALS

OKONEX-CLF BUTYL TAPE WITH MOLYBOND†



For splicing butyl and polyethylene cables. Extremely heat resistant. Fuses perfectly without vulcanization, even at very low temperatures. Excellent ozone, corona and moisture resistance. Low power factor and SIC.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
20-4010	3/4" x30'x.030"	10	100	\$0.85
20-4020	1" x30'x.030"	6	72	1.13
20-4030	1 1/2" x30'x.030"	4	48	1.70
20-4040	2" x30'x.030"	3	36	2.26
20-4050	3" x30'x.030"	2	24	3.40

†Okonite's trade name for a chemical cross-linking material.

OKOPRENE NEOPRENE TAPE



Designed to protect splices on neoprene jacketed cables. It can be used with power and control cables or for repairing portable cables, where a quick repair is desired without the use of a vulcanizer.

Mechanically rugged, it has good resistance to weather, moisture, oil and chemical splashings.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
30-6010	3/4" x30'x.030"	10	100	\$0.85
30-6020	1" x30'x.030"	6	72	1.13
30-6030	1 1/2" x30'x.030"	4	48	1.70
30-6040	2" x30'x.030"	3	36	2.26
30-6050	3" x30'x.030"	2	24	3.40

OKOWELD SPLICING TAPE



This neoprene tape does two jobs. It is the only self-fusing tape approved by the U.L. for both insulating and jacketing splices in low voltage neoprene and plastic cables. Also for protecting

splices in neoprene and plastic jacketed high voltage cables; has good dielectric strength and resists oil and chemical splashings. Fuses quickly into a homogeneous covering without external heat. Standard is black. Available also in red, blue, yellow and green subject to minimum order requirements.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
35-7010	3/4" x30'x.030"	10	100	\$0.85
35-7020	1" x30'x.030"	6	72	1.13
35-7030	1 1/2" x30'x.030"	4	48	1.70
35-7040	2" x30'x.030"	3	36	2.26
35-7050	3" x30'x.030"	2	24	3.40

MANSON FRICTION TAPE



A super strong friction tape. Made from fabric with 25% more threads per inch and impregnated with a natural rubber compound. For use where extreme resistance to mechanical abuse is desired.

Weather resistant — won't dry out or unwrap. Excellent electrical strength.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
05-1010	3/4" x82'x.015"	10	100	\$0.70
05-1020	1" x82'x.015"	6	72	.93
05-1030	1 1/2" x82'x.015"	4	48	1.40
05-1040	2" x82'x.015"	3	36	1.87
05-1050	3" x82'x.015"	2	24	2.80

OKONITE RUBBER TAPE



Ideal for splicing 600 volt rubber cables type RW, RH and RHW. Made of new natural rubber, it is mechanically strong, has good moisture resistance, dielectric strength and insulation re-

sistance. Fuses quickly into a homogeneous wall of insulation without external heat.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
10-2010	3/4" x30'x.030"	10	100	\$0.80
10-2020	1" x30'x.030"	6	72	1.07
10-2030	1 1/2" x30'x.030"	4	48	1.60
10-2040	2" x30'x.030"	3	36	2.13
10-2050	3" x30'x.030"	2	24	3.20

OKOLITE HIGH VOLTAGE TAPE



For splicing oil-base compound insulated cables, such as Okolite-Okoprene. It has high dielectric strength; excellent insulation, moisture, ozone and corona resistance. Self-fusing. For all voltages up to 35 KV.

Cat. No.	Roll Size	Unit Pkg.	Case	Per Roll
15-3010	3/4" x30'x.030"	10	100	\$0.90
15-3020	1" x30'x.030"	6	72	1.20
15-3030	1 1/2" x30'x.030"	4	48	1.80
15-3040	2" x30'x.030"	3	36	2.40
15-3050	3" x30'x.030"	2	24	3.60

SPLICING AND TERMINATING KITS

These kits are tailor made for splicing or terminating your specific cables. Ordering kits, rather than bulk splicing materials, is the easiest and safest way to be sure you have exactly what you need — in the right amounts — at the right time and place.

Complete and easier-to-follow drawings and instructions furnished with all kits. To order, specify: conductor size, type insulation and thickness or voltage rating, type jacket and thickness. If "T" splice, give same information for tap cable. If for termination specify if indoor or outdoor.

The Graybar Tag, together with the trademarks of famous manufacturers listed in this catalog, is your double assurance of quality.

BISHOP INSULATING MATERIALS

**BI-SEAL SELF BONDING
(polyethylene based)
ELECTRICAL TAPE**



Provides a permanent, watertight seal for service entrance connectors. Specifically designed for splicing and terminating high voltage polyethylene insulated power cable; may be used on all solid dielectric insulated power cable.

Bi-Seal

Size	Rolls/ Pkg.	Per Roll				
		Less Pkg.	Less 4 Pkgs.	Less 20 Pkgs.	Less 40 Pkgs.	10 Pkgs. or More
1/2" x 30'	72	\$1.16	\$0.88	\$0.81	\$0.74	\$0.65
3/4" x 30'	36	1.61	1.29	1.19	1.09	.96
1" x 30'	36	2.00	1.67	1.55	1.43	1.27
1 1/2" x 30'	24	2.89	2.50	2.31	2.12	1.90
2" x 30'	18	3.78	3.32	3.07	2.81	2.53

*Packed 2 rolls/ctn.



**No. 30 HIGH VOLTAGE
SPLICING TAPE**

Developed especially for splicing cables insulated with ozone-resistant rubber compounds rated to 35,000 volts. Has exceptional corona and ozone resistance and aging properties.

No. 30 Butyl

Size	Rolls/ Pkg.	Per Roll		
		Less Pkg.	Less 4 Pkgs.	4 Pkgs. or More
3/4" x 30'	100	\$0.95	\$0.80	\$0.75
1" x 30'	80	1.25	1.07	1.00
1 1/2" x 30'	60	1.85	1.60	1.50
2" x 30'	40	2.45	2.14	2.00



**BI-PRENE (neoprene)
ELECTRICAL JACKETING TAPE**

Protects cable splices wherever oil, gasoline, grease, etc., threaten cable life -- particularly for neoprene-sheathed cable. Forms a permanent outer sheath.

**Bi-Prene Neoprene
Type C**

Size	Rolls/ Pkg.	Per Roll		
		Less Pkg.	Less 4 Pkgs.	4 Pkgs. or More
3/4" x 30'	80	\$1.00	\$0.80	\$0.75
1" x 30'	80	1.40	1.10	1.00
1 1/2" x 30'	60	2.00	1.60	1.50
2" x 30'	40	2.80	2.20	2.00

Type H

3/4" x 30'	80	\$1.15	\$0.90	\$0.85
1" x 30'	80	1.65	1.30	1.20
1 1/2" x 30'	60	2.25	1.80	1.70
2" x 30'	40	3.25	2.60	2.40



**No. 20 TRI-SIL
SILICONE RUBBER SELF-FUSING TAPE**

For terminating power cable rated to 35,000 volts, track resistant.

No. 20

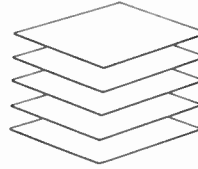
Size	Per Roll				
	Less 24 Rolls	Less 96 Rolls	Less 192 Rolls	Less 384 Rolls	Less 480 Rolls or More
1" x .020" x 30'	\$6.90	\$6.35	\$5.80	\$5.30	\$4.75

24 rolls per pkg.

PLYMOUTH

TELEPHONE & UTILITY TAPES

PLYMOUTH "B" SPLICE COVERING



A .009" thick polyvinyl chloride sheeting. Excellent resistance to acids, alcohols, salt and fresh water, alkalies, chemicals, sun, and weather. Can be stretched to conform with irregular shapes. Fasten with No. 7 Slipknot Plastic Electrical Tape. Seal edges for a water-proof covering.

Cat. No.	Description	Packaging	Per roll	
			Less than 100 Rolls	100 roll Quan.
3049	48"x.009"x50' Wrapped roll in individual cartons	Packed singly	17.50	16.50
3050	20"x.009"x24" 5 sheets per pkg.	20 packages per case	1.90	1.75

PLYMOUTH RUBBER BANDAGE

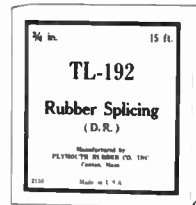


A very elastic tape of highly vulcanized rubber used to compress splicing compound around high-voltage joints. When wrapped under tension, its high tensile strength and elongation factor squeeze out any air bubbles in the splicing compound -- assuring tighter, safer splices. Insulated joint is wrapped with two layers of Plymouth Rubber Bandage, using a 1/2 lap and pulling bandage to its stretch limit for maximum compression.

Bandage is removed after three minutes.

Cat. No.	Description	Rolls per case	Per roll	
			Less than 100 rolls	100- roll Quan.
2088	4"x.028"x14' Wrapped roll in individual carton	40	3.35	3.10

**PLYMOUTH DOUBLE-RUBBER TAPE
(D.R.) TL-192**



A special self-vulcanizing high-voltage rubber tape made expressly for wet conditions. D.R. tape provides over 22,500-volt dielectric protection. A layer of white unvulcanized rubber is fused to a layer of black vulcanized rubber, for extra thickness (.045") and superior insulation. Can be used even underwater for a fully water-proof splice. Fuses perfectly into a homogeneous mass that assures complete protection. In

individual cartons.

Nos.	Roll Size	Rolls/ Ctn.	Price per Roll		
			1-99	100-300	301-500
2011	3/4" x 15'	100	.55	.51	.47
2013	2" x 15'	40	1.45	1.35	1.00



PLYMOUTH "CR" TAPE

A .050" thick tape, made up of a layer of .030" white unvulcanized rubber bonded to a layer of .020" black vulcanized rubber. Has exceptional cohesive characteristics, and can be squeezed together to form an absolutely air-tight seal. Also gas-proof.

Cat. No.	Description	Packaging	Per roll	
			Less than 100 rolls	100 rolls up
2065	28"x.050"x20' Wrapped roll in individual carton	Packed singly	26.00	24.25

ATLAS ASBESTOS TEXTILES

ASBESTOS WOVEN TAPE

Conforms to ASTM Specifications. Used widely for electric motor windings and other electrical insulation. Low iron content, high grade long fiber yarn, selvage edges. Incombustible, resists moisture, corrosion, alkalis, mild acids, vermin. Capable of absorbing a high percentage of resin to provide moisture barrier for efficient motor operation.

FINE ASBESTOS TAPES

Wdth. In.	Lbs. Per Roll	Per Lb.	Wdth. In.	Lbs. Per Roll	Per Lb.
Style No. 1770 — .010" Thick					
1/2	.36	\$8.93	1 1/2	1.00	\$6.46
3/4	.52	7.46	2	1.35	6.43
1	.68	6.83	.....	.....	.....
Style No. 2008 — .015" Thick					
1/2	.40	\$7.06	1 1/2	1.00	\$4.83
3/4	.55	5.99	2	1.30	4.67
1	.70	5.38	.....	.....	.....
Style No. 1772 — .020" Thick					
1/2	.50	\$6.15	1 1/2	1.30	\$4.39
3/4	.70	5.23	2	1.80	4.23
1	.82	4.73	.....	.....	.....
Style No. 1773 — .025" Thick					
1/2	.60	\$4.99	1 1/2	1.90	\$2.94
3/4	.90	3.91	2	2.40	2.89
1	1.20	3.39	.....	.....	.....
Style No. 1792 — .030" Thick					
1/2	.65	\$4.31	1 1/2	2.00	\$2.60
3/4	.95	3.36	2	2.50	2.52
1	1.25	2.92	.....	.....	.....

Put up: 36 yd. rolls. Other widths available on application.

HEAVY ASBESTOS TAPES

Wdth. In.	Lbs. Per 100 Ft.	Per Lb.	Wdth. In.	Lbs. Per 100 Ft.	Per Lb.
Style No. 903 — 1/32" Thick					
1	1.40	\$2.32	2	2.75	\$2.09
1 1/2	2.05	2.15	3	4.15	2.03
Style No. 1774 — 1/16" Thick					
1	2.50	\$1.70	2	5.00	\$1.46
1 1/2	3.75	1.49	3	7.50	1.41
Style No. 2074 — 1/16" Thick*					
1	3.25	\$1.74	2	6.60	\$1.57
1 1/2	5.00	1.64	3	10.00	1.49
Style No. 1775 — 1/8" Thick					
1	6.25	\$1.78	2	12.00	\$1.54
1 1/2	9.10	1.56	3	18.00	1.48
Style No. 2075 — 1/8" Thick*					
1	8.25	\$1.83	2	15.50	\$1.65
1 1/2	11.75	1.72	3	22.50	1.56

Put up: 1/8" Tapes — 100 ft. rolls.
1/8" Tapes — 50 ft. rolls.

*Tape is metallic inserted.

Other widths and thicknesses available on application.

ASBESTOS BRAIDED SLEEVING

I.D. In.	1/2" Wall		3/8" Wall	
	Ft. Per Lb.	Per Lb.	Ft. Per Lb.	Per Lb.
1/8	250	\$4.75	110	\$2.90
1/8	150	4.15	66	2.75
1/8	110	3.75	60	2.55
1/4	100	3.50	50	2.50
3/8	75	3.15	22	2.22
1/2	61	3.15	20	2.15
3/4	.....	.....	17	1.75
1	.....	.....	11	1.75

Put up on 1 lb., 5 lb., 25 lb. or 50 lb. spools. Available also in metallic, and in many other inside diameters. Can also be supplied in 1/4" and 1/8" wall thickness. Prices on application. 1/2" wall furnished in Underwriters' grade only.

ATLAS ASBESTOS TEXTILES

ASBESTOS WOVEN CLOTH

Cloths for Thermal Insulation — packings, safety clothing, pipe insulating jackets, fire blankets, theatre and welding curtains, laminated plastics, conveyor belts, etc. Available untreated in off ASTM grades, various weights and weaves.

Style No.	Lbs. Per Sq. Yd.	Thickness In.	Put Up Yds.	Per Lb.
1449	2.25	.065	50	\$1.33
1448	2.50	.065	50	1.33
3300	2.10	.065	50	1.32
5662	4.75	.135	25	1.58
1425	1.00	.030	50	2.95
2319*	2.85	.070	50	1.47
2666*	6.00	.125	25	1.89

Available in 36" and 40" widths.

*Metallic cloth.

Other styles and widths also available.

CUSTOM-WEAVING FOR SPECIAL REQUIREMENTS

Whatever your need for tapes or cloths may be, look into Atlas' wide experience and modern facilities for custom-weaving a variety of fabrics— from asbestos and glass fibers to the newest synthetics and even ceramics withstanding service temperatures up to 2000° F. Orlon, Dacron, Teflon, Nylon and Dynel fabrics, plain or in combination with glass fiber, are available.

BUCHANAN pres-SURE-connectors

For Splicing (2) #18 thru (3) #8 or (2) #6*
For Terminating (1) #16 thru (1) #8*

SPLICE CAPS



Cat. No.	For Wire Sizes	Unit Pkg.	Std. Pkg.	Shpg. Wt. Lbs./M	Per 100
2006S	(2) #18-(4) #12*	100	1000	2 1/4	\$1.30
2008S†	(2) #18-(4) #12*	100	1000	2 1/4	1.50
2011S	(3) #12-(2) #6*	50	500	5 1/4	3.60

†Steel—wire twisting unnecessary. In 2006S and 2011S (copper), solid wires must be twisted for maximum results.

SNAP-ON NYLON INSULATORS



Cat. No.	For Splice Caps	Unit Pkg.	Std. Pkg.	Shpg. Wt. Lbs./M	Per 100
2007	2006S, 2008S	100	1000	3 1/4	\$2.30
2014	2011S	50	500	7	4.70



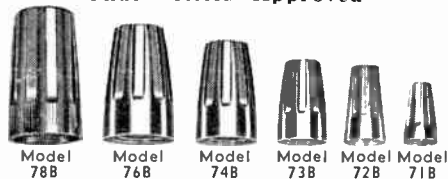
pres-SURE-tool

Cat. No.	For Installing	Shpg. Wt. Lbs. Ea.	Each
C24	Splice Caps Termend Lugs All above All above	1	\$5.90

Splice Caps listed by Underwriters' Laboratories, Inc. and Canadian Standards Association as "pressure cable connectors" for 2#18 thru 3#8 or 2#6 or equivalent combinations, and as "fixture type splicing connectors" for 2#18 thru 2#10 or equivalent combinations. Insulators listed for 600 volts on building wire and 1000 volts in fixtures, in applications up to 105°C. (221°F.) Also UL listed for 1000 volts in electric signs.

*Or equivalent combinations.

IDEAL WIRE-NUTS®
SOLDERLESS-TAPELESS WIRE CONNECTORS
 Underwriters' Approved



Shell made of strong phenolic compound with deep wide skirt to prevent flash-over and make it easier to join larger wires. Approved for use in recessed fixtures up to 150° C. 71B and 72B have U.L. and C.S.A. approval as 300V. fixture connectors 73B has 600V. fixture approval. 74B, 76B and 78B are U.L. and C.S.A. approved as 600V. pressure cable connectors (including fixture approval) for general use in all types of branch circuit wiring. 74B, 76B and 78B also approved for AL/AL and CU/AL splices. Complies with Federal Specifications W-S-610b.

Cat. No.	Model	Wire Combination Range	Per 100	Per 1000
30-071	71B	Joins #18 & 16 AWG 2 #18—2 #16	\$0.95	\$8.05
30-072	72B	Joins #18, 16 & 14 AWG 2 #18—3 #16	1.10	9.75
30-073	73B	Joins #18, 16 & 14 AWG 2 #18—3 #16 & 1 #18	1.35	11.85
30-074	74B	Joins #18, 16, 14 & 12 AWG 1 #14 & 1 #18—2 #14 & 3 #16	1.65	14.40
30-076	76B	Joins #18, 16, 14, 12 & 10 AWG 1 #12 & 2 #18—2 #10 & 1 #12	2.80	24.55
30-078	78B	Joins #14, 12, 10 & 8 AWG 3 #12—4 #10	5.15	45.00

IDEAL CRIMP CONNECTOR
WITH WRAP-CAP® INSULATOR



Sleeve is zinc plated steel for maximum holding power and protection against puncturing. Two sizes handle any combination. Crimp with Ideal Crimp Tool, No. 30-425 or Electricians' Pliers (with built-in crimping die) No. 30-420. Wrap-Cap insulates all around joint and even between wires. U.L. and C.S.A. approved for general use (600V.) in branch circuit and fixture wiring (1000V. when enclosed in fixture or sign), 75° rating. Pressure cable approved. Wrap-Cap may be used as sole insulation for use with any U.L. listed uninsulated cable and fixture type splicing connector or soldered connections. Complies with Fed. Spec. W-S-610b.

CRIMP SLEEVE

Cat. No.	Wire Combination Range	Per 100	Per 1000
30-410	Min: 1 #14 & 1 #18 Max: 2 #10 & 2 #14	\$1.20	\$11.00
30-412	Min: 1 #14 & 1 #16 Max: 2 #8 & 1 #6	3.20	27.84

"WRAP-CAP" INSULATOR

30-415	For 30-410 Sleeve.....	1.95	16.80
30-417	For 30-412 Sleeve.....	3.60	31.20

IDEAL SET SCREW CONNECTOR



No. 11 and 22 are U.L. and C.S.A. approved for 600V. pressure cable connectors. No. 10 listed as a 300V. connector for fixture hanging and appliance wiring. Complies with Fed. Spec. W-S-610b.

Cat. No.	Model	Description	Per 100	Per 1000
30-210	10	2 #14—4 #16—5 #18 or combinations	\$5.20	\$48.00
30-211	11	2 #12—3 #14.....	4.90	44.10
30-222	22	2 #10—3 #12—6# 14 or combinations	6.85	61.95

"SCOTCHLOK" BRAND SELF-STRIPPING ELECTRICAL CONNECTORS TYPE UR, UG, UIR, UIY, UIB

Utilizes the reliable *self-stripping* "U-Element" connecting principle which shears the insulation from the wire and grasps the conductor with a *constant pressure* metal to metal connection. Equivalent to the best twist and solder joint. A transparent polycarbonate resin jacket insulates the connection and allows a visual inspection of the complete splice. Use "SCOTCHLOK" Brand E-9 Crimping Tool on U Series "SCOTCHLOK" Connectors.



Type UR—For making pigtail splices on any 2 or 3 wire combination of No. 19-26 AWG solid or No. 20-24 AWG stranded wire. Self-sealing.

Type UG—For tap splicing (run wire intact) on UD any 2 wire combination of No. 19-26 AWG solid or No. 20-24 AWG standard wire.

Type UIR—For inline splicing of full pairs on telephone wire No. 19-24 AWG solid or No. 19-22 AWG stranded. Self-sealing.

Type UIB—For inline splicing of full pairs of No. 16-19 AWG solid or stranded wire. Self-sealing.

Type UIY—For 4 way tap splicing of No. 16-19 AWG solid or stranded wire. Self-sealing.

Type	Connectors Per Box	Boxes Per Ctn.	Boxes Per Case	Price Per Box
UR	100	10	10	\$ 5.92
UG	100	10	10	5.92
UIR	100	10	10	31.30
UIB	100	10	10	31.30
UIY	100	10	10	31.30

Product Number	For Use With	Tools Per Box	Tools Per Case	Price Any Qty.
"Scotchlok" Crimping Tool E-9B	Type UR, UG, UI Series	1	10	8.80 ea.
E-9E	Type UR, UG	1	10	7.75 ea.

"SCOTCHLOK" BRAND ELECTRICAL SPRING CONNECTORS TYPE Y, R, AND B

"Live" spring action splices all common combinations of solid and stranded building and fixture wire. The "live" spring action expands and contracts with the wire, maintaining constant pressure on conductors. Prevents thermal or vibration loosening. Inner steel shell and vinyl cover adds extra strength and insulating qualities.



Type	Wire Range	Connectors Per Box	Boxes Per Ctn.	Boxes Per Case	Price Per Box
Y	18-12	100	10	10	\$ 2.88
R	16-10	100	10	10	\$ 3.80
B	12-6	100	10	10	\$11.40

"SCOTCHLOK" BRAND ELECTRICAL CONNECTOR SEALING PACKS NO. 3576, 3577 & 3578

Stop moisture-caused circuit interruptions. Connect wires with "SCOTCHLOK" Brand Connectors, included in kit, mix the "SCOTCHCAST" Brand Resin in the unique "UNIPAK" container—container serves as mold body for connector encapsulation.



Product Number	Wire Range	Type of Scotchlok Connector	Connectors Per Box	Boxes Per Carton	Price Per Box
3576	18-12	Y	10	10	\$2.63
3577	16-10	R	10	10	2.71
3578	12-6	B	10	10	3.40

T & B WIRE JOINTS

PIGGY™ WIRE JOINTS

Listed by Underwriters' Laboratories for both Aluminum and Copper.



Twist On With Fingers

Cat. No.	Wire Range	Std. Pkg.	Wt. Lbs. Per 100	Per 100
PT1	2#18 1#10 & 1#14	2000	3	\$2.15
PT2	2#14 2#10 & 1#12	2000	5½	2.80
PT3	2#12 2# 8 & 1# 6	500	13	8.45

STA-KON® WIRE JOINTS



PT60-M

PT6-M

PT-70

Maximum capacity 3 No. 12 wires, solid or stranded. Approved by Underwriters' Laboratories for circuit and fixture splices. Installs with standard WT-161 or WT-100M Sta-Kon hand tool.

Cat. No.	Description	Std. Pkg.	Wt. Lbs. Per 100	Per 100
PT66M	Complete Joint	1000	4½	\$2.85
PT60M	Connector only	1000	2½	1.25
PT6M	Insulator only	1000	2	1.60

Non-Insulated

PT70	Connector only	2000	2½	1.25
PT80	4 #10 Max.	500	2½	2.80
PT70M	4 #12 Max.	2000	2½	1.25

T & B STA-KON® CONNECTORS

STA-KON® 2-WAY INSULATED CONNECTORS

For Use with WT-100M Tool



Cat. No.	Wire Size Each End	Std. Pkg.	Wt. Lbs. Per 100	Per 100
2A-20	2 #20	500	2	\$3.80
2B-16	2 #16	500	2	3.80
2C-12	2 #12	500	4	4.85

STA-KON® ONE-PIECE INSULATED PIGTAIL SPLICE

For Use with No. WT-181 Tool



Cat. No.	Size Wire	Std. Pkg.	Wt. Lbs. Per 100	Per 100
RB-44	2 #18 — 2 #16	2000	2	\$2.20
RC-55	4 #18 — 2 #12	2000	3	3.60
RP-12	3 #14 — 4 #12	1000	3	3.65

INSULATED CONNECTORS

Install with WT-100M or WT-105M Tool.

Cat. No.	Wire Size (Com'l AWG)	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
2RA18	#22, #20, #18	500	3	\$4.40
2RB14	#16, #14	1000	3	4.40
2RC10	#12, #10	500	10	6.10

STA-KON® 2-WAY CONNECTORS

For use with Stock Tools WT-100M; WT-111M and WT-115*



Cat. No.	Wire Size (Com'l AWG) Each End	Std. Pkg.	Wt. Lbs. Per 1000	Per 100
2A 18	#22 to #18	2000	2½	\$2.85
2B 14	#20 to #14	2000	2½	2.85
2C 10	#16 to #10	2000	7	3.95
*2D 8	#9, #8, #7	250	18	8.95
*2E 6	#6, #5	200	25	12.70
*2F 4	#4, #3	150	30	17.90
*2G 21	#2, #1	50	40	23.70

OK SPEED-WRAP TOOLS

For Solderless Connections



Speed-Wrap Gun with interchangeable Coiltite bits and sleeves that accommodate the proper size wire and terminal for any application, are accepted by design engineers as the simplest and best possible precision tools for making perfect solderless electrical connections. It is a hand operated precision tool of rugged, lightweight construction designed for production line or field work. Gear ratio keeps operator fatigue at a minimum. Weight: 10½ ounces.

Model G 100 Manual Speed-Wrap Gun

.....each \$36.00



Bits of various sizes are required depending on the size of wire and terminal and the height of terminal.

Coiltite Biteach \$12.45



Sleeves are required, depending on the size of wire and terminal. Coiltite sleeves are insulated and minimize shorting of adjacent terminals.

Coiltite Sleeveeach \$5.90

To make an OK Speed-Wrap connection is as simple as 1-2-3. Just Strip-Slip-Zip it's done.



Strip a prescribed solid wire to length. Insert in gun, and anchor.



Slip over terminal. Squeeze trigger easily and . . .



Zip it's done. A perfect, permanent, Speed-Wrap connection — in less than 1/10th second.

Specifications

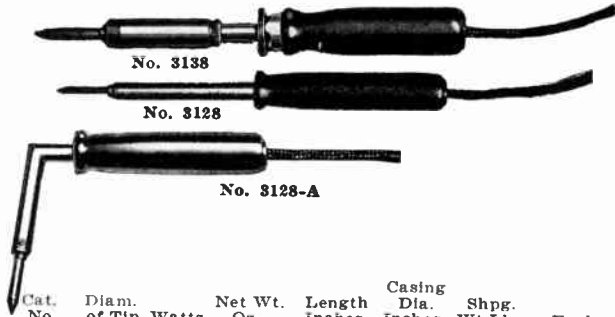
Wire Gauge	Coiltite Bit Part No.	Bore (Terminal Hole) Dia.	Depth X Y Z	Wire Lgth.	Terminal Ctrs. A	Coiltite Part No.
26	KB26	.075	1.000	2.000	.162	S26
24	KB24	.075	.625	2.000	.190	S24
22	KB22	.075	.800	2.000	.162	S22
22-24	KB224	.075	.800	2.000	.190	S224

UW-1 O.K. MACHINE & TOOL CORP.

Simple unwrapping tool rapidly removes any solderless wrapped connection.

Coiltite Unwrapping Biteach \$4.20

AMERICAN BEAUTY ELECTRIC SOLDERING IRONS



Cat. No.	Diam. of Tip	Watts	Net Wt. Oz.	Length Inches	Casing Dia. Inches	Shpg. Wt. Lbs.	Each
3125	1/4	60	7 1/2	12 1/4	1 1/8	1	\$ 7.00
3138	3/8	100	16	12 1/2	7/8	2	9.10
3158	1/2	200	28	13 3/4	1 1/4	3	11.20
3178	5/8	300	42	14 3/4	1 5/8	4	14.70
3198	1 1/4	550	60	15	1 3/4	5 1/2	18.20
3128	1/4	60	7 1/2	12 1/4	1 1/8	1	6.30
3125A	1/4	60	10	.....	1 1/8	1	7.70
3128A	1/4	60	10	.....	1 1/8	1	7.00
3138A	3/8	100	16	.....	3/8	1 1/4	9.80

Available in standard voltages and for 32 volts. No. 3138 also made for 6, 12, 24 and 64 volts. Also 130- and 150-watt input. All can be equipped with 3-conductor cord, one wire grounded, at extra cost. Separate heat-insulating stand supplied with each iron except No. 3138A.

HEXACON ELECTRIC SOLDERING IRONS

Voltage Range: 6 to 240 — Operates on A.C. or D.C., Any Cycle
Standard Voltage: 110/120, 121/130, 220/240
PLUG-TIP IRONS



Cat. No.	Watts	Tip Dia., In.	Shpg. Wt. Lbs.	Copper Tip	Each Hexclad Tip	Xtradur Tip
P-70	100	3/8	1 1/8	\$8.33	\$9.46	\$9.84
P-100	110	3/8	1 3/8	8.89	10.40	10.78
P-111	125	3/8	1 3/8	8.89	10.40	10.78
P-150	150	3/8	1 1/2	9.73	10.40	10.78
P-151	175	1/2	1 5/8	10.50	12.74	13.13
P-200	200	5/8	2 3/8	11.06	13.72	14.18
P-250	250	5/8	2 3/8	12.60	13.72	14.18
P-300	300	7/8	3	14.28	18.90	19.29
P-550	550	1 1/8	4 3/8	19.32	23.94	24.33

SPECIAL-PURPOSE SOLDERING IRONS



Hatchet Type Irons

Gives perfect balance; cradles in operator's hand. Solder in natural position, relieving arm and back fatigue. For inaccessible places.

Cat. No.	Watts	Tip Dia., In.	Shpg. Wt. Lbs.	Copper Tip	Each Hexclad Tip	Xtradur Tip
70H	100	3/8	1 3/8	\$10.50	\$12.01	\$12.39
100H	110	3/8	1 1/2	10.78	12.01	12.39
150H	150	3/8	1 5/8	11.55	12.01	12.39
151H	175	1/2	1 5/8	12.18	14.42	14.81
200H	200	5/8	2 1/4	12.67	15.33	15.79
300H	300	7/8	3	16.24	20.86	21.25

ALLEN SODERING SALTS

An all around flux in convenient powder form; just add water 3 to 5 times according to metal to be soldered. Solders all metals but aluminum. Takes a quick bite and makes the solder hold on. Non-acid. Packed in metal or glass as preferred.

Description	Each
1/2-Lb. Bottles	\$0.45
1-Lb. Bottles	.72
5-Lb. Bottles	3.20



WEN SOLDERING GUNS MODEL 250 ELECTRONIC SOLDERING GUN

250-Watt



This new transformer type soldering device heats in 3 to 5 seconds when trigger is pressed. Cools quickly when trigger is released. Operates on 250 watts, 110-120 volts A.C., 60 cycle. Built-in spotlight automatically illuminates work. Long tips reach spots otherwise inaccessible. Tips are rigid, stay tinned, are easily replaceable. Sturdily constructed — handle and case are heat and shock resistant. U.L. approved. Guaranteed for one year against defects in material or workmanship. Individually boxed in display containers, packed 3 to a carton; shipping weight, 12 lbs.

Cat. No.	Description	Each
250	Soldering Gun	\$9.71
25A4	Soldering Tip	.25
25x20	Long Life Feroloy Tip	.50
25-C1	Plastic Tile Cutting Tip	.50
25-F33	Flat Iron Tip	.60

KESTER SOLDER

KESTER ACID-CORE SOLDER



The first Acid-Core Solder — KESTER — the original Flux-Core Solder in the service field.

Per Pound	Price
1 Lb. Spool	\$1.54
5 Lb. Spool	1.50
20 Lb. Spool	1.47

KESTER SOLID WIRE SOLDER

Uniform in gauge and alloy.



% Tin	Per Pound			
	Spool			
	1#	5#	20#	50#
40	\$1.39	\$1.32	\$1.28	\$1.26
50	1.62	1.55	1.50	1.49
60	1.84	1.77	1.73	1.72
30	1.17	1.10	1.06	1.04

KESTER BAR SOLDER



Best of metals used. Definite alloy-marking. Easy flowing. Convenient and easy to handle bars that average 1 lb. each.

% Tin	Per. Lb.	% Tin	Per. Lb.	% Tin	Per. Lb.
40	\$1.25	60	\$1.70	20	\$0.806
50	1.47	30	1.03	.....	.....

ALLEN SODERING PASTE



Will not corrode nor injure in any way surfaces to which it is applied. Solder dipped into this paste is self-fluxing.

Style Package	Each
2-Oz. Cans	\$0.15
4-Oz. Cans	.20
1/2-Lb. Cans	.50
1-Lb. Cans	.70
5-Lb. Cans	2.75

IDEAL WIRE PULLING COMPOUNDS

YELLOW 77®



Yellow 77 wire pulling compound works best where the pulling is toughest. It is a yellow colored, creamy textured compound with a wax base. Not damaged by freezing. Won't dry out in the can. A dense film forms on top of remaining Yellow 77 in can, retarding drying. Applied by hand, brush or cloth. Made of exceptionally slippery wax base with additive that makes it "plate out" on wires in long runs — won't quit half way through. Doesn't "wash off" wires when pulling through water in conduit. Use on rubber or plastic covered wires or cables. For use in steel, aluminum or fibre conduit. Not for asbestos-covered wire.

Cat. No.	Description	Each
31-350	Quart (Packed 12 qts. per case).....	\$ 1.15
31-351	Gallon (Packed 4 gals. per case).....	2.75
31-353	Three Gallon	7.55
31-355	Five Gallon	11.35
31-365	55-Gal. Drum (Non-returnable).....	121.00

WIRE LUBE®



Makes wire pulling easier and saves time. Protects insulation against breaks and strains. Can be used on rubber or plastic covered wire. The lubricant can be applied by hand or brush. Wire or cable actually "rides" on a film of lubricant. U.L. approved.

Cat. No.	Description	Each
31-250	Quart (Packed 12 qts. per case).....	\$0.80
31-251	Gallon (Packed 4 gals. per case).....	2.00
31-255	Five Gallon	6.50

MINERALLAC No. 100 "PULL-IN" COMPOUND

Listed by Underwriters' Laboratories, Inc.



For use on rubber, synthetic, plastic or lead-covered wires and cables.

Minerallac's "Pull-in" Compound No. 100 was developed to cut costs and "speed up" electrical installations. It lubricates thoroughly, thus reducing tensions on hard pulls and facilitating easy pulling of wires and cables into conduits. Free of injurious ingredients.

Price Per Can.....	12 per Case		6 per Case		
	Pints	Quarts	1/2 Gal.	1 Gal.	5 Gal.
	\$0.50	\$0.85	\$1.50	\$2.00	\$8.25

Y-ER EAS LUBRICANT

FOR PULLING ELECTRIC CABLES



Y-ER EAS (wire ease) is a smooth creamy lubricant which dries rapidly in the air and in so doing shrinks in volume and becomes a light powder. Use on Lead-Rubber-Synthetic covered cables. Do not use on Asbestos covered cables.

Y-ER EAS has no injurious effects on insulation fabrics or conduits and is clean and easy to handle. It is not a grease. It will not spot wood or marble nor will it have any injurious effects on hands or clothing.

Y-ER EAS is packed in pails in the following quantities:

1 qt. can (1 1/2 lbs. approx.).....	per can	\$0.80
1 gal. pail (5 lbs. approx.).....	per pail	2.00
2 gal. pail (11 lbs. approx.).....	per pail	4.60
3 gal. pail (14 lbs. approx.).....	per pail	5.35
4 gal. pail (19 lbs. approx.).....	per pail	6.00

55 gal. drum (250 lbs. approx.).....price by quotation from local Graybar office

Y-ER EAS carries the UL and Union labels.

BURNDY CABLE LUBRICANT

SLIKON WIRE-PULLING COMPOUND



Recommended for use on rubber, plastic covered (except Polyethylene) or lead covered wires to be installed in steel, aluminum or other recommended conduits. Slikon is a permanent lubricant—even years later if it becomes necessary to remove a cable, the compound still acts as a lubricant.

Will not evaporate in the can. Will not stain hands or clothing—excess compound can be removed by washing with water.

Cat. No.	Net Wt. and Packaging	Price Each
Qt. -Slikon	2 lbs. in Quart Cans	\$0.90
Gal. -Slikon	9 lbs. in Gallon Cans	2.88
5 Gal. -Slikon	40 lbs. in 5 Gallon Pails	11.20

Also available in 55 Gal. Drums, prices on application.

CRC 2-26



CRC 2-26 drives out moisture, then forms molecular barrier to seal it out. Stops rust and prevents further destructive corrosion action. Restores electrical characteristics to original values. Keeps all electrical equipment operating like new. Low in toxicity. Non-staining, non-corrosive. Reduced downtime, improved efficiency, increased operational life of equipment, will return its cost many times over.

Size	Each
16 Oz. Aerosol Can.....	\$ 2.50
1 Gallon Liquid	7.00
5 Gallon Liquid	34.00
55 Gallon Liquid	340.00

CO CONTACT CLEANER

CO Contact Cleaner has split-second microscopic cleaning action. Removes moisture, dust, dirt, oils from high-precision electronic equipment, precious metal contacts, and components. Penetrates into tiny cracks and crevices. Leaves no residue or causes no solvent action on base materials. Maintains precision values. Highly stable. Equipped with plastic extension tube, reaches hard-to-get-at-places. Extremely safe to use and handle. Apply any place where delicate cleaning is necessary.



16 Oz. Aerosol Can CO Contact Cleaner...each \$2.50

CRC LECTRA-CLEAN



CRC Lectra Clean used on high voltage equipment (110 volts and above) to remove dirt, wax, oil, contaminants, moisture. Cleans fast — then evaporates. Non-flammable vapors or residues. No flash or fire point. Low in toxicity. Much safer than carbon tetrachloride. Non-conducting. Harmless to metal substrates. After cleaning with Lectra Clean, use CRC 2-26 to protect against future electrical failures.

Size	Each
24 Oz. Aerosol Can.....	\$ 2.50
1 Gallon Can	7.50
5 Gallon Can	36.00
55 Gallon Drum	350.00

CRC LECTRA-SHIELD

Lectra-Shield provides long-lasting, low-cost protection against corrosion for electrical equipment — prevents deterioration caused by moisture and corrosion. It is specially formulated for durability and is easy to apply, economical to use, and easy to remove with steam or standard solvents.



Size	Each
16 Oz. Aerosol Can.....	\$ 2.50
1 Gallon Can	7.00
5 Gallon Can	34.00
30 Gallon Drum	190.00
55 Gallon Drum	340.00

CRC URETHANE SEAL COAT



Urethane Seal Coat is a permanent, flexible hard insulating film for electrical and electronic parts and equipment. Mar and abrasion resistant. One component —no catalyst. Unlimited shelf life. Resistant to acids, oils, alkali salts, corrosive atmospheres, chemicals. Use on printed circuits, URD transformer connectors and electrical equipment. Acts as insulation type varnish. Compatible with transformer oil. Temperature range from -90° to +300° F. (Class B Insulator)

Size	Each
3 Oz. Aerosol Can	\$.85
16 Oz. Aerosol Can	2.50
1 Gallon Can	10.00
5 Gallon Can	42.00
55 Gallon Drum	380.00

BUSS TAP FUSES

For Use in Trolley Taps in Mine Service

BRT and BRW Tap fuses are of a new and improved design. They will open the circuit promptly to guard against the cable insulation flaming up or the cable burning through when a fault develops in the trailing cable.

They also guard against useless outages when motors start as they have a time-lag long enough to hold all normal motor starting currents.

BRT and BRW tap fuses have a very high interrupting capacity. They have been tested on a circuit set to deliver up to 8000 amperes at 600 volts direct current.

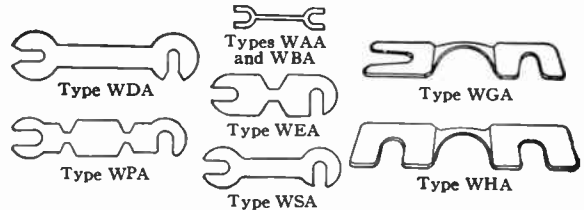
There are two types of contacts. BRT fuses have ferrule contacts. They can be used in the usual type trolley tap holders.

BRW fuses are designed to eliminate heating troubles in the fuse holder. Contact is made by a stud at each end of the fuse threading into the holder. This insures positive contact between the fuse and holder for the life of the holder.

Maintaining good contact prevents the useless outages so often caused by fuses blowing due to the heat from poor contact.

	BRT	BRW
Usual Amperages	Each	Each
20-30-35-40-50-60	\$0.73	\$1.03
70-80-100 .....	.77	1.06
125-150-175-200-225 .....	.88	1.13
250-275-300-350-400 .....	.88	1.13

STAMPED OPEN LINK FUSES



Types WGA and WHA usually made of copper. All other types usually made of zinc.

Type	Old No.	Center to Center In.	Slot In.	Maximum Width of Terminal Portion In.	Usual Amperages	Each
WAA	A	1 1/4	1/8	3/4		\$0.058
WBA	B	1 5/8	3/8	1 1/2		.058
WSA	S	1 3/4	1/8	3/4	20 to 200	.07
WDA	D	2 7/8 to 2 5/8	1/4	7/8	30 to 200	.072
WPA	P	2 3/8	3/2	3 1/2	30 to 150	.07
WGA	G	2 3/8	1/8	1	35 to 100	.21
WHA	H	3	1/8	2	500 to 1500	.73
WEA	66A	1 1/8	1/4	3/4	75 or 125	.072

Quantity discounts available. Contact Graybar.

BUSS CLEAR WINDOW PLUG FUSES



Carry Underwriters' Laboratories listed label.

Buss fuses have an extra large, clear window which makes it easy to see if fuse is blown.

Metal cap protects fuse against chipping that might cut fingers or weaken fuse. Buss fuses are shockproof — insulated with porcelain and mica like high voltage power lines. They will always fit in holder as there is no solder lump on outside to cause trouble.

Packed 5 in a colorful carton that carries complete information on why fuses blow and what to do when they do blow.



Sym- bol	Amp.	Wt. Lbs. per 100	Each	Sym- bol	Amp.	Wt. Lbs. per 100	Each
W3	3	6½	\$0.075	W15	15	6½	\$0.068
W5	5	6½		W20	20	6½	
W6	6	6½		W25	25	6½	
W8	8	6½		W30	30	6½	
W10	10	6½					

BUSS dual-element PLUG FUSES

0 TO 14 AMPERE



Fusetron fuses, like Fustat fuses, can be used to protect motors or apparatus against burnout. Have Edison base — hence insurance and inspection authorities and Underwriters' Laboratories do not recommend their use because all protection is lost if Fusetron or ordinary fuses of too large a size are used. Fustat fuses, because of their non-tamperable feature, are recommended for this work.

Amp.	Symbol	Each	Amp.	Symbol	Each
1	T1	\$0.17	5	T5	\$0.17
1¼	T1¼		5½	T5½	
1⅝	T1⅝		6¼	T6¼	
2	T2		8	T8	
2½	T2½		10	T10	
3⅝	T3⅝	12	T12		
4	T4	14	T14		

Packed 4 in a carton, weight 6¼ lbs. per 100.

15 TO 30 AMPERE

15 ampere Fusetron dual-element fuses provide safe protection. They won't blow on motor-starting current or any current which lasts only a short time, because of their thermal element, yet they protect on dangerous overloads or short-circuits.

20, 25 and 30 amp. sizes for use on appliance circuits or mains give the same kind of protection against useless blows. Carry Underwriters' Laboratories listed label. For voltages up to 125. Packed 4 in a colorful carton.



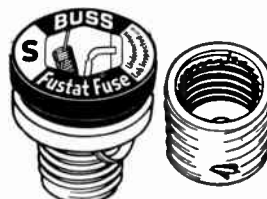
Amp.	Symbol	Each	Amp.	Symbol	Each
15	T15	\$0.09	25	T25	\$0.09
20	T20		30	T30	

Packed 4 in a box. weight 6¼ lbs. per 100.

BUSS FUSTAT FUSES

0 TO 14 AMPERE

To Protect Against Burned-Out Motors and Apparatus of Voltages up to 125



Fustat Fuse Adapter

Protect motors against burnout from such things as dry bearings, overload, etc. Prevent costly repair bills.

For size to use, get ampere rating of motor or apparatus from name plate, and install a Fustat fuse

of a size nearest to that figure. Then if device is in danger of burnout, the Fustat fuse will open. Also protects like a fuse against short-circuit.

Have non-tamperable base — which prevents anyone replacing them with a penny or readily bridging them — and prevents the use of sizes too large to protect.

Fustat fuses fit all regular plug fuse holders through the use of an inexpensive adapter which locks in place.

Carry Underwriters' Laboratories Label and have the same degree of approval for motor-running protection as the most expensive devices made.

Packed 4 in a carton, carrying complete instructions. Fustat fuse weight 5¼ lbs. per 100.

Amp.	FUSTAT FUSE		ADAPTER	
	Symbol	Each	Symbol	Each
1	S1	\$0.17	SA1	\$0.115
1¼	S1¼		SA1¼	
1⅝	S1⅝		SA1⅝	
2	S2		SA2	
2¼	S2¼		SA2¼	
2½	S2½		SA2½	
3⅝	S3⅝		SA3⅝	
4	S4		SA4	
5	S5		SA5	
5⅝	S5⅝		SA5⅝	
6¼	S6¼		SA6¼	
8	S8		SA8	
10	S10		SA10	
12	S12		SA15	
14	S14	SA15		

Many other sizes from 3/0 to 9 amperes can be obtained. Adapters not included with Fustat fuses — must be ordered separately. Adapter weight 3⅝ lbs. per 100.

15 TO 30 AMP. — FOR CIRCUIT PROTECTION

Operates like Fusetron dual-element Plug Fuses Non-tamperable (Type S) Base

The Fustat fuse is Bussmann's dual element fuse with type "S" base. It has a fuse link and a thermal cutout. Makes safe protection remain safe. Stops loss of money on needless "blown-fuse" service calls. Stops use of pennies or slugs; practically impossible to bridge with tinfoil, wire or any other material. A 20, 25, or 30 ampere size will not fit in a 15-ampere receptacle or adapter. Can be used in Edison base receptacles by use of adapter. Adapters not included with Fustat fuses, must be ordered separately. Listed by Underwriters' Laboratories as Type S fuses, in 15 to 30 amp. sizes. For circuit protection on voltages up to 125. Fustat fuse weight 5¼ lbs. per 100. Adapter weight 3⅝ lbs. per 100.

Amp.	FUSTAT FUSE		ADAPTER	
	Symbol	Each	Symbol	Each
15	S15	\$0.13	SA15	\$0.115
20	S20		SA20	
25	S25		SA30	
30	S30			

Quantity discounts available. Contact Graybar.

FUSETRON dual-element FUSES
250 AND 600 VOLT



Have tremendous time-lag and much less electrical resistance.

For circuit protection use same size as ordinary fuses. Their long time-lag prevents useless shut-downs caused by ordinary fuses opening on starting currents or other harmless overloads — yet they protect against short-circuits.

For motor protection use size about 100 to 125% of motor running current. On normal installations they will guard motor against burnout from overloads or single phasing.

Reduce heating in switches and panels. Operate cooler than any other type fuse. Prevent needless blows and heat damage.

Save space and money on new installations because smaller size switches or panels can be used.

U. L. listed and approved for both motor-running and circuit protection.

250 Volt				600 Volt			
Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton	Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton
FRN 1/10	3 1/2		10	FRS 1/10	14		
FRN 15/100	3 1/2		10	FRS 15/100	14		
FRN 2/10	3 1/2		10	FRS 2/10	14		
FRN 3/10	3 1/2		10	FRS 3/10	14		
FRN 4/10	3 1/2		10	FRS 4/10	14		
FRN 1/2	3 1/2		10	FRS 1/2	14		
FRN 6/10	3 1/2		10	FRS 6/10	14		
FRN 8/10	3 1/2		10	FRS 8/10	14		
FRN 1	3 1/2		10	FRS 1	14		
FRN 1 1/8	3 1/2		10	FRS 1 1/8	14		
FRN 1 1/4	3 1/2		10	FRS 1 1/4	14		
FRN 1 4/10	3 1/2		10	FRS 1 4/10	14		
FRN 1 6/10	3 1/2		10	FRS 1 6/10	14		
FRN 1 8/10	3 1/2		10	FRS 1 8/10	14		
FRN 2	3 1/2		10	FRS 2	14		
FRN 2 1/4	3 1/2		10	FRS 2 1/4	14		
FRN 2 1/2	3 1/2	\$0.36	10	FRS 2 1/2	14	\$0.84	
FRN 2 8/10	3 1/2		10	FRS 2 8/10	14		
FRN 3 2/10	3 1/2		10	FRS 3 2/10	14		
FRN 3 1/2	3 1/2		10	FRS 3 1/2	14		
FRN 4	3 1/2		10	FRS 4	14		
FRN 4 1/2	3 1/2		10	FRS 4 1/2	14		
FRN 5	3 1/2		10	FRS 5	14		
FRN 5 6/10	3 1/2		10	FRS 5 6/10	14		
FRN 6 1/4	3 1/2		10	FRS 6 1/4	14		
FRN 7	3 1/2		10	FRS 7	14		
FRN 8	3 1/2		10	FRS 8	14		
FRN 9	3 1/2		10	FRS 9	14		
FRN 10	5		10	FRS 10	16		
FRN 12	5		10	FRS 12	16		
FRN 15	5		10	FRS 15	16		
FRN 17 1/2	5		10	FRS 17 1/2	16		
FRN 20	5		10	FRS 20	16		
FRN 25	5		10	FRS 25	16		
FRN 30	5		10	FRS 30	16		
FRN 35	12		10	FRS 35	26		
FRN 40	12		10	FRS 40	26		
FRN 45	12	.69	10	FRS 45	26	1.44	
FRN 50	12		10	FRS 50	26		
FRN 60	12		10	FRS 60	26		
FRN 70	35		5	FRS 70	56		
FRN 80	35	1.61	5	FRS 80	56	3.09	
FRN 90	35		5	FRS 90	56		
FRN 100	35		5	FRS 100	56		
FRN 110	88		1	FRS 110	125		
FRN 125	88		1	FRS 125	125		
FRN 150	88	3.49	1	FRS 150	125	6.09	
FRN 175	88		1	FRS 175	125		
FRN 200	88		1	FRS 200	125		
FRN 225	182		1	FRS 225	305		
FRN 250	182		1	FRS 250	305		
FRN 300	182	6.36	1	FRS 300	305	12.20	
FRN 350	182		1	FRS 350	305		
FRN 400	182		1	FRS 400	305		
FRN 450	304		1	FRS 450	480		
FRN 500	304	9.66	1	FRS 500	480	17.53	
FRN 600	304		1	FRS 600	480		

BUSS ONE-TIME FUSES

NON-RENEWABLE



1 to 60 ampere

70 to 600 ampere

Carry Underwriters' Laboratories listed label.

The best guarantee of dependable protection for the user and insurance against loss of profits for the dealer is the BUSS Trade-Mark. It is KNOWN and recognized everywhere as standing for the highest quality in fuses.

BUSS One-Time fuses get the same engineering and care in manufacture as other products carrying the BUSS trade-mark—hence each and every BUSS One-Time fuse can be depended on to operate as intended.

For Voltages up to 250 Volts				For Voltages up to 600 Volts			
Symbol and Amperes	Lgth. Ins.	Car. Qty.	Each	Symbol and Amperes	Lgth. Ins.	Car. Qty.	Each
NON1				NOS1			
NON3				NOS3			
NON6				NOS6			
NON10				NOS10			
NON15	2	10	\$0.10	NOS15	5	10	\$0.54
NON20				NOS20			
NON25				NOS25			
NON30				NOS30			
NON35				NOS35			
NON40				NOS40			
NON45	3	10	.20	NOS45	5 1/2	10	.79
NON50				NOS50			
NON60				NOS60			
NON70				NOS70			
NON80	5 7/8	5	.86	NOS80	7 7/8	5	1.76
NON90				NOS90			
NON100				NOS100			
NON110				NOS110			
NON125				NOS125			
NON150	7 7/8	1	1.95	NOS150	9 5/8	1	3.41
NON175				NOS175			
NON200				NOS200			
NON225				NOS225			
NON250				NOS250			
NON300	8 5/8	1	3.54	NOS300	11 5/8	1	6.83
NON350				NOS350			
NON400				NOS400			
NON450				NOS450			
NON500	10 3/8	1	5.35	NOS500	13 3/8	1	9.79
NON600				NOS600			

BUSS ONE-TIME MIDGET FUSES

*250 Volt, 3/8 x 1 1/2 inch. Are made with the same engineering and care as all products carrying the BUSS trade mark — hence provide dependability and accuracy.



Symbol and Amperes	Car-ton Qty.	Wt. Lbs. Per 100	Each
*BAF 1			
*BAF 3			
*BAF 6			
*BAF 10	10	1.3	\$0.10
*BAF 15			
†BAF 20			
†BAF 25			
†BAF 30			

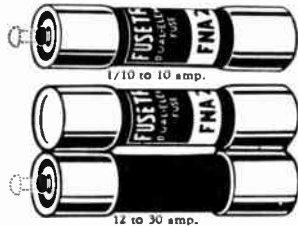
*Listed by Underwriters' Laboratories, Inc. †125 Volt.

Quantity discounts available. Contact Graybar.

BUSS FUSES

FIBRE TUBE FUSETRON FUSES

13/32 x 1 1/4-Inches
Signal or Visual Indicating Type



FNA are FNM Fusetron fuses with silver plated indicating pin which extends from fuse when fuse is blown. In sizes up to 10 amperes can be used in Buss HPC-C fuseholder or if desired pin can be used to actuate a signal by using fuses in Buss Signal fuse block.

Fuses in sizes larger than 10 ampere have a dual tube construction. They can be used in Buss Signal fuse blocks but not in the HPC-C fuseholder.

0 to 15 amperes sizes listed by Underwriters' Laboratories, Inc.

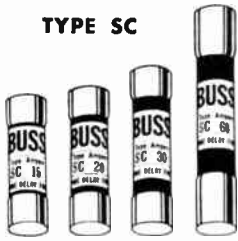
Voltage	Symbol	Amperes
250 or less	FNA	1/10, 15/100, 2/10, 3/10, 4/10, 1/2, 6/10 or 8/10
125 or less	FNA	1, 1 1/4, 1 1/2, 1-4/10, 1-6/10, 1-8/10, 2, 2 1/4, 2 1/2, 2-8/10, 3, 3-2/10, 3 1/2, 4, 4 1/2, 5, 5-6/10, 6, 6 1/4, 7, 8, 10, 12 or 15
32 or less	FNA	20, 25 or 30

0 to 10 amps. Carton quantity 10. Shipping weight 1.5 lbs. per 100.

12 to 30 amps. Carton quantity 5. Shipping weight 3 lbs. per 100.

FNA 1/10 to 10 amp.	\$0.55
FNA 12 to 30 amp.	.61

TYPE SC



Designed to meet the protection requirements of the ever increasing electrical load in homes, commercial and industrial locations.

Interrupting rating of 100,000 amperes at 300 volts or less to ground. Can safely handle heavy fault currents on 120/208, 120/240 and 277/480 volt circuits.

High degree of current limitation prevents damage to circuits, motors, appliances or equipment on heavy short-circuits.

Long time delay prevents needless interruption of service often caused by protective devices opening on motor starting currents or other harmless overloads.

Note: Type SC fuses in sizes under 6 ampere have normal opening time characteristics without built-in extra time delay. They may be used where quick acting fuses are desired.

Type SC fuses are 3/16" in diameter but their lengths vary with the ampere rating. This avoids possible errors in replacing fuses. Color coded to assist in identifying right ampere fuses.

Symbol	Amps.	Length Inches	Dia of Tube, Ins.	Ctn. Quan.	Each
SC 1	1	1 1/8	3/16	4	\$0.21
SC 3	3	1 1/8	3/16	4	.21
SC 5	5	1 1/8	3/16	4	.21
SC 6	6	1 1/8	3/16	4	.21
SC10	10	1 1/8	3/16	4	.13
SC15	15	1 1/8	3/16	4	.13
SC20	20	1 1/2	3/16	4	.13
SC25	25	1 5/8	3/16	4	.334
SC30	30	1 5/8	3/16	4	.334
SC35	35	2 1/4	3/8	2	.50
SC40	40	2 1/4	3/8	2	.50
SC45	45	2 1/4	3/8	2	.50
SC50	50	2 1/4	3/8	2	.50
SC60	60	2 1/4	3/8	2	.50

Quantity discounts available. Contact Graybar.

BUSS FUSES

FIBRE TUBE FUSETRON FUSES

13/32 x 1 1/4-Inches
Dual-Element Type



These fuses avoid needless blows from starting currents or surges. They have a fuse link which operates only on very high overloads or short circuits—they have a thermal cutout which functions on low overloads—the thermal cutout cannot operate quickly at any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

Test specification—carry 110%, open at 135% in 1 hour.

Approximate blowing time: at 200% load, 25 seconds; at 300% load, 8 seconds; at 500% load, 3 seconds. 125 and 250 volt listed as approved by Underwriters' Laboratories, Inc.

250 Volts or Less		125 Volts or Less	
Symbol and Amperes	Symbol and Amperes	Symbol and Amperes	Symbol and Amperes
FNM 1/10	FNM 1 1/4	FNM 12	FNM 15
FNM 15/100	FNM 1-6/10	FNM 15	FNM 20
FNM 2/10	FNM 2	FNM 20	FNM 25
FNM 3/10	FNM 2 1/2	FNM 25	FNM 30
FNM 4/10	FNM 3-2/10		
FNM 1/2	FNM 4		
FNM 6/10	FNM 5		
FNM 8/10	FNM 6 1/4		
FNM 1	FNM 8		
	FNM 10		

FNM 1/10 to 30 amp. Each \$0.30

FUSE AND HOLDER COMBINATIONS

Non-Indicating — In-The-Line or Panel Mounted For Voltages of 300 or Less



In these fuse and holder combinations the fuse and knob are in one piece. When fuse blows, the entire fuse-knob assembly is replaced. Safeguards against use of wrong type of fuse.

Type HLR Fuseholder	Each \$0.18
No. 6374 Snap-In Steel Clip for mounting HLR	.019

GLR BUSS GLASS TUBE FUSES
Single-Element — Quick-Blowing Type For HLR Fuseholders

Symbol & Amperes	Each	Symbol & Amperes	Each
300 Volts or Less			
GLR 1/2	\$0.19	GLR 4	\$0.10
GLR 1	.10	GLR 5	.10
GLR 1 1/4	.10	GLR 6	.10
GLR 1-6/10	.10	GLR 7	.11
GLR 2	.10	GLR 8	.11
GLR 2 1/4	.10	GLR 9	.11
GLR 3	.10	GLR 10	.11

For "slow-blowing" type for HLR holder specify symbol GMF.

1/2 to 6 1/4 amp. Each \$0.29

HJM FUSEHOLDER

For 1/4 x 1 Inch Fuses

Normal current carrying capacity 30 amperes. Knob grips fuse tightly and pulls it from the holder when knob is removed. Listed by Underwriters' Laboratories, Inc. for 5 ampere rating for any voltage up to 125.

Type	Mounting	Fuse Voltage	Normal Current Carrying Capa.	Each
HJM	Panel	125 or less	30	\$0.37

HCM FUSEHOLDER

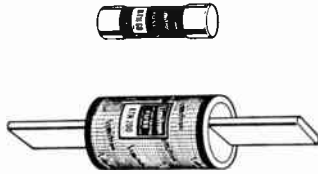
For 9/32 x 1 1/4 and 1/4 x 1 1/4 Inch Fuses

Normal current carrying capacity 18 amperes. Knob grips 9/32 x 1 1/4 fuse tightly and pulls it from holder when knob is removed. 1/4 x 1 1/4 inch fuse is not held by knob but extends from holder when knob is removed.



Type	Mounting	Fuse Voltage	Normal Current Carrying Capa.	Each
HCM	Panel	250 or less	18	\$0.52

LIMITRON FUSES



Limitron fuses have exceptionally fast opening characteristics. Their high speed operation limits fault currents to very low values. Limitron fuses have an interrupting rating of 200,000 amperes in both 250 and 600 volt ranges.

Limitron fuses are designed to protect circuit breakers from fault currents of values beyond the interrupting capacity of the breaker. Due to the fault current limitation provided by these fuses, contactors, starters and other components are not subjected to excessive stresses when high capacity short circuits occur.

When short circuits occur and fast opening of the protective device is needed to protect delicate instruments, Limitron fuses can be relied upon to do the job.

Limitron fuses are made to fit all standard fuseholders. When ordering, specify symbol and amperage.

KTN For 250 Volts or Less				KTS For 600 Volts or Less			
Amperes	Wt. Lbs. Per 100	Each	Car-ton	Amperes	Wt. Lbs. Per 100	Each	
1				1			
3				3			
6				6			
10	4½	\$0.90	10	10	15	\$1.17	
15				15			
20				20			
25				25			
30				30			
<hr/>							
35				35			
40				40			
45	14½	2.19	10	45	31	2.63	
50				50			
60				60			
<hr/>							
70				70			
80	46	5.03	1	80	59	6.13	
90				90			
100				100			
<hr/>							
125				125			
150	121	10.15	1	150	150	12.33	
175				175			
200				200			
<hr/>							
225				225			
250				250			
300	240	19.10	1	300	306	21.73	
350				350			
400				400			
<hr/>							
450				450			
500	404	24.29	1	500	480	28.09	
600				600			

CLASS J LIMITRON FUSES

600 Volts Symbol JKS

Amperes	Wt. Lbs. Per 100	Each	Car-ton
1, 3, 6, 10, 15, 20, 25, 30	3¾	\$1.26	10
35, 40, 45, 50, 60	12	2.05	5
70, 80, 90, 100	43¾	3.15	1
125, 150, 175, 200	112½	5.88	1
225, 250, 300, 350, 400	237½	13.44	1
450, 500, 600	400	18.90	1

HI-CAP FUSES



Hi-Cap fuses have interrupting rating of 200,000 amperes on any voltage up to 600—provide safe fuse protection for loads above 600 and up to 6,000 amperes.

The high-speed operation of specially designed, pure silver links combines with the arc-clinching action of a chemically inert filler in the Hi-Cap fuse case to limit let-through current on short circuits. Destructive forces normally resulting from heavy short circuits are confined to safe values by Hi-Cap fuses.

Exhaustive laboratory and field tests prove Hi-Cap fuses can be depended upon to minimize damage to equipment and cut down dangerous stresses in transformers. Since they have no moving parts, time or service conditions cannot affect their accuracy—costly inspection or maintenance is eliminated.

Hi-Cap fuses prevent major shutdowns when their blowing time is co-ordinated with that of Fusetron fuses in feeders and branch circuits.

To order Hi-Cap fuses, give symbol and amperages. This will assure that fuses with correct terminals and right voltage will be furnished.

Amperes	Symbol		Each
	Symbol	Symbol	
650	\$ 66.15	KRC	\$ 51.19
800	66.15	KRE	51.19
1000	66.15	KRF-C	51.19
1200	66.15	KRP	51.19
		KRP-C	
		KRR-C	
<hr/>			
1500	96.34		68.57
1600	96.34		68.57
1800	127.31		85.68
2000	127.31		85.68
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2500	150.15		107.63
3000	150.15		128.63
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3500	198.56		171.15
4000	198.56		171.15
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4500	228.38		214.00
5000	228.38		214.00
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6000		257.25*

*KRP, KRF and KRC only.
KLF and KRF are available only in sizes up to 2000 amperes.
Sizes not listed are available in amperages from 601 to 6000.

CLASS J HI-CAP FUSES

600 Volts Symbol JHC

Amperes	Wt. Lbs. Per 100	Each	Car-ton
15, 20, 25, 30	10¾	\$1.39	10
35, 40, 45, 50, 60	20½	2.51	10
70, 80, 90, 100	42	5.81	1
110, 125, 150, 175, 200	91	11.72	1
225, 250, 300, 350, 400	236½	22.86	1
450, 500, 600	376	29.56	1

Quantity discounts available. Contact Graybar.

LOW-PEAK FUSES

Current-Limiting—Dual-Element
250 and 600 Volt



0 to 60 Ampere

70 to 600 Ampere

Safely interrupt fault currents up to 200,000 amperes. Limit fault current to very low values. Hold 500% load for minimum of ten seconds.

Low-Peak fuses can completely revolutionize the protection of the entire electrical system.

Protect Mains, Feeders, Branch Circuits, Motors, Controllers, Switches—no matter whether the fault current is 1,000 amperes, 25,000, 100,000— or as high as 200,000 amperes.

Reduce stresses and prevent damage to Panelboards, Switches, Motor Controllers—other circuit components—because let-thru fault currents are limited to exceptionally low values.

Fuses fit standard switches and panelboards. Permit increasing interrupting capacity and current limitation on present system at minimum cost.

For circuit protection use same size as ordinary fuses. Their long time-lag prevents useless shut-downs caused by ordinary fuses opening on starting currents or other harmless overloads—yet they protect against short-circuits.

For motor protection use size about 100 to 125% of motor running current. On normal installations they will guard motor against burn-out from overloads or single phasing.

U. L. listed for both motor-running and circuit protection.

250 Volts				600 Volts			
Symbol and Amperes	Lgth. Ins.	Car. Quan.	Each	Symbol and Amperes	Lgth. Ins.	Car. Quan.	Each
LPN 1/10				LPS 1/10			
LPN 15/100				LPS 15/100			
LPN 2/10				LPS 2/10			
LPN 3/10				LPS 3/10			
LPN 4/10				LPS 4/10			
LPN 1/2				LPS 1/2			
LPN 6/10				LPS 6/10			
LPN 8/10				LPS 8/10			
LPN1				LPS1			
LPN1-1/8				LPS1-1/8			
LPN1-1/4				LPS1-1/4			
LPN1-4/10				LPS1-4/10			
LPN1-6/10				LPS1-6/10			
LPN1-8/10				LPS1-8/10			
LPN2				LPS2			
LPN2-1/4				LPS2-1/4			
LPN2-1/2				LPS2-1/2			
LPN2-8/10	2	10	\$0.93	LPS2-8/10	5	10	\$1.23
LPN3-2/10				LPS3-2/10			
LPN3-1/2				LPS3-1/2			
LPN4				LPS4			
LPN4-1/2				LPS4-1/2			
LPN5				LPS5			
LPN5-6/10				LPS5-6/10			
LPN6-1/4				LPS6-1/4			
LPN7				LPS7			
LPN8				LPS8			
LPN9				LPS9			
LPN10				LPS10			
LPN12				LPS12			
LPN15				LPS15			
LPN17 1/2				LPS17 1/2			
LPN20				LPS20			
LPN25				LPS25			
LPN30				LPS30			
LPN35				LPS35			
LPN40				LPS40			
LPN45	3	10	2.29	LPS45	5 1/2	10	2.79
LPN50				LPS50			
LPN60				LPS60			

Quantity discounts available. Contact Graybar

LOW-PEAK FUSES

Current-Limiting—Dual-Element
250 and 600 Volt
(Continued)

250 Volts				600 Volts			
Symbol and Amperes	Lgth. Ins.	Car. Quan.	Each	Symbol and Amperes	Lgth. Ins.	Car. Quan.	Each
LPN70				LPS70			
LPN80	5 3/8	5	\$5.40	LPS80	7 3/8	5	\$6.45
LPN90				LPS90			
LPN100				LPS100			
LPN125				LPS125			
LPN150	7 1/8	1	10.67	LPS150	9 5/8	1	13.03
LPN175				LPS175			
LPN200				LPS200			
LPN225				LPS225			
LPN250				LPS250			
LPN300	8 5/8	1	20.09	LPS300	11 1/8	1	22.86
LPN400				LPS350			
				LPS400			
LPN450				LPS450			
LPN500	10 3/8	1	25.66	LPS500	13 1/8	1	29.56
LPN600				LPS600			

HIGH INTERRUPTING CAPACITY FUSES

13/32 x 1 1/2 Inch

Especially designed for use on circuits capable of delivering currents as high as 100,000 amperes at voltages of 600 or less AC.

Test specifications—Carry 110%, open at 135% in 1 hour or less.

Symbol and Amperes Each
KTK 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25 or 30 \$1.02
Ctn. 10; shelf pkg. 100; shpg. wt. 1 1/2 lbs. per 100.

BUSS WELDER LIMITERS

Fit Standard N.E.C. Fuseholders
600 Volts or Less, AC Only



These limiters are special current-limiting devices designed for use on welder circuits only.

Their time-current characteristics are such that they will hold on the intermittent overloading encountered in welder operation, while providing short-circuit protection to the circuit and equipment.

By reason of these special characteristics, they are not intended for application on general-use circuits, where heating of panels or switches could be caused by continuous loading beyond the rating of the switch.

BUSS Welder Limiters are made to fit N.E.C. clip spacing and are available in the following sizes.

Limiter Catalog Number	Nominal Ampere Rating	Prices on Request
68150	150	
68200	200	
68400	400	
68600	600	

NOTE: Can also furnish special BUSS Limiters used to protect resistance welder circuits—such as BUSS type KAL, & 64000 series. Let us send BUSS representative to see you for application data requirements.

SUPER-LAG RENEWABLE FUSES

N. E. C. Standard



3 to 60 Amperes



70 to 600 Amperes

Reduce to extent not possible with other renewable fuses, number of shutdowns caused by needless blows. Patent fuse-case and Super-Lag link make this possible. Save time and money and decrease out-of-service losses.

Costs often cut in half on new motor installations as Code (Paragraph 4346) in many cases permits smaller size fused safety switches, fuse panels for fuse blocks if Super-Lag fuses are used.

Every Super-Lag fuse carries Underwriters' Laboratories, listed label.

250-Volt Fuses				600-Volt Fuses			
Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton	Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton
REN1	5.5		10	RES1	18		
REN2	5.5		10	RES2	18		
REN3	5.5	\$0.54	10	RES3	18	\$1.32	
REN4	5.5		10	RES4	18		
REN5	5.5		10	RES5	18		
REN6	5.5		10	RES6	18		
REN10	5.5		10	RES10	18		
REN15	5.5	.51	10	RES15	18	1.25	
REN20	5.5		10	RES20	18		
REN25	5.5		10	RES25	18		
REN30	5.5		10	RES30	18		
REN35	14		10	RES35	36		
REN40	14		10	RES40	36		
REN45	14	1.01	10	RES45	36	1.99	
REN50	14		10	RES50	36		
REN60	14		10	RES60	36		
REN70	46		5	RES70	83		
REN80	46		5	RES80	83		
REN90	46	2.22	5	RES90	83	4.49	
REN100	46		5	RES100	83		
REN110	109		1	RES110	183		
REN125	109		1	RES125	183		
REN150	109	4.98	1	RES150	183	8.68	
REN175	109		1	RES175	183		
REN200	109		1	RES200	183		
REN225	266		1	RES225	373		
REN250	266		1	RES250	373		
REN300	266	8.94	1	RES300	373	14.49	
REN350	266		1	RES350	373		
REN400	266		1	RES400	373		
REN450	313		1	RES450	375		
REN500	313	13.68	1	RES500	375	20.69	
REN600	313		1	RES600	375		

SUPER-LAG RENEWAL FUSE-LINKS



3 to 60 Amperes



70 to 600 Amperes

Super-Lag design gives BUSS Links a long time-lag that reduces number of blows on starting currents or other harmless overloads.

Give better protection because they permit fusing nearer to load.

Come in one piece in all sizes. This makes renewal handy and prevents poor contact developing while fuse is in use.

Packed in small quantity in sealed boxes for convenience and to prevent dust, moisture or oxidation from affecting them.

Interchangeable with all makes of standard fuse links.

250-Volt Links				600-Volt Links			
Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton	Symbol and Amperes	Wt. Lbs. Per 100	Each	Car-ton
LKN-1	.25		20	LKS1	1		
LKN2	.25		20	LKS2	1		
LKN3	.25	\$0.061	20	LKS3	1	\$0.14	
LKN4	.25		20	LKS4	1		
LKN5	.25		20	LKS5	1		
LKN6	.25		20	LKS6	1		
LKN10	.25		20	LKS10	1		
LKN15	.25	.025	20	LKS15	1	.061	
LKN20	.25		20	LKS20	1		
LKN25	.25		20	LKS25	1		
LKN30	.25		20	LKS30	1		
LKN35	1		20	LKS35	3		
LKN40	1		20	LKS40	3		
LKN45	1	.051	20	LKS45	3	.10	
LKN50	1		20	LKS50	3		
LKN60	1		20	LKS60	3		
LKN70	2		10	LKS70	5		
LKN80	2		10	LKS80	5		
LKN90	2	.112	10	LKS90	5	.22	
LKN100	2		10	LKS100	5		
LKN110	5		5	LKS110	14		
LKN125	5		5	LKS125	14		
LKN150	5	.25	5	LKS150	14	.43	
LKN175	5		5	LKS175	14		
LKN200	5		5	LKS200	14		
LKN225	11		5	LKS225	29		
LKN250	11		5	LKS250	29		
LKN300	11	.45	5	LKS300	29	.87	
LKN350	11		5	LKS350	29		
LKN400	11		5	LKS400	29		
LKN450	16		2	LKS450	37		
LKN500	16	.69	2	LKS500	37	1.25	
LKN600	16		2	LKS600	37		

Quantity discounts available. Contact Graybar.

BUSS GLASS TUBE FUSES

For Protection of Television, Instruments and Electronic Equipment



Formerly called 8AG. Dimensions 1/4 x 1-inch, glass tube. Provide high speed action necessary to protect

sensitive instruments.

Test specification—carry 100%, open at 200% in 5 seconds.

Voltage — 250 or Less			
Symbol and Amperes	Each	Symbol and Amperes	Each
AGX 1/500	\$1.03	AGX 1/100	\$0.38
AGX 1/200	.43	AGX 1/32	.34

Formerly called 8AG. Dimensions 1/4 x 1-inch, glass tube. Provide high speed action necessary to protect instruments.



Test Specification—carry 100%, open at 200% in 5 seconds. AGX are listed as approved by Underwriters' Laboratories, Inc.

250 Volts or Less		125 Volts or Less	
Symbol and Amperes	Each	Symbol and Amperes	Each
AGX 1/16	\$0.21	AGX 3/4	\$0.10
AGX 1/8	.15	AGX 1	.06
AGX 1/4	.10	AGX 1 1/2	.06
.....	.....	AGX 2	.06

1/4 x 1-INCH BUSS FUSES

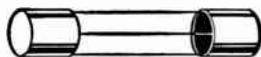


Formerly called 8AG. Glass tube. Test Specification—carry 110%, open at 135% in 1 hour. 125 volt sizes listed as approved by Underwriters' Laboratories, Inc.

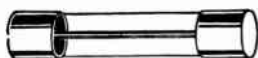
125 Volts or Less		32 Volts or Less	
Symbol and Amperes	Each	Symbol and Amperes	Each
AGX 3	\$0.06	AGX 20	\$0.04
AGX 5	.04	.....	.....

1/4 x 1 1/4-INCH BUSS GLASS TUBE FUSES

Formerly called 3AG. Provide high speed action necessary to protect sensitive instruments. Test Specifications—carry 110%, open at 135% in one hour or less.



AGC 1/16 to 2



AGC 3 & 4 & MTH 4, 5 and 6

Formerly called 3AG. Test Specification—carry 110%, open at 135% in one hour. Listed as approved by the Underwriters' Laboratories, Inc.

250 Volts or Less			
Symbol and Amperes	Each	Symbol and Amperes	Each
AGC 1/8	\$0.15	AGC 1 1/2	\$0.06
AGC 1/4	.10	AGC 2	.06
AGC 3/8	.10	AGC 3	.056
AGC 1/2	.10	MTH 4	.078
AGC 3/4	.10	MTH 5	.078
AGC 1	.06	MTH 6	.078

1/4 x 1 1/4-INCH BUSS GLASS TUBE FUSES



Formerly called 3AG. Test Specifications—carry 110%, open at 135% in 1 hour.

32 Volts or Less			
Symbol and Amperes	Each	Symbol and Amperes	Each
AGC 4	\$0.056	AGC 10	\$0.04
AGC 5	.04	AGC 15	.04
AGC 6	.04	AGC 20	.035
AGC 7 1/2	.04	AGC 25	.045
		AGC 30	.045

1/4 x 1 1/4-INCH FUSETRON FUSES



1/100 & 1/32 amp.



1/16 to 2 amp.



2 1/2 to 30 amp.

These fuses avoid needless blows from starting currents or surges. They have a fuse link which operates only on a very high overload or short circuit—they have a thermal cutout which functions on low overloads—the thermal cutout cannot operate quickly on any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

Test Specification—carry 110%, open at 135% in one hour.

Approximate blowing time: MDL Fuses — at 200% load, 25 seconds; at 300% load, 8 seconds; at 500% load, 3 seconds. MDX fuses—200% load, 12 seconds; at 300% load, 3 seconds; at 500% load, 1/2 second.

250 Volts or Less		125 Volts or Less		32 Volts or Less	
Symbol and Amperes	Each	Symbol and Amperes	Each	Symbol and Amperes	Each
MDL 1/100	\$0.29	MDL 1-6/10	\$0.20	MDL 3	\$0.15
MDL 1/32	.29	MDL 2	.20	MDL 3-2/10	.15
MDL 1/16	.21	MDL 2 1/2	.15	MDL 4	.15
MDL 1/10	.21	MDL 2-8/10	.15	MDL 5	.15
MDL 15/100	.21	MDX 3	.15	MDL 6 1/4	.15
MDL 2/10	.21	MDX 3-2/10	.15	MDL 8	.15
MDL 3/10	.21	MDX 4	.15	MDL 10	.15
MDL 4/10	.21	MDX 5	.15	MDL 15	.15
MDL 1/2	.21	MDX 6 1/4	.18	MDL 20	.15
MDL 6/10	.21	MDX 7	.18	MDL 25	.15
MDL 8/10	.21			MDL 30	.15
MDL 1	.21				
MDX 1 1/4	.23				
MDX 1 1/2	.23				
MDX 1-6/10	.23				
MDX 2	.23				

**FUSETRON PIG-TAIL FUSES
DUAL-ELEMENT — SLOW BLOWING TYPE**



Popularly used on television sets. Test specifications and performance, MDV 1/100 to 2-8/10 ampere same as MDL fuses. 3 to 7 ampere same as MDX fuses. 1/4 to 1 1/4-inch glass tube fuse with 1 1/4-inch leads of No. 20 tinned wire. U/L listed.

Symbol and Amperes	Each
250 Volts or Less	
MDV 1/100, 1/32	\$0.35
MDV 1/16, 1/10, 1/8, 15/100, 175/1000, 3/16, 2/10, 1/4, 3/10, 3/8, 1/2, 5/10, 3/4, 1	.26
125 Volts or Less	
MDV 1 1/4, 1 1/2, 1 3/4, 2	.25
MDV 3, 3 3/10, 4, 5, 6 1/4, 7	.21

BUSS PIG-TAIL FUSES

Test specifications — carry 110% open at 135% in hr. or less. 1/4 x 1 1/4-inch glass tube fuse with 1 1/4-inch leads. No 20 tinned wire. U/L listed. 250 volts or less.

Symbol and Amperes	Each
GJV 1/6	\$0.26
GJV 1/8	.20
GJV 1/4, 3/10, 3/8, 1/2, 3/4	.15
GJV 1, 1 1/2, 2, 3	.12
GJV 4, 5, 6	.13

Quantity discounts available. Contact Graybar

ECONOMY® RENEWABLE CARTRIDGE FUSES

U.L. Class H

National Electrical Code Standard

250 VOLTS — FERRULE TYPE



0-30 Amperes

Length, 2 inches; diameter, 1/8-inch

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN 1	1	10	5/8	\$0.54
ERN 2	2	10	5/8	.54
ERN 3	3	10	5/8	.54
ERN 4	4	10	5/8	.54
ERN 5	5	10	5/8	.54
ERN 6	6	10	5/8	.51
ERN10	10	10	5/8	.51
ERN15	15	10	5/8	.51
ERN20	20	10	5/8	.51
ERN25	25	10	5/8	.51
ERN30	30	10	5/8	.51

31-60 Amperes

Length, 3 inches; diameter, 1/8-inch

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN35	35	10	1 1/8	\$1.01
ERN40	40	10	1 1/8	1.01
ERN45	45	10	1 1/8	1.01
ERN50	50	10	1 1/8	1.01
ERN60	60	10	1 1/8	1.01

250 VOLTS — KNIFE-BLADE TYPE



61-100 Amperes

Length, 5 5/8 inches; width blade, 3/4-inch

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN 70	70	5	2	\$2.22
ERN 80	80	5	2	2.22
ERN 90	90	5	2	2.22
ERN100	100	5	2	2.22

101-200 Amperes

Length, 7 1/8 inches; width blade, 1 1/8 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN110	110	1	1 1/8	\$4.98
ERN125	125	1	1 1/8	4.98
ERN150	150	1	1 1/8	4.98
ERN175	175	1	1 1/8	4.98
ERN200	200	1	1 1/8	4.98

201-400 Amperes

Length 8 5/8 inches; width blade, 1 5/8 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN225	225	1	2 3/8	\$8.94
ERN250	250	1	2 3/8	8.94
ERN300	300	1	2 3/8	8.94
ERN350	350	1	2 3/8	8.94
ERN400	400	1	2 3/8	8.94

401-600 Amperes

Length, 10 3/4 inches; width blade, 2 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERN450	450	1	3 1/2	\$13.68
ERN500	500	1	3 1/2	13.68
ERN600	600	1	3 1/2	13.68

600 VOLTS — FERRULE TYPE



0-30 Amperes

Length, 5 inches; diameter 1/8-inch

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS 2	2	10	1 5/8	\$1.32
ERS 6	6	10	1 5/8	1.25
ERS10	10	10	1 5/8	1.25
ERS15	15	10	1 5/8	1.25
ERS20	20	10	1 5/8	1.25
ERS25	25	10	1 5/8	1.25
ERS30	30	10	1 5/8	1.25

31-60 Amperes

Length, 5 1/2 inches; diameter, 1 1/8 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS35	35	10	3 3/8	\$1.99
ERS40	40	10	3 3/8	1.99
ERS45	45	10	3 3/8	1.99
ERS50	50	10	3 3/8	1.99
ERS60	60	10	3 3/8	1.99

600 VOLTS — KNIFE-BLADE TYPE



61-100 Amperes

Length, 7 3/4 inches; width blade, 3/4-inch

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS 70	70	5	3 3/8	\$4.49
ERS 80	80	5	3 3/8	4.49
ERS 90	90	5	3 3/8	4.49
ERS100	100	5	3 3/8	4.49

101-200 Amperes

Length, 9 5/8 inches; width blade, 1 1/4 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS110	110	1	1 1/4	\$8.68
ERS125	125	1	1 1/4	8.68
ERS150	150	1	1 1/4	8.68
ERS175	175	1	1 1/4	8.68
ERS200	200	1	1 1/4	8.68

201-400 Amperes

Length, 11 3/8 inches; width blade, 1 5/8 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS225	225	1	3 1/2	\$17.38
ERS250	250	1	3 1/2	17.38
ERS300	300	1	3 1/2	17.38
ERS350	350	1	3 1/2	17.38
ERS400	400	1	3 1/2	17.38

401-600 Amperes

Length, 13 3/8 inches; width blade, 2 inches

Cat. No.	Cap. Amps.	Carton	Wt. Lbs. Carton	Each
ERS450	450	1	5 1/2	\$20.69
ERS500	500	1	5 1/2	20.69
ERS600	600	1	5 1/2	20.69

Quantity discounts available. Contact Graybar

ECON® DUAL-ELEMENT CARTRIDGE FUSES

100,000 Amps Interrupting Capacity
U.L. Class K-9

250 VOLTS — FERRULE TYPE



0-30 Amperes (2" x 1/8")

Cat. No.	Amps.	Carton	Wt. Lbs. Per 100	Each
ECN-1/10	1/10	10	3 1/2	\$0.36
ECN-15/100	15/100	10	3 1/2	.36
ECN-2/10	2/10	10	3 1/2	.36
ECN-3/10	3/10	10	3 1/2	.36
ECN-4/10	4/10	10	3 1/2	.36
ECN-1/2	1/2	10	3 1/2	.36
ECN-6/10	6/10	10	3 1/2	.36
ECN-8/10	8/10	10	3 1/2	.36
ECN-1	1	10	3 1/2	.36
ECN-1-1/8	1-1/8	10	3 1/2	.36
ECN-1 1/4	1 1/4	10	3 1/2	.36
ECN-1-4/10	1-4/10	10	3 1/2	.36
ECN-1-6/10	1-6/10	10	3 1/2	.36
ECN-1-8/10	1-8/10	10	3 1/2	.36
ECN-2	2	10	3 1/2	.36
ECN-2 1/4	2 1/4	10	3 1/2	.36
ECN-2 1/2	2 1/2	10	3 1/2	.36
ECN-2-8/10	2-8/10	10	5	.36
ECN-3-2/10	3-2/10	10	5	.36
ECN-3 1/4	3 1/4	10	5	.36
ECN-4	4	10	5	.36
ECN-4 1/4	4 1/4	10	5	.36
ECN-5	5	10	5	.36
ECN-5-6/10	5-6/10	10	5	.36
ECN-6 1/4	6 1/4	10	5	.36
ECN-7	7	10	5	.36
ECN-8	8	10	5	.36
ECN-9	9	10	5	.36
ECN-10	10	10	5	.36
ECN-12	12	10	5	.36
ECN-15	15	10	5	.36
ECN-17 1/2	17 1/2	10	5	.36
ECN-20	20	10	5	.36
ECN-25	25	10	5	.36
ECN-30	30	10	5	.36
31-60 Amperes (3" x 1/8")				
ECN-35	35	10	11	.69
ECN-40	40	10	11	.69
ECN-45	45	10	11	.69
ECN-50	50	10	11	.69
ECN-60	60	10	11	.69

250 VOLTS — KNIFE-BLADE TYPE



61-100 Amperes (5 7/8" x 3/4")

ECN-70	70	5	30	\$1.61
ECN-80	80	5	30	1.61
ECN-90	90	5	30	1.61
ECN-100	100	5	30	1.61
101-200 Amperes (7 1/8" x 1 1/8")				
ECN-110	110	1	80	3.49
ECN-125	125	1	80	3.49
ECN-150	150	1	80	3.49
ECN-175	175	1	80	3.49
ECN-200	200	1	80	3.49
201-400 Amperes (8 3/8" x 1 5/8")				
ECN-225	225	1	170	6.36
ECN-250	250	1	170	6.36
ECN-300	300	1	170	6.36
ECN-350	350	1	170	6.36
ECN-400	400	1	170	6.36
401-600 Amperes (10 3/8" x 2")				
ECN-450	450	1	290	9.66
ECN-500	500	1	290	9.66
ECN-600	600	1	290	9.66

600 VOLTS — FERRULE TYPE

0-30 Amperes (5" x 1/8")

Cat. No.	Amps.	Carton	Wt. Lbs. Per 100	Each
ECS-1/10	1/10	10	14	\$0.84
ECS-15/100	15/100	10	14	.84
ECS-2/10	2/10	10	14	.84
ECS-3/10	3/10	10	14	.84
ECS-4/10	4/10	10	14	.84
ECS-1/2	1/2	10	14	.84
ECS-6/10	6/10	10	14	.84
ECS-8/10	8/10	10	14	.84
ECS-1	1	10	14	.84
ECS-1-1/8	1-1/8	10	14	.84
ECS-1 1/4	1 1/4	10	14	.84
ECS-1-4/10	1-4/10	10	14	.84
ECS-1-6/10	1-6/10	10	14	.84
ECS-1-8/10	1-8/10	10	14	.84
ECS-2	2	10	14	.84
ECS-2 1/4	2 1/4	10	14	.84
ECS-2 1/2	2 1/2	10	14	.84
ECS-2-8/10	2-8/10	10	14	.84
ECS-3-2/10	3-2/10	10	14	.84
ECS-3 1/2	3 1/2	10	14	.84
ECS-4	4	10	14	.84
ECS-4 1/2	4 1/2	10	14	.84
ECS-5	5	10	14	.84
ECS-5-6/10	5-6/10	10	14	.84
ECS-6 1/4	6 1/4	10	14	.84
ECS-7	7	10	14	.84
ECS-8	8	10	15	.84
ECS-9	9	10	15	.84
ECS-10	10	10	15	.84
ECS-12	12	10	15	.84
ECS-15	15	10	15	.84
ECS-17 1/2	17 1/2	10	15	.84
ECS-20	20	10	15	.84
ECS-25	25	10	17	.84
ECS-30	30	10	17	.84

31-60 Amperes (5 1/2" x 1 1/8")

ECS-35	35	10	24	1.44
ECS-40	40	10	24	1.44
ECS-45	45	10	24	1.44
ECS-50	50	10	24	1.44
ECS-60	60	10	24	1.44

600 VOLTS — KNIFE-BLADE TYPE

61-100 Amperes (7 7/8" x 3/4")

ECS-70	70	5	48	\$3.09
ECS-80	80	5	48	3.09
ECS-90	90	5	48	3.09
ECS-100	100	5	48	3.09

101-200 Amperes (9 3/8" x 1 1/8")

ECS-110	110	1	122	6.09
ECS-125	125	1	122	6.09
ECS-150	150	1	122	6.09
ECS-175	175	1	122	6.09
ECS-200	200	1	122	6.09

201-400 Amperes (11 3/8" x 1 5/8")

ECS-225	225	1	315	12.20
ECS-250	250	1	315	12.20
ECS-300	300	1	315	12.20
ECS-350	350	1	315	12.20
ECS-400	400	1	315	12.20

401-600 Amperes (13 3/8" x 2")

ECS-450	450	1	500	17.52
ECS-500	500	1	500	17.52
ECS-600	600	1	500	17.52

Quantity discounts available. Contact Graybar

ECONOMY® RENEWAL LINKS

National Electric Code Standard

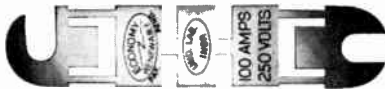
250 VOLTS — FERRULE TYPE

Cat. No. = Symbol plus Amperes



Symbol	Cap. Amps.	Carton	Wt. Oz. Carton	Each
ELN	5-5	100	3	\$0.061
ELN	6-30	100	3	.025
ELN	35-60	100	10	.051

250 VOLTS — KNIFE-BLADE TYPE



Symbol	Cap. Amps.	Carton	Wt. Oz. Carton	Each
ELN	70-100	50	14	\$0.112
ELN	100-200	25	16	.25
ELN	225-400	10	16	.45
ELN	450-600	10	20	.69

600 VOLTS — FERRULE TYPE



Symbol	Cap. Amps.	Carton	Wt. Oz. Carton	Each
ELS	3	100	11	\$0.14
ELS	6-30	100	11	.061
ELS	35-60	100	35	.10

600 VOLTS — KNIFE-BLADE TYPE



Symbol	Cap. Amps.	Carton	Wt. Oz. Carton	Each
ELS	70-100	50	24	\$0.22
ELS	110-200	25	44	.43
ELS	225-400	10	42	.87
ELS	450-600	10	70	1.25

ECON-LIMITER® CURRENT LIMITING TIME DELAY FUSES

U.L. Class K-5

200,000 Amps Interrupting Capacity

Amperes	250V. Symbol	600V. Symbol
1, 3, 6, 10, 15, 20, 25, 30	LEN	LES
35, 40, 45, 50, 60	2.30	2.79
70, 80, 90, 100	5.40	6.45
125, 150, 175, 200	10.68	13.05
225, 250, 300, 350, 400	20.10	22.85
450, 500, 600	25.65	29.55

ECONOLIM® CURRENT LIMITING AND HIGH INTERRUPTING CAPACITY FUSES

200,000 Amps Interrupting Capacity



Class J

Amp.	250 Volts		600 Volts	
	Cat. No.	Each	Cat. No.	Each

Class K-1 — NEC Dimension Fuses

30	NCL30	\$0.90	SCL30	\$1.17
60	NCL60	2.19	SCL60	2.63
100	NCL100	5.03	SCL100	6.13
200	NCL200	10.15	SCL200	12.33
400	NCL400	19.10	SCL400	21.73
600	NCL600	24.29	SCL600	28.09

Class J—NEMA Dimension Fuses—600 Volts or Less

30	JCL30	1.26
60	JCL60	2.05
100	JCL100	3.15
200	JCL200	5.88
400	JCL400	13.44
600	JCL600	18.90

Other intermediate ratings available.



Class L

Class L Fuses — 600 Volts or Less — Universal Drilling to 4000 Amps

Amp.	Cat. No.	Each	Amp.	Cat. No.	Each
800	LCL800	\$44.63	2500	LCL2500	\$107.63
1000	LCL1000	44.63	3000	LCL3000	128.63
1200	LCL1200	44.63	4000	LCL4000	171.20
1600	LCL1600	68.57	5000	LCL5000	214.00
2000	LCL2000	85.67	6000	LCL6000	257.00

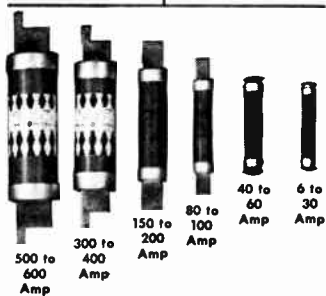
Midget Class — 13/32" x 1 1/2" 600 Volts or Less

Amps.	Cat. No.	Each	Amps.	Cat. No.	Each
1	MCL1	\$1.02	8	MCL8	\$1.02
1 1/2	MCL1.5	1.02	10	MCL10	1.02
2	MCL2	1.02	15	MCL15	1.02
3	MCL3	1.02	20	MCL20	1.02
4	MCL4	1.02	25	MCL25	1.02
5	MCL5	1.02	30	MCL30	1.02
6	MCL6	1.02			

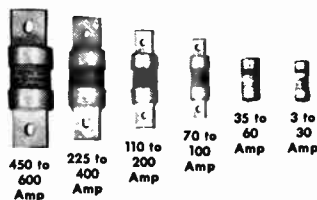
Quantity discounts available. Contact Graybar

GENERAL ELECTRIC CLF® CURRENT-LIMITING FUSES AND ACCESSORIES

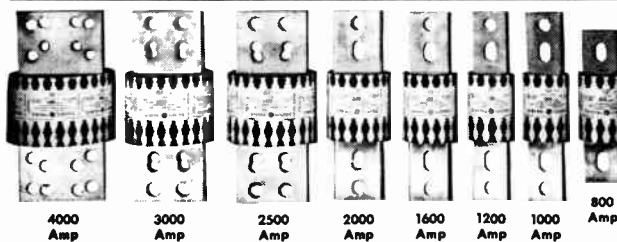
CLASS H



CLASS J



CLASS L



CLF fuses provide both short-circuit and overcurrent protection, and give safe and efficient protection against equipment damage on feeders, lighting-branch circuits, motor-branch circuits, motor starters, control power circuits, and similar applications. They have a tested and U.L. listed interrupting rating of 200,000 RMS symmetrical amperes at rated voltage and frequency. Class J and L fuses are U.L. listed for 200,000 amperes. The d-c interrupting rating is 100,000 amperes.

NEMA CLASS H

The Class H current-limiting fuse is designed for general power circuits and back-up protection for circuit breakers, motor starters, and other distribution equipment. It fits standard code fuse clips.

Current Amp Rating	250 Volts, A-c or D-c			600 Volts, A-c or D-c		
	Catalog No.	Net Price, Each*	Standard Package Quantity	Catalog No.	Net Price, Each*	Standard Package Quantity
6	GF6A6	\$0.85	6	GF6B6	\$1.30	6
15	GF6A15	.85	6	GF6B15	1.30	6
20	GF6A20	.85	6	GF6B20	1.30	6
30	GF6A30	.85	6	GF6B30	1.30	6
40	GF6A40	2.00	6	GF6B40	2.50	6
60	GF6A60	2.00	6	GF6B60	2.50	6
80	GF6A80	4.90	3	GF6B80	5.80	3
100	GF6A100	4.90	3	GF6B100	5.80	3
150	GF6A150	9.80	3	GF6B150	11.50	3
200	GF6A200	9.80	3	GF6B200	11.50	3
250 Volts, 60 Cycles, A-c						
300	GF7A300	\$18.20	1	GF7B300	\$21.30	1
400	GF7A400	18.20	1	GF7B400	21.30	1
500	GF7A500	25.50	1	GF7B500	30.00	1
600	GF7A600	25.50	1	GF7B600	30.00	1
600 Volts, 60 Cycles, A-c						
110	GF8B110		1	GF8B110		1
125	GF8B125		1	GF8B125		1
150	GF8B150	\$6.00	1	GF8B150		1
175	GF8B175		1	GF8B175		1
200	GF8B200		1	GF8B200		1
225	GF8B225		1	GF8B225		1
250	GF8B250		1	GF8B250		1
300	GF8B300	12.50	1	GF8B300		1
350	GF8B350		1	GF8B350		1
400	GF8B400		1	GF8B400		1
450	GF8B450		1	GF8B450		1
500	GF8B500	19.50	1	GF8B500		1
600	GF8B600		1	GF8B600		1

NEMA CLASS J

Class J fuses are used on applications similar to Class H types, and feature several refinements such as higher degree of current limitation, positive rejection of non-current-limiting types, 50 percent size reduction, and cooler operating temperatures.

Current Amp Rating	600 Volts A-c or Less			Current Amp Rating	600 Volts A-c or Less		
	Catalog Number	Net Price, Each*	Standard Package Quantity		Catalog Number	Net Price, Each*	Standard Package Quantity
3	GF8B3	\$1.30	6	110	GF8B110	\$6.00	1
6	GF8B6		6	125	GF8B125		1
10	GF8B10		6	150	GF8B150		1
15	GF8B15		6	175	GF8B175		1
20	GF8B20		6	200	GF8B200		1
25	GF8B25		6				
30	GF8B30		225	GF8B225		1	
35	GF8B35	2.00	6	250	GF8B250	12.50	1
40	GF8B40		6	300	GF8B300		1
45	GF8B45		6	350	GF8B350		1
50	GF8B50		6	400	GF8B400		1
60	GF8B60		6				
70	GF8B70			450	GF8B450			1
80	GF8B80	3.15	3	500	GF8B500	19.50	1
90	GF8B90		3	600	GF8B600		1
100	GF8B100		3				
			3				

* Suggested user Net Price.

NEMA CLASS L

Class L fuses are used on higher current circuits in devices such as fused power circuit breakers, service entrance protectors, bolted contact switches, fusible panelboards and switchboards.

Current Amp Rating	600 Volts A-c or Less			Current Amp Rating	600 Volts A-c or Less		
	Catalog Number	Net Price, Each*	Standard Package Quantity		Catalog Number	Net Price, Each*	Standard Package Quantity
800	GF8B800	\$45.00	1	2000	GF8B2000	\$85.00	1
1000	GF8B1000	45.00	1	2500	GF8B2500	105.00	1
1200	GF8B1200	45.00	1	3000	GF8B3000	130.00	1
1600	GF8B1600	68.00	1	4000	GF8B4000	180.00	1

SPECIAL APPLICATIONS

Welding Fuses have a 200,000-ampere RMS symmetrical interrupting rating. They are similar in construction to comparable ratings of Class L fuses except without an overload solder bead.

Amperes	Catalog No.	Net Price, Each*	Standard Package Quantity
600 VOLTS OR LESS			
800	GF30W8	\$45.00	1
1200	GF30W12	45.00	1
1600	GF30W16	68.00	1
2000	GF30W20	85.00	1

Capacitor Fuses are current-limiting fuses used for capacitor isolation, featuring specially designed tangs for direct mounting on the capacitor. A red indicator button shows blown fuse. Current-limiting fuses for special-purpose capacitor applications are also available.

Rating	Catalog No.	Net Price, Each*	Standard Package Quantity
60 Amp, 600 Volts	GF30H1	\$3.75	12
100 Amp, 600 Volts	GF30H2	4.70	12
60 Amp, 600 Volts	GF30H3	3.75	12
100 Amp, 600 Volts	GF30H4	4.70	12
120 Amp, 750 Volts	GF30H5A	8.70	12

ACCESSORIES

Class J Fuse Mounts permit a much wider use of the Class J fuse, and offer many outstanding features. Of extremely sturdy construction, with lugs which will accept standard size cables, the fuse mount is easy to install and has high insulation characteristics.

Amp	Poles	Cat. No. 108C9633 Gr. No.	Net Price, Each*	Amp	Poles	Cat. No. 108C9633 Gr. No.	Net Price, Each*
30	1	1	\$2.35	200	1	8	\$6.85
	2	3	4.75		2	12	13.65
	3	5	7.10		3	16	20.50
60	1	2	3.15	400	1	9	10.50
	2	4	6.30		2	13	21.00
	3	6	9.45		3	17	31.50
100	1	7	3.70	600	1	10	20.00
	2	11	7.25		2	14	40.00
	3	15	11.00		3	18	60.00

Class J Pullout Block bolts directly to the panel. When pulled, the cover containing the fuses provides a safe disconnect and gives a quick, easy replacement of fuses.

Current Amp	No. of Poles	Catalog Number	Net Price, Each*
600 VOLTS OR LESS			
30	2	0116B4078	\$5.25
30	3	0116B4075	7.90

MULTI-UNION ENCLOSED FUSE CUTOUT BASES

Solderless Lugs on 60 and 100 Amp. Sizes

Listed as Standard by Underwriters' Laboratories, Inc.

*N.E. Code Standard

PORCELAIN BASE — 250 VOLTS

1-30 Amperes

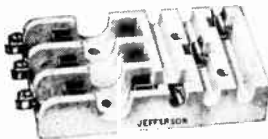


Main Line
No. 2501 — Single Pole

Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line							
2501	388-401	1-30	3 1/4	1 1/2	5	21	\$0.55
Double Pole Main Line							
2502	388-402	1-30	3 1/4	2 1/4	5	37 1/2	.88
Triple Pole Main Line							
2503	388-403	1-30	3 1/4	4	5	52 1/2	1.26
Two Wire, Double Pole, Single Branch							
2504	388-404	1-30	4 1/8	2 1/4	1	12 1/2	1.30
Three Wire, Triple Pole, Single Branch							
2505	388-405	1-30	6 1/4	4	1	27	2.29
Two Wire, Double Pole, Double Branch							
2506	388-406	1-30	7 3/8	2 3/4	1	17 1/2	2.47
Three Wire, Triple Pole, Double Branch							
2507	388-408	1-30	8 3/8	4	1	30	3.66
Three Wire, Double Pole, Double Branch							
2508	388-407	1-30	9	2 3/4	1	26	3.66

PORCELAIN BASE — 250 VOLTS

31-60 Amperes



Single Branch
No. 2515 — 3 Wire — Triple Pole

Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line							
2511	388-409	31-60	4 1/8	1 3/4	2	16 1/4	\$1.25
Double Pole Main Line							
2512	388-410	31-60	4 1/8	3 1/4	1	15	2.41
Triple Pole Main Line							
2513	388-411	31-60	4 1/8	4 3/4	1	20	3.23
Two Wire, Double Pole, Single Branch							
2514	388-412	31-60	7 1/8	3 3/8	1	30	3.29
Three Wire, Triple Pole, Single Branch							
2515	388-413	31-60	8 3/8	4 1/8	1	45	5.69
Two Wire, Double Pole, Double Branch							
2516	388-414	31-60	11 1/8	3 3/8	1	42	5.53
Three Wire, Triple Pole, Double Branch							
2517	388-416	31-60	11 1/2	4 1/4	1	60	7.43
Three Wire, Double Pole, Double Branch							
2518	388-415	31-60	12 1/4	3 3/8	1	50	6.52

*The National Electrical Code does not cover any type of 250-volt or 600-volt enclosed fuse above 600 amperes.

If specified, cutout fuses can be furnished for single pole fusing.

PORCELAIN BASE — 250 VOLTS

61-100 Amperes



Main Line
No. 2525 — Single Pole

Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line							
2524*		61-100	7 3/8	2	5	95	\$2.39
2525	388-417	61-100	7 3/8	2	5	90	1.92
Double Pole Main Line							
2526	388-418	61-100	7 3/8	3 3/8	1	35	4.39
Triple Pole Main Line							
2527	388-419	61-100	7 3/8	5 1/4	1	47 1/2	5.70

*With barriers.

EBONY ASBESTOS BASE — 250 VOLTS

61-600 Amperes



Single Pole — Main Line
No. 2204

Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line							
†2202R	388-420	61-100	8	2	1	20	\$2.77
†2203R	388-421	101-200	9 3/4	2 1/4	1	32	4.80
†2204R	388-422	201-400	11 1/4	3	1	60	11.52
2205	388-423	401-600	14	3 1/2	1	90	14.81

PORCELAIN BASE — 600 VOLTS

1-60 Amperes



Single Pole — Main Line
No. 2521

Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line — Less Lugs							
2520	388-424	1-30	6 1/4	1 3/4	2	20	\$0.89
Single Pole Main Line — With Lugs							
2521	388-425	31-60	7 3/8	2	2	30	1.49

EBONY ASBESTOS BASE — 600 VOLTS

61-600 Amperes



Main Line
No. 2552 — Single Pole

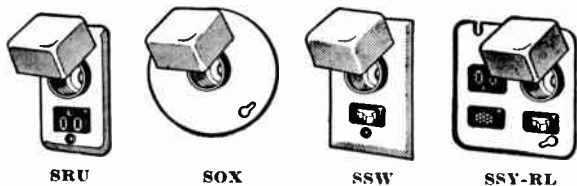
Cat. No.	Union	Ampere Capacity	Lgth. Base	Wd. Base	Car-10 Full	Wt. Lbs. Cartons	Each
Single Pole Main Line							
†2552R	388-426	61-100	10 1/4	2	1	12 1/2	\$2.93
†2553R	388-427	101-200	12 1/4	2 1/8	1	35	4.97
2554	388-428	201-400	14 3/8	3 3/8	1	80	13.13
2555	388-429	401-600	17	4	1	120	16.13

*The National Electrical Code does not cover any type of 250-volt or 600-volt enclosed fuse above 600 amperes.

If specified, cutout fuses can be furnished for single pole fusing.

†Approved Molded Composition Base.

BUSS FUSTAT BOX-COVER UNITS



Many Combinations to choose from—mounted on any one of Four Covers to fit Boxes in use.

A simple, low cost way to protect 125 volt motors. A box-cover on which a Fustat fuse can be mounted—alone or in combination with a plug-in receptacle or switch.

There are four different sizes to fit the box you have. Units have Edison base fuseholder so proper size Fustat Adapter can be used. They are listed as approved by Underwriters' Laboratories when Adapter has been inserted.

On normal installations, use Fustat fuse of motor-running protection size. Mount it anywhere in the circuit to handle only the motor current.

These Box-Cover Units make it as easy to install motor protection as it is a wall switch. Use them to guard against burnout of motors on Home, Farm, Office, Factory Appliances and Equipment—from such things as: lack of oil, worn bearings, tight bolts, overloading or wrong or low voltage.

Units without switch for any motor ¼ h.p. or smaller. Units with switch for AC motors only—½ h.p. or smaller.

Symbol	Description	Each
Holder for Fustat Fuse Only		
SOU	on 2½ inch cover for Handy box..	\$0.55
SOW	on 2¾ inch cover for Switch box..	.55
SOX	on 4 inch cover for Octagon box	.66
SOY	on 4 inch cover for Square box..	.66
Holder for Fustat Fuse with Grounding Type Plug-in Receptacle		
SRU	on 2¼ inch cover for Handy box..	.96
SRW	on 2¾ inch cover for Switch Box..	.96
SRX	on 4 inch cover for Octagon box	1.03
SRY	on 4 inch cover for Square box..	1.03
Holder for Fustat Fuse with S.P. Switch		
SSU	on 2¼ inch cover for Handy box..	.96
SSW	on 2¾ inch cover for Switch box..	.96
SSX	on 4 inch cover for Octagon box	1.03
SSY	on 4 inch cover for Square box..	1.03
Holder for Fustat Fuse with S.P. Switch and Pilot Light		
SSY-L	on 4 inch cover for Square box.....	1.87
Holder for Fustat Fuse with S.P. Switch, Pilot Light and Grounding Type Plug-in Receptacle		
SSY-RL	on 4 inch cover for Square box.....	2.71
Two Holders for Fustat Fuses and Two S.P. Switches		
SCY	on 4 inch cover for Square box.....	1.79
Holders for Two Fustat Fuses with one Tandem Blade Grounding Type Receptacle		
SKA	on 4½ inch cover for Square box..	1.92
Two Holders for Fustat Fuses with One Double Pole Switch		
STY	on 4 inch cover for Square box.....	2.00
Two Holders for Fustat Fuses Only		
SOY-B	on 4 inch cover for Square box.....	1.03

(Grounding type Receptacles take either ordinary 2 prong attachment plug cap — or the 2 prong parallel polarized plug cap with one wide prong — or 3 prong grounding type attachment plug cap.) Grounding type Receptacles meet N.E. Code requirements.

Fustat Fuses and Adapters are not included with Box-Cover Units, order them separately.

BUSS FUSE REDUCERS



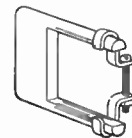
Make it possible to use Fusetron or ordinary fuses of a size smaller than the fuse clips are intended to hold.

Fit in any panel or switch as reducers take up no more space than would a fuse of a size to fit clips.

Poor contact troubles are entirely eliminated because these reducers provide clamp contact throughout.

Reducers fit any form of clip, either the spring type or clamp type.

Packed—one pair in a carton.



Volts	Amp. Rating	No.	per pair
250 Volt	60 to 30	263	\$0.59
250 Volt	100 to 30	213	1.09
250 Volt	100 to 60	216	.79
250 Volt	200 to 60	226	2.41
600 Volt	60 to 30	663	.67
600 Volt	100 to 30	Use No. 216	
600 Volt	100 to 60	616	1.43
600 Volt	200 to 60	626	4.00
250 or 600 V.	200 to 100	2621	1.61
250 or 600 V.	400 to 100	2641	5.01
250 or 600 V.	400 to 200	2642	6.26
250 or 600 V.	600 to 100	2661	6.67
250 or 600 V.	600 to 200	2662	7.52
250 or 600 V.	600 to 400	2664	8.34

TRON CLIP-CLAMPS

Insure Good Contact Between Clips and Fusetron or Ordinary Fuses



Prevent needless blowing of fuses by eliminating heating from poor contact that often causes fuses to blow.

Reduce needless destruction of fuse-cases by preventing poor contact from burning up the fibre tube and destroying the fuse.

Makes replacement of fuse-clips unnecessary. Generally permits even injured clips to be used with perfect satisfaction.

Built for hard service and to prevent corrosion, all steel parts are heavily cadmium plated.



Cat. No.	Size of Clamp	Carton Qty.	Wt. Lbs. Per 100	Each
1	0- 30 amp. 250 volt	12	5	\$0.72
2	{ 31- 60 amp. 250 volt } { 0- 30 amp. 600 volt }	12	8	.93
4	31- 60 amp. 600 volt	12	12	1.14
5	61-100 amp. 250or600V.	12	10	1.08
6	101-200 amp. 250or600V.	6	21	1.57
7	201-400 amp. 250or600V.	6	31	2.25
8	401-600 amp. 250or600V.	6	42	2.86

Quantity discounts available. Contact Graybar.

BELL WIRING DEVICES

MOTOR-GARD FUSE HOLDER COVERS

For Use With Underwriters Listed Type S Fuses



650



651



663



665

Fuse Outlet and Grounding-Type Single Receptacle: For motor-driven devices with attachment cord and plug. Motor to be 3/4 h.p. or smaller — 125V. or less.

Cat. No.	Cover For	Std. Pkg.	Wt. Lbs.	Per 100
650	Handy Box	20	8	\$105.50
651	Switch Box	20	8 1/4	105.50
652	4" Octagon Box	20	11 1/4	111.00
653	4" Square Box	20	12 1/2	111.00

Fuse Outlet and Single-Pole Switch: For motor-driven devices permanently wired into the circuit and where switch control is desired. Motors to be AC only, 1/2 h.p. or smaller — 125V. or less.

654	Handy Box	20	7 1/2	\$105.50
655	Switch Box	20	7 3/4	105.50
656	4" Octagon Box	20	11 1/4	111.00
657	4" Square Box	20	12 1/2	111.00

Fuse Outlet Only: For motor-driven devices permanently wired into the circuit — where no switch or receptacle is desired. Motor to be 3/4 h.p. or smaller — 125V. or less.

658	Handy Box	20	6 3/4	\$60.00
659	Switch Box	20	6 3/4	60.00
660	4" Octagon Box	20	10 1/2	72.00
661	4" Square Box	20	11 3/4	72.00

Two Fuse Outlets Only: For two separate motor-driven devices or for two motors in one device as in an oil burner. Motors to be 3/4 h.p. or smaller — 125V. or less.

662	4" Square Box	20	14 1/2	\$111.00
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Fuse Outlet, Single Pole Switch, Pilot Light, Grounding-Type Receptacle: For motor-driven devices with attachment cord and plug. Motors to be 1/2 h.p. or smaller — 125V. or less.

663	4" Square Box	20	14 1/4	\$302.50
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Fuse Outlet, Single Pole Switch, Pilot Light: For remote-controlled motor-driven devices permanently wired into the circuit, Pilot light indicates if motor is running. Motor to be AC only, 1/2 h.p. or smaller — 125V. or less.

664	4" Square Box	20	13 1/4	\$202.50
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Two Fuse Outlets, Two Single-Pole Switches: For separate control of two motor-driven devices or of two motors in one device. Motors to be AC only, 1/2 h.p. or smaller — 125V. or less.

665	4" Square Box	20	16	\$193.50
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THOMAS INDUSTRIES

Incandescent Dimming Devices

Thomas Industries dimmers put mood lighting at your fingertips. A turn of the dial creates dozens of dramatic lighting effects from full brightness to candlelight for intimate dining. Dimmers can add that extra touch of fashion to any area in the home. Turn hall lights into night lights. Dramatize recessed lighting. You always have complete control for maximum comfort.

M-6504 Compact 600-watt dimmer. Continuous dimming from full brightness to less than 1%. Same compact size as M-6502, tap switch, 120-volt, 60-cycle. Face plate not included. **6.18**



M-6502 Compact 500-watt dimmer. Continuous dimming from full brightness to less than 1%. Small size simplifies installation in crowded switch boxes. 3-year warranty. Listed by U. L. Built-in "on-off" switch. 120-volt, 60-cycle. Face plate not included. **3.70**

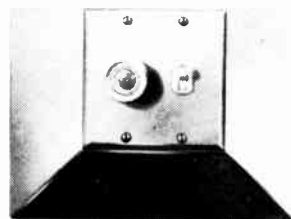


M-6503 Same dimmer as M-6502, except with 3-way tap switch. Permits switching on or off up to two or three locations. **10.59**



M-6506 800-watt incandescent dimmer. Continuous dimming from full brightness to less than 1%. Mounts in standard two-gang switch box. Face plate with anodized brass finish. Separate on/off 3-way switch. Listed by U. L. 3-year warranty. 120-volt, 60-cycle. **19.92**

M-6509 1800-watt incandescent dimmer. Full range control—full brightness to less than 1%. Mounts in standard two-gang switch box. 9 1/2" square face plate in anodized brass finish. Can be painted to match decor. Separate on/off switch. Listed by U. L. 3-year warranty. 120-volt, 60-cycle. **50.00**



Fluorescent Dimming Devices

A completely new standard of performance in fluorescent dimming systems, made possible by development in silicon controlled rectifiers from the Thomas Industries laboratories. Gives smooth control without flicker through the full lighting range from 100% to less than 1%. Proven in thousands of successful applications.



M-6511 Wall Control and Master Dimming Strip. Wall control mounts in standard switch box, has separate on/off switch. This switch controls the master fluorescent strip included in this part number, plus 1 to 19 additional dimming strips. 40W. Rapid start. Length 48". **35.61**

LEVITON DIMMER CONTROLS

600 Watt, 120 Volt AC Incandescent Only

Dimming range: 0 to 100%. Push-on control. Dial controls level of light. Easy-to-wire terminal screws. Ivory knob. Replaces any ordinary single-pole switch. Specification grade construction. Printed circuits, radio/TV filter, proven components carefully chosen to resist vibration, shock and temperature change. Backed by full-year factory warranty.

DELUXE FULL-RANGE DIMMER

U. L. Listed



Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
6670 D	S.P.*	1/5	3	\$1235.00	\$973.00
6670 D BP	S.P.**	1/5	2	1235.00	973.00
6673 D	3-Way*	1/5	3	1496.25	1296.00

STANDARD FULL-RANGE DIMMER

U. L. Listed



Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
6681	S.P.†	1/5	3	\$973.50	\$843.00
6681 BP	S.P.**	1/5	2	973.50	843.00
6683	3-Way†	1/5	3	1196.25	1036.00

LOW-COST FULL-RANGE DIMMER



Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
6600	S.P.†	1/5	5	\$748.50	\$648.70
6600 BP	S.P.**	1/5	2	748.50	648.70

LOW-COST DIAL-SET DIMMER

U. L. Listed



Provides completely variable DIM control (from 0 to 60V) — or immediate switching from OFF to HI (120V) or to any pre-set DIM position. Easy-to-wire terminal screws. Everything color-matched in ivory. Replaces any ordinary single-pole switch. Complete with metal wall plate, knob, screws and instruction sheet. Specification grade construction. Radio/TV filter. Proven components carefully chosen to resist vibration, shock and temperature change. Full-year factory warranty.

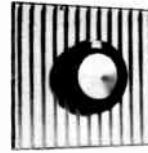
Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
671	Dial-Set Rotary Dimmer	1/5	3	\$825.00	\$715.00

*Display Box.
**Blister Pak.
†Std. Box.

FULL-RANGE ROTARY DIMMER

U. L. Listed

1000 Watt, 120 Volt AC Incandescent Only



Dimming range 0 to 100%. Positive Off/On action — just twist dial for ON and dial to any light level from OFF to FULL BRITE. Brushed-brass wall plate with vertical ribs and black molded knob with gold insert. Fits any standard two-gang gem box.

Complete with wall plate, knob and screws. Specification grade construction. Printed circuits, radio/TV filter and proven components carefully chosen to resist vibration, shock and temperature change. Full-year factory warranty.

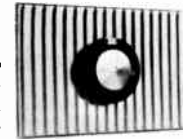
Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
61000	Full-Range Rotary Dimmer	1/5	5	\$2996.25	\$2596.75

FULL-RANGE ROTARY DIMMER

U. L. Listed

1500 Watt, 120 Volt AC Incandescent Only

Dimming range: 0 to 100%. Positive Off/On action — just twist dial for ON and dial to any light level from OFF to FULL BRITE. 3-gang brushed-brass wall plate with vertical ribs and black molded knob with gold insert. Fits any two-gang gem box.



Complete with wall plate, knob and screws. Specification grade construction. Printed circuits, radio/TV filter and proven components carefully chosen to resist vibration, shock and temperature change. Full-year factory warranty.

Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
61500	Full-Range Rotary Dimmer	1/5	6	\$6000.00	\$5200.00

2-STAGE DIMMER CONTROL — VERTICAL TOGGLE

U. L. Listed

300 Watt, 120 Volt AC Incandescent Only

Dimming range: 100% FULL BRITE or 30% DIM settings. Replaces any ordinary single-pole incandescent switch. Easy-to-wire terminal screws. Specification grade construction — 2-piece, heavy-sectioned phenolic housing, special silver-alloy contacts, rust-proof straps and captive mounting screws. Full-year factory warranty. 400 watt rating also available.



Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
653-I	300W Rating	1/5	3	\$165.00	\$143.00
657-I	400W Rating	1/5	3	412.50	357.50

2-STAGE DIMMER — HORIZONTAL TOGGLE WITH WALL PLATE

U. L. Listed

300 Watt, 120 Volt AC Incandescent Only

Dimming range: 100% FULL BRITE or 30% DIM settings. Side-to-side action insures immediate identification as a dimmer. Switch and wall plate in one self-contained unit — seals and protects against dirt. Replaces any ordinary single-pole incandescent switch. Easy-to-wire terminal screws. Complete with wall plate and switch and screws.



Specification grade construction. Heavy-sectioned phenolic housing integral with wall plate. Special silver alloy contacts. Full-year factory warranty.

Cat. No.	Description	Std. Ctn./Pkg.	Wt. Lbs.	Per 100	
				Std. Ctn.	Std. Pkg.
655-I	300W Rating	1/5	4	\$165.00	\$143.00

HUNT ELECTRONIC DIMMERS

Model PC-6-IB — Incandescent — U.L. Listed



Replaces any two-way switch. Controls from one to any number of incandescent lamps whose combined ratings do not exceed 600 watts. Fits standard 2" single gang box. Tap on tap off control at any intensity setting. Full range dimming in control knob.

600 watt, 60 cycle, A.C., 5 amps. 120 volt.

Model PC-6-IB...Each **\$9.30**

Model PC-6-1B/3P — Incandescent — U.L. Listed

Incandescent dimming control for 3-way switches. Simply replaces one of the standard switches, in a 2" deep, single gang switch box. 600 watt capacity. Taps on and off at any light intensity setting, and uses any standard single gang face plate. 120 volt, 60 cycle, A.C., 5 amps.

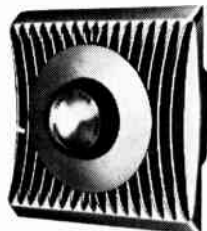
Model PC-6-1B/3Peach **\$11.30**

Model PC-10-IB — U.L. Listed

Controls incandescent lamps whose combined ratings do not exceed 1000 watts. Positive on/off action and full range dimming in control knob. Unit furnished with decorative metal face plate. Fit 2" deep double gang box.

1000 watt, 60 cycle, A.C., 8.33 amps. 120 volt.

Model PC-10-IB each **\$30.00**

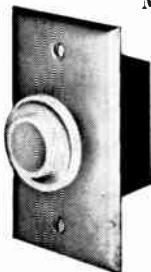


Model PC-10-FB — Fluorescent

Fluorescent dimming control with 100 watt capacity. Fits any standard 2" deep, double gang switch box. Operates from 2 to 20 forty-watt rapid start lamps. Conventional 4-wire installation. Positive On-Off and full dimming range. 120 volt, 60 cycle, A.C., 8.33 amps.

Model PC-10-FBeach **\$43.33**

Model F-5 — Fluorescent



Full and even dimming control on up to ten rapid start lamps. Works with wider range of dimming ballasts. Dimming ratio is adjustable. Surge and transient protected. Over/under voltage compensated. Fully guaranteed.

120 volt, 60 cycle, 5 amps.

Model F-5each **\$26.63**

Model LC15-I Light Control

Photocell actuated light control for outdoor application. 75 to 1500 watts incandescent load. Reduced voltage is applied to load at turn-on, gradually increasing to full voltage, prolonging lamp life and decreasing filament fatigue. Weather sealed, corrosion-proof. No moving parts or contacts. Threaded for 1/2" conduit or 1/2" EMT with connector.

Model LC15-Ieach **\$13.27**

Model LCT15-I Light Control

Similar to LC15-I except with adjustable timer control.

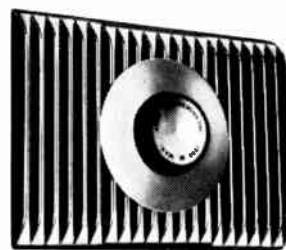
Model LCT15-Ieach **\$26.60**

Model PC-15-I — Incandescent — U.L. Listed

Controls up to 1500 watts in combined ratings of incandescent lamps. Positive on/off action and full range dimming in control knob.

1500 watt, 60 cycle, A.C., 15 amps. 120 volt.

Model PC-15-I each **\$53.33**



Model PC-20-IR — Incandescent



Controls up to 2000 watts of combined ratings of incandescent lamps. Positive on/off remote control station fits 2" deep single gang box. Full range dimming.

2000 watts, 60 cycle, A.C., 16.6 amps. 120 volts.

Model PC-20-IR...each **\$88.00**

Model PC-30-IR — Incandescent

Controls up to 3000 watts of combined ratings of incandescent lamps. Positive on/off remote control station fits 2" deep single gang box. Full range dimming. The PC-30-IR case has the same appearance as the PC-20-IR except the PC-30-IR is 1/2" longer in height.

3000 watts, 60 cycles, A.C., 25 amps. 120 volt.

Model PC-30-IReach **\$113.33**

Model PC-20-FR — Fluorescent

Fluorescent dimming control with 2000 watt capacity. Control fits any standard 2" deep, single gang switch box. Burnished brass face plate included. Dimmer remote mounted. Operates from 2 to 40 forty-watt rapid start lamps. No jumps, flickers or striations. 120 volt, 60 cycle, A.C., 16.6 amps.

Model PC-20-FReach **\$113.33**

Model PC-30-FR — Fluorescent

Similar to PC-20-FR except with 3000 watt capacity (up to 60 forty-watt lamps) also available.

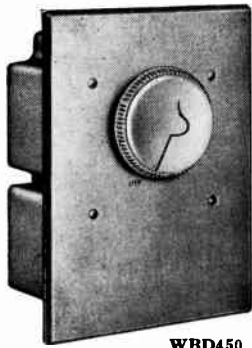
Model PC-30-FReach **\$140.00**

INCANDESCENT REMOTE MOTORIZED SYSTEMS

Cat. No.	Maximum Rating	Description	Each
MDS 50I/2-1	2 KW	1 MC 50 Motorized Unit	\$186.00
		1 PC 20-IR Dimmer	
MDS 50I/3-1	3 KW	1 MC 50 Motorized Unit	211.33
		1 PC 30-IR Dimmer	
MDS 50I/4-2	4 KW	1 MC 50 Motorized Unit	265.33
		2 PC 20-IR Dimmers	
MDS 50I/5-2	5 KW	1 MC 50 Motorized Unit	290.67
		1 PC 20-IR Dimmer	
MDS 50I/6-2	6 KW	1 MC 50 Motorized Unit	316.00
		2 PC 30-IR Dimmers	
MDS 100I/7-3	7 KW	1 MC 100 Motorized Unit	396.67
		2 PC 20-IR Dimmers	
MDS 100I/8-3	8 KW	1 MC 100 Motorized Unit	422.00
		2 PC 30-IR Dimmers	
MDS 100I/9-3	9 KW	1 MC 100 Motorized Unit	447.33
		3 PC 30-IR Dimmers	
MDS 100I/10-4	10 KW	1 MC 100 Motorized Unit	501.33
		2 PC 20-IR Dimmers	
MDS 100I/11-4	11 KW	1 MC 100 Motorized Unit	526.67
		3 PC 30-IR Dimmers	
MDS 100I/12-4	12 KW	1 MC 100 Motorized Unit	552.00
		4 PC 30-IR Dimmers	

Control stations RS 1A **\$13.27** or RS 2 **\$20.00** MUST be ordered as separate item.

SUPERIOR ELECTRIC LUXTROL® LIGHT CONTROL EQUIPMENT
MOUNTING-IN-WALL TYPES



WBD450

LUXTROL Light Controls are designed to replace an ordinary "on-off" wall switch in any standard 4" wall in either new or existing buildings. They are continuously adjustable transformers (not rheostats). Rotating the knob produces any lighting intensity from full bright to off or any level between. Smooth, flickerless, stepless control of either incandescent or 40-watt rapid-start fluorescent lamps.

Except for fluorescent lighting, no external switch is required. A built-in input switch disconnects the unit and load when the knob is in the "off" position. An automatically resetting current protector and a temperature protector link assure complete safety of operation. Knob and wallplate are smartly styled to blend with any room decor. LUXTROL Bulletin L463W available on request.

Underwriters' Laboratories Approved. Operation cool, safe and economical. Only current required to produce desired illumination is used.

Input: 120 Volts, 60 Cycles A.C.

Type*	Watts	—Wallbox Dimens. In.—			Plate Size	Each
		H.	W.	D.	Inches	
WBD200	200	4 1/8	3 1/8	2 1/8	5 x 5	\$12.80
WBD450	450	7 3/8	5	3 1/8	8 3/4 x 6 1/2	22.40
WBD800	800	8 1/2	6	3 3/4	10 x 7 1/2	36.80
WBD1800	1800	11	8 1/4	4	12 1/2 x 9 3/4	58.80

*Less knob but with prime painted wallplate.

WALLPLATES

For Type	—Brushed Brass—		—Stainless Steel—	
	Type	Each	Type	Each
WBD200	P2B	\$1.60	P2SS	\$2.40
WBD450	P4B	2.80	P4SS	4.00
WBD800	P8B	4.00	P8SS	5.60
WBD1800	.....	.....	P18SS	8.00

Knobs for all Types

Type KI—Ivory	.....	each	\$0.80
Type KB—Black	.....	each	.80
Type KG—Gray	.....	each	.80

D1000R, D2000 AND D5000-B SERIES



D2000



MD5000-B

Manually operated units are offered in capacities from 1,000 to 30,000 watts and in motor-driven types from 2,000 to 45,000 watts. The D1000R Series is available for manual operation only. The D2000 and D5000-B Series are available in manual or motor-driven units and in ganged assemblies consisting of two or more units operating in unison on a common shaft. Motor-driven types offer effortless,

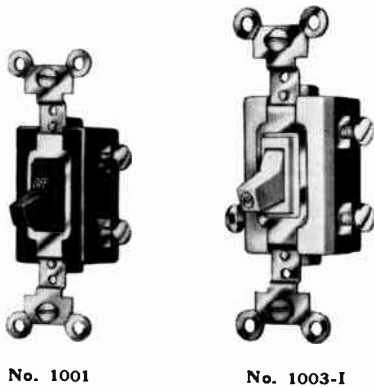
"finger-tip" control by means of momentary contact switches of either the lever-action or pushbutton type or by positioner control. Motor-driven types permit remote control with the dimmer installed in out-of-the-way space and the control station placed at the location most convenient for control. All types are for 50/60 cycle operation.

Individual units in a ganged assembly are usually electrically independent for control of separate lighting loads. The ratings given in the charts for these "E" connected assemblies are for operation with units in the assembly equally divided between phases. Ganged assemblies of the D5000-B Series having individual unit outputs connected in parallel ("P" types) are also available for use where capacities greater than 5000 watts per load circuit are required. All except parallel connected ganged assemblies are UL listed; all are CSA listed if parallel connected assemblies are enclosed. Full information in Bulletin L1064.

Input Watts	No. Circuits	Watts Per Circuit	Total Watts Output	Type	Approx. Dimens.			Approx. Weight Lbs.			Standard Motor Speeds (Seconds)	Manual Each	
					H.	Inches W.	D.	Manual	Net Motor	Shipping Manual			Motor
2-Wire, 1 Phase, 50/60 Cycle Service													
120	1	1000	1000	D1000R	5 3/4	5 1/2	5	9	10	.....	.....	\$ 31.50	
120	1	2000	2000	D2000	8 3/4	9 1/4	10 3/8	22	34	29	42	5, 15, 30, 60	61.20
120	2	2000	4000	D2000-2E	15	9 1/4	10 3/8	45	60	52	67	5, 15, 30, 60	126.90
120	3	2000	6000	D2000-3E	21 1/4	9 1/4	10 3/8	68	90	87	109	5, 15, 30, 60	194.40
120	1	5000	5000	D5000-B	9 1/4	15 7/8	18	76	90	86	105	5, 15, 30, 60	136.80
120	2	5000	10000	D5000-2E-B	15 3/4	15 7/8	18	170	185	190	210	5, 15, 30, 60	298.80
120	1	10000	10000	D5000-2P-B	15 3/4	16 3/8	16 3/8	175	190	200	220	5, 15, 30, 60	308.70
120	3	5000	15000	D5000-3E-B	22 3/8	15 7/8	18	215	230	285	305	5, 15, 30, 60	450.00
120	1	15000	15000	D5000-3P-B	22 3/8	16 3/8	16 3/8	230	245	310	330	5, 15, 30, 60	479.70
3-Wire, 1 Phase, 50/60 Cycle Service													
240/120	2	2000	4000	D2000-2E	15	9 1/4	10 3/8	45	60	52	67	5, 15, 30, 60	126.90
240/120	4	2000	8000	D2000-4E	27 3/8	9 1/4	10 3/8	91	121	112	142	5, 15, 30, 60	315.00
240/120	2	5000	10000	D5000-2E-B	15 3/4	15 7/8	18	170	185	190	210	5, 15, 30, 60	298.80
240/120	4	5000	20000	D5000-4E-B	33 3/8	15	17 1/2	290	305	380	400	5, 15, 30, 60	635.40
240/120	2	10000	20000	D5000-2E2P-B	33 3/8	16 3/8	16 3/8	300	315	400	420	15, 30, 60	674.10
240/120	6	5000	30000	D5000-6E-B	46 5/8	15	17 1/2	465	480	565	585	15, 30, 60	1080.00
240/120	2	15000	30000	D5000-2E3P-B	46 5/8	16 1/8	16 1/8	500	515	610	630	15, 30, 60	1141.20
4-Wire, 3 Phase, 50/60 Cycle Service													
208/120	3	2000	6000	D2000-3E	21 1/4	9 1/4	10 3/8	68	90	87	109	5, 15, 30, 60	194.40
208/120	3	5000	15000	D5000-3E-B	22 3/8	15 7/8	18	215	230	285	305	5, 15, 30, 60	450.00
208/120	6	5000	30000	D5000-6E-B	46 5/8	15	17 1/2	465	480	565	585	15, 30, 60	1080.00
208/120	3	10000	30000	D5000-3E2P-B	46 5/8	16 3/8	16 3/8	485	500	595	615	15, 30, 60	1110.60
208/120	9	5000	45000	MD5000-9E-B	69 7/8	15	17 1/2	.....	665	.....	780	30, 60	2042.10
208/120	3	15000	45000	MD5000-3E3P-B	69 7/8	16 1/8	16 1/8	.....	670	.....	785	30, 60	2133.00

ARROW-HART & HEGEMAN WIRING DEVICES

NU-JUNIOR QUIETTE TOGGLE SWITCHES — H&H INTERMEDIATE GRADE
15 and 20 Amp., 120/277 Volts A.C. Only

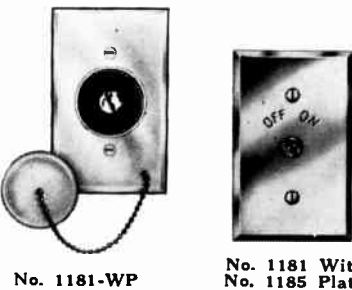


Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches				
1001	Single Pole, Brown	10/100	\$ 53.63	\$ 46.48
1001-I	Single Pole, Ivorylite	10/100	56.63	49.08
1002	Double Pole, Brown	2/10	91.88	79.63
1002-I	Double Pole, Ivorylite	2/10	95.25	82.55
1003	3-Way, Brown	10/50	73.50	63.70
1003-I	3-Way, Ivorylite	10/50	76.88	66.63
1004	4-Way, Brown	2/10	260.25	225.55
1004-I	4-Way, Ivorylite	2/10	264.00	228.80
20 Amp. Switches				
2001	Single Pole, Brown	10/100	85.13	73.78
2001-I	Single Pole, Ivorylite	10/50	88.50	76.70
2002	Double Pole, Brown	2/10	118.50	102.70
2002-I	Double Pole, Ivorylite	2/10	122.25	105.95
2003	3-Way, Brown	10/50	106.88	92.63
2003-I	3-Way, Ivorylite	10/50	110.25	95.55
2004	4-Way, Brown	2/10	324.00	280.80
2004-I	4-Way, Ivorylite	2/10	330.75	286.65

NEW QUIETTE CORBIN LOCK SWITCHES — H&H SPECIFICATION GRADE
15 and 20 Amp., 120/277 Volts A.C. Only
With P. & F. Corbin Pin Tumbler Locks



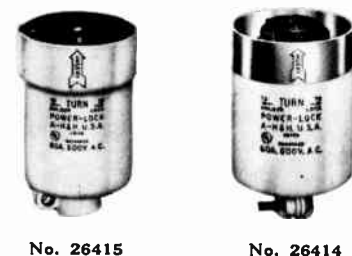
Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches				
1181	Single Pole	1/10	\$ 862.50	\$ 747.50
1182	Double Pole	1/10	927.00	803.40
1183	3-Way	1/10	907.50	786.50
1181-WP	Single Pole, Weatherproof	1/10	1050.00	910.00
1182-WP	Double Pole, Weatherproof	1/10	1114.50	965.90
1183-WP	3-Way, Weatherproof	1/10	1095.00	949.00
20 Amp. Switches				
1191	Single Pole	1/10	919.50	796.50
1192	Double Pole	1/10	949.50	822.90
1193	3-Way	1/10	942.75	817.05
1191-WP	Single Pole, Weatherproof	1/10	1107.00	959.40
1192-WP	Double Pole, Weatherproof	1/10	1137.00	985.40
1193-WP	3-Way, Weatherproof	1/10	1130.25	979.55



Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
FLUSH SWITCH PLATES				
1185	.060" Brush Brass	1/10	\$177.38	\$153.73
1187	Stainless Steel	1/10	177.38	153.73
1197	Anodized Aluminum	1/10	177.38	153.73

"POWER-LOCK" 4-WIRE POWER INTERRUPTING DEVICES
60 Amp., 600 Volts A.C.
Heavy Duty — Industrial Type

ARMORED CORD CONNECTORS AND CAPS



Cat. No. A-H&H	Cord Dia., Inches	Bushing Hole, In.	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
With Adjustable Metal Cord Grips					
26414	26414-NG	Connector .....	.750-1.250	2/10	\$1575.00 \$1365.00
26415	26415-NG	Cap .....	.750-1.250	2/10	1496.25 1296.75
With Outer Shell, Rubber Bushings and Adjustable Metal Cord Grips					
26427	26427-NG	Connector .....	.750-1.250 .750	2/10	1968.75 1706.25
26442	26442-NG	Connector .....	.750-1.250 1.000	2/10	1968.75 1706.25
26418	26418-NG	Connector .....	.750-1.250 1.281	2/10	1968.75 1706.25
26426	26426-NG	Cap .....	.750-1.250 .750	2/10	1811.25 1569.75
26443	26443-NG	Cap .....	.750-1.250 1.000	2/10	1811.25 1569.75
26419	26419-NG	Cap .....	.750-1.250 1.281	2/10	1811.25 1569.75

Note: Above devices available in 5-wire also.

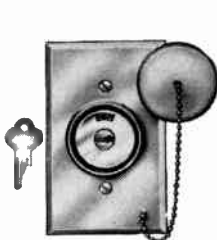
ARROW-HART & HEGEMAN WIRING DEVICES

ROTARY LOCK SWITCHES — H&H SPECIFICATION GRADE
 2, 5, 10 and 20 Amp., 125 and 250 Volts
 With P. & F. Corbin Pin Tumbler Locks

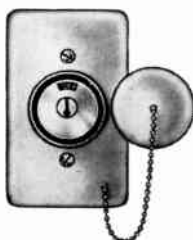


No. 1282

Cat. No. A-H&H	Description	Amperes		Ctn./Pkg.	Per 100	
		125V.	250V.		Ctn.	Std. Pkg.
Standard Switches						
1281	Single Pole	10	5	1/10	\$1187.25	\$1028.95
1282	Double Pole	10	10	1/10	1350.00	1170.00
1283	3-Way	10	5	1/10	1350.00	1170.00
1284	4-Way	5	2	1/10	1447.50	1254.50
1288	Single Pole, Quad. Break	20	10	1/10	1324.50	1147.90
1290	Single Pole, 2 Circuit Indicating 1-Off, 2-Off	5	2	1/10	1270.13	1100.78
1285	Single Gang, Plate	---	---	1/10	251.25	217.75
1280-BA	Single Pole, 2 Circuit Indicating "On"-"Off"	5	2	1/10	1250.25	1083.55



No. 1281-WP



No. 1281-FS

Weatherproof Switches						
1281-WP	Single Pole	10	5	1/10	1447.50	1254.50
1282-WP	Double Pole	10	10	1/10	1583.63	1372.48
1283-WP	3-Way	10	5	1/10	1529.25	1325.35
1284-WP	4-Way	5	2	1/10	1575.75	1365.65
1288-WP	Single Pole, Quad. Break	20	10	1/10	1585.13	1373.78
1290-WP	Single Pole, 2 Circuit Indicating 1-Off, 2-Off	5	2	1/10	1529.63	1325.68

Weatherproof Switches With "FS" Plates						
1281-FS	Single Pole	10	5	1/10	1396.13	1209.98
1282-FS	Double Pole	10	10	1/10	1522.13	1319.18
1283-FS	3-Way	10	5	1/10	1524.00	1320.80
1284-FS	4-Way	5	2	1/10	1667.63	1445.28
1288-FS	Single Pole, Quad. Break	20	10	1/10	1533.75	1329.25

3 POSITION, 2 CIRCUIT MAINTAINED CONTACT TOGGLE SWITCHES
 10, 20 and 30 Amp., 125 Volts; 5, 10 and 20 Amp., 250 Volts



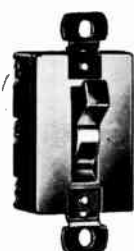
No. 4356



No. 4357-I

Cat. No. A-H&H	Description	Amperes		Takes Plate No.	Ctn./Pkg.	Per 100	
		125V.	250V.			Ctn.	Std. Pkg.
Single Pole, Double Throw Switches							
4356	Black	10	5	4359	2/10	\$596.25	\$516.75
4356-I	Ivorylite	10	5	4377	2/10	599.25	519.35
4356-LA	Lock, Brass	10	5	4392, 4391	1/10	626.63	543.08
Double Pole, Double Throw Switches							
4357	Black	10	5	4359	2/10	604.13	523.58
4357-I	Ivorylite	10	5	4377	2/10	607.50	526.50
4357-LA	Lock, Brass	10	5	4392, 4391	1/10	634.50	549.90
4361	Black	20	10	4358, 4362	2/10	845.63	732.88
4361-I	Ivorylite	20	10	4358, 4362	2/10	853.50	739.70
4371	Black	30	20	4363, 4363C	2/10	967.88	838.83
4371-I	Ivorylite	30	20	4363, 4363C	2/10	975.75	845.65
4399	Key	---	---	---	2/10	23.63	20.48

SWITCH PLATES



No. 4361



No. 4371-I



No. 4358

Cat. No. A-H&H	Description	For Switch No.	Ctn./Pkg.	Per 100	
				Ctn.	Std. Pkg.
1-Gang With Markings					
4358	.060" Brush Brass — Summer, Off, Winter	4361	2/10	\$148.50	\$128.70
4359	.060" Brush Brass — Summer, Off, Winter	4356, 4357	2/10	148.50	128.70
4363C	Stainless Steel — Air Conditioning, Summer, Off, Winter	4371, 4371-I	2/10	148.50	128.70
4377	Ivorylite — Summer, Off, Winter	4356-I, 4357-I	10/30	63.75	55.25
4392	.040" Brush Brass — On, Off, On	4356-LA, 4357-LA	2/10	93.00	80.60
1-Gang With No Markings					
4362	.060" Brush Brass	4361	2/10	92.25	79.95
4363	.060" Brush Brass	4371, 4371-I	2/10	133.88	116.03
4391	.040" Brush Brass	4356-LA, 4357-LA	2/10	63.38	54.93

ARROW-HART & HEGEMAN WIRING DEVICES

**SUPER DELUXE DUPLEX GROUNDING RECEPTACLES — H & H SPECIFICATION GRADE
15 and 20 Amp., 125 and 250 Volts**



No. 5213



No. 6262

Cat. No. A-H&H	Per 100 Ctn. Std. Pkg.	Description	Ctn./Pkg.	Cat. No. A-H&H	Per 100 Ctn. Std. Pkg.
15 Amp., 125 Volts					
6262	\$208.88 \$181.03	Brown	10/50	6739	\$273.38 \$236.93
6262-I	219.38 190.13	Ivorylite	10/50	6739-I	283.88 246.03
6262-GRY	219.38 190.13	Gray	10/50	6739-GRY	283.88 246.03
15 Amp., 250 Volts					
6662	238.13 206.38	Brown	10/50	6862	290.25 251.55
6662-I	249.00 215.80	Ivorylite	10/50	6862-I	300.38 260.33
6662-GRY	249.00 215.80	Gray	10/50	6862-GRY	300.38 260.33
20 Amp., 125 Volts					
20 Amp., 250 Volts					

**DUPLEX GROUNDING RECEPTACLES
15 Amp., 125 Volts
Side Wired Only**

Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn. Std. Pkg.
5213	Brown	10/100	\$ 42.38 \$ 36.73
5213-I	Ivorylite	10/100	45.75 39.65
5220	Brown on 4" Metal Cover	10/50	65.25 56.55

**GROUNDING TYPE DEVICES — H&H SPECIFICATION GRADE
30 and 50 Amp., 125 and 250 Volts**

Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn. Std. Pkg.
30 Amp., 125 Volts				
5716	Receptacle, Black Bakelite		2/10	\$229.88 \$199.23
5717	Cap, Black Rubber W/Cord Grip .625-1.000		2/10	467.63 405.28
30 Amp., 250 Volts				
5700	Receptacle, Black Bakelite		2/10	229.88 199.23
5701	Cap, Black Rubber W/Cord Grip .625-1.000		2/10	488.25 423.15
50 Amp., 125 Volts				
5711	Receptacle, Black Bakelite		2/10	229.88 199.23
5712	Cap, Black Rubber W/Cord Grip .625-1.000		2/10	463.88 402.03
5713	Cap, Black Rubber W/Cord Grip .750-1.250		2/10	529.88 459.23
50 Amp., 250 Volts				
5709	Receptacle, Black Bakelite		2/10	229.88 199.23
5710	Cap, Black Rubber W/Cord Grip .625-1.000		2/10	463.88 402.03
5704	Cap, Black Rubber W/Cord Grip .750-1.250		2/10	529.88 459.23



No. 5716



No. 5717

SINGLE OPENING RECEPTACLE PLATES

9301	1-Gang, .040" Brush Brass Finish	10/30	67.50	58.50
9301-C	1-Gang, Stainless Steel, Satin Finish	10/30	61.13	52.98
9302	2-Gang, .040" Brush Brass Finish	2/10	109.88	95.23
9302-C	2-Gang, Stainless Steel, Satin Finish	2/10	104.25	90.35

**TYPE "NF" MANUAL STARTERS
Without Overload Protection**

Cat. No. A-H&H	Description	Metal Box Enclosure	Ctn./Pkg.	Per 100 Ctn. Std. Pkg.
Double Pole, Single Phase 2 H.P., 115-600 Volts A.C. or D.C. 30 Amp., 250 Volts; 20 Amp., 600 Volts				
6808	Surface Style	Pressed Metal	10/30	\$ 447.38 \$ 387.73
6808-E	For Hazardous Locations*	Cast	2/10	2126.25 1842.75
6808-F	Flush Style With Plate	None	2/10	436.13 377.98
6808-U	Switch Unit for 6808	None	10/30	374.25 324.35
6808-W	Weatherproof Style	Cast	2/10	2126.25 1842.75



**Three Pole, Three Phase
2 H.P., 110-600 Volts A.C. Only
30 Amp., 250 Volts; 20 Amp., 600 Volts A.C. Only**

7810	Surface Style	Pressed Metal	10/30	1091.63	946.08
7810-E	For Hazardous Locations*	Cast	5/20	2806.50	2432.30
7810-F	Flush Style With Plate	None	2/10	1299.38	1126.13
7810-U	Switch Unit for 7810	None	10/30	987.38	855.73
7810-W	Weatherproof Style	Cast	5/20	2806.50	2432.30

*For use in hazardous locations: Class I, Groups C and D; Class II, Groups E, F and G.

BELL DELUXE METAL AND PLASTIC WALL PLATES

America's most complete line. When ordering simply show style, gang and finish symbol as listed below:

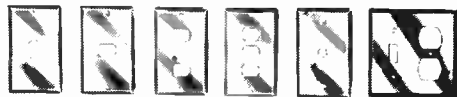
STYLE NOS. Select Nos. from dwgs. shown	GANG SIZE Add size—up to 10-gang	FINISH Add finish symbol for finish desired
---	--	---

Example: Duplex Receptacle, 1-gang
12 -1 -C (2-gang = 12-2-C)
Duplex — 1-gang — Chrome finish

WALL PLATE STYLES



10 11 12 13 14 15



16 17 18 19 20 58-2

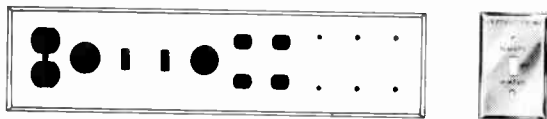
FINISH SYMBOLS: -C = Chrome, -SS = Stainless Steel, -SB = Satin Brass, -IC = Ivory Crackle, -BC = Brown Crackle, -BR = Brown Plastic, -IV = Ivory Plastic, -WH = White Plastic.

Per 100 Wall Plates, Any Style

Finish Symbol	-1 One Gang	-2 Two Gang	58-2 Two Gang	-3 Three Gang	-4 Four Gang	-5 Five Gang
-C	\$14.87	\$29.75	\$29.75	\$44.62	\$59.50	\$74.37
-SS	28.05	56.10	56.10	84.15	112.20	140.25
-SB	45.05	81.60	81.60	122.40	163.30	204.00
-IC	8.07	16.15	16.15	24.22	32.30	40.37
-BC	8.07	16.15	16.15	24.22	32.30	40.37
-BR	8.50	16.15	16.15	24.22*	32.30*	.....
-IV	11.90	22.95	22.95	34.42*	45.90*	.....
-WH	12.75	24.65	24.65	36.97*	.....	.....

*Available in Style 10 only.

BELL SPECIALTY WALL PLATES



Custom wall plates are available in any number of gangs up to 10, in any combination of openings, for either standard or interchangeable devices, in a choice of over 30 different metal, plastic or painted finishes. Prices on application.

Oversize wall plates are available in 12 different one and two gang styles and in 25 finishes.

Engraved plates are available in choice of 7 finishes, engravings as specified, lettering color as desired. Write for prices.

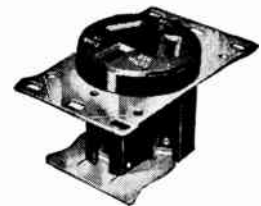
Narrow plates, telephone hardware plates, framed plates, and standard plates in 26 different device openings are available. Write for prices.

BELL WIRING DEVICES

FLUSH MOUNTING RANGE AND DRYER POWER OUTLETS



No. 160



No. 162

For all electric range, dryer and industrial applications, indoor and outdoor. Has sliding back-plate. Ears scored at corners for easy breakoff. Can be used in single gang box, 4" or 4 1/4" square boxes with raised 1/2" plaster cover. Rugged pressure type terminals accommodate up to #6 wire. Multiple screw holes in yoke permits varied types of mounting.

One unit per carton.

Cat. No.	Description	Std. Pkg.	Per 100
	30 Amp., 250 V., 3-Wire		
160	With L-Shaped Grounding Slot	50	\$97.50
	50 Amp., 250 V., 3-Wire		
162	With Straight Grounding Slot	50	\$97.50

ELECTRONIC NITE SWITCH



Automatic, dawn-to-dusk lighting control. Switches on at 1 f.c. and off at 10 f.c.

Switch Only			Switch, Gasket, S.S. Mtg. Plate		
Cat. No.	Watts	Each	Cat. No.	Watts	Each
1100	300	\$6.68	1105	300	\$7.13
1101	600	7.43	1106	600	7.88

WEATHERPROOF POWER BOXES AND COVERS



Extra deep, rugged, cast aluminum. For 3- or 4-wire Power Outlets — 30, 50, or 60 amp. Tamper-proof. Can be padlocked — padlock not included. Easy installation. With gaskets. For trailer courts, shipping docks, welding and other industrial applications. U/L listed.

Power Box Only

Cat. No.	Description	Each
900	1" Threaded outlet	\$4.13
901	1 1/4" Threaded outlet	4.50
	Power Cover Only	
902	For 30, 50 Amp 3-Wire	\$8.63
903	For 30, 50, 60 Amp 4-wire	8.63

HUBBELL WIRING DEVICES

TOGGLE TYPE A.C. SWITCHES — SPECIFICATION GRADE
15, 20 and 30 Amp., 120/277 Volts A.C. Only



No. 1221



No. 1221-L

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches					
1201	1891	Single Pole, Brown Handle	10/50	\$111.38	\$ 96.53
1201-I	1891-I	Single Pole, Ivorine Handle	10/50	114.75	99.45
1201-GRY	1891-GRY	Single Pole, Gray Handle	10/50	114.75	99.45
1201-L	1891-L	Single Pole, Lock Type	10/50	199.88	173.23
1202	1892	Double Pole, Brown Handle	2/10	186.75	161.85
1202-I	1892-I	Double Pole, Ivorine Handle	2/10	190.13	164.78
1202-GRY	1892-GRY	Double Pole, Gray Handle	2/10	190.13	164.78
1202-L	1892-L	Double Pole, Lock Type	2/10	269.25	233.35
1203	1893	3-Way, Brown Handle	10/20	164.25	142.35
1203-I	1893-I	3-Way, Ivorine Handle	10/20	167.25	144.95
1203-GRY	1893-GRY	3-Way, Gray Handle	10/20	167.25	144.95
1203-L	1893-L	3-Way, Lock Type	10/20	233.63	202.48
1204	1894	4-Way, Brown Handle	2/10	417.38	361.73
1204-I	1894-I	4-Way, Ivorine Handle	2/10	420.38	364.33
1204-GRY	1894-GRY	4-Way, Gray Handle	2/10	420.38	364.33
1204-L	1894-L	4-Way, Lock Type	2/10	503.63	436.48
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55

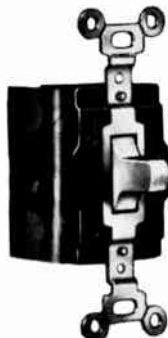
Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
20 Amp. Switches					
1221	1991	Single Pole, Brown Handle	10/30	178.13	154.38
1221-I	1991-I	Single Pole, Ivorine Handle	10/30	188.25	163.15
1221-GRY	1991-GRY	Single Pole, Gray Handle	10/30	188.25	163.15
1221-L	1991-L	Single Pole, Lock Type	2/10	262.88	227.83
1222	1992	Double Pole, Brown Handle	2/10	213.00	184.60
1222-I	1992-I	Double Pole, Ivorine Handle	2/10	223.13	193.38
1222-GRY	1992-GRY	Double Pole, Gray Handle	2/10	223.13	193.38
1222-L	1992-L	Double Pole, Lock Type	2/10	298.13	258.38
1223	1993	3-Way, Brown Handle	2/10	204.75	177.45
1223-I	1993-I	3-Way, Ivorine Handle	2/10	215.63	186.88
1223-GRY	1993-GRY	3-Way, Gray Handle	2/10	215.63	186.88
1223-L	1993-L	3-Way, Lock Type	2/10	291.75	252.85
1224	1994	4-Way, Brown Handle	2/10	454.88	394.23
1224-I	1994-I	4-Way, Ivorine Handle	2/10	466.13	403.98
1224-GRY	1994-GRY	4-Way, Gray Handle	2/10	466.13	403.98
1224-L	1994-L	4-Way, Lock Type	2/10	540.38	468.33
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
30 Amp. Switches					
3031	3991	Single Pole, Brown Handle	2/10	253.50	219.70
3031-I	3991-I	Single Pole, Ivorine Handle	2/10	264.38	229.13
3032	3992	Double Pole, Brown Handle	2/10	327.38	283.73
3032-I	3992-I	Double Pole, Ivorine Handle	2/10	337.88	292.83
3033	3993	3-Way, Brown Handle	2/10	317.63	275.28
3033-I	3993-I	3-Way, Ivorine Handle	2/10	327.75	284.05

TOGGLE TYPE A.C. SWITCHES — SPECIFICATION GRADE

THREE POSITION TWO CIRCUIT MAINTAINED CONTACT

15 and 20 Amp., 120/277 Volts A.C. Only; 1 H.P., 120/240 Volts A.C. Only



No. 1381-I

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches — Double Throw — Center Off					
1381	Single Pole, Brown Handle	2/10	\$625.88	\$542.43
1381-I	Single Pole, Ivorine Handle	2/10	629.25	545.35
1381-L	Single Pole, Lock Type	2/10	658.13	570.38
1382	Double Pole, Brown Handle	2/10	634.50	549.90
1382-I	Double Pole, Ivorine Handle	2/10	637.88	552.83
1382-L	Double Pole, Lock Type	2/10	666.38	577.53
20 Amp. Switches — Double Throw — Center Off					
1385	Single Pole, Brown Handle	2/10	709.50	614.90
1385-I	Single Pole, Ivorine Handle	2/10	712.88	617.83
1385-L	Single Pole, Lock Type	2/10	741.38	642.53
1386	Double Pole, Brown Handle	2/10	717.75	622.05
1386-I	Double Pole, Ivorine Handle	2/10	721.50	625.30
1386-L	Double Pole, Lock Type	2/10	749.63	649.68

SWITCH PLATES

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
92071-AC	1-Gang Ivorine With Marking for Air Conditioning	10/30	63.75	55.25
94071-AC	1-Gang .040" Brush Brass With Marking for Air Conditioning	2/10	148.50	128.70

HUBBELL WIRING DEVICES

THREE POSITION TWO CIRCUIT MOMENTARY CONTACT

15 and 20 Amp., 120/277 Volts A.C. Only



No. 1557

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches — Double Throw					
1556	1895	Single Pole, Brown Handle	2/10	\$231.75	\$200.85
1556-I	1895-I	Single Pole, Ivorine Handle	2/10	235.50	204.10
1556-GRY	.....	Single Pole, Gray Handle	2/10	245.25	212.55
1556-L	1895-L	Single Pole, Lock Type	2/10	298.13	258.38
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55
20 Amp. Switches — Double Throw					
1557	1995	Single Pole, Brown Handle	2/50	295.13	255.78
1557-I	1995-I	Single Pole, Ivorine Handle	2/50	306.38	265.53
1557-L	1995-L	Single Pole, Lock Type	2/10	361.50	313.30
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55

TOGGLE TYPE A.C. SWITCHES — INTERMEDIATE GRADE

15 and 20 Amp., 120/277 Volts A.C. Only



No. 1101



No. 1122

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Switches					
1101	1101	Single Pole, Brown Handle	10/100	\$ 82.13	\$ 71.18
1101-I	1101-I	Single Pole, Ivorine Handle	10/100	85.88	74.43
1101-GRY	1101-GRY	Single Pole, Gray Handle	10/100	85.88	74.43
1101-L	1101-L	Single Pole, Lock Type	10/50	138.13	115.38
1102	1102	Double Pole, Brown Handle	2/10	140.25	121.55
1102-I	1102-I	Double Pole, Ivorine Handle	2/10	143.63	124.48
1102-GRY	1102-GRY	Double Pole, Gray Handle	2/10	143.63	124.48
1102-L	1102-L	Double Pole, Lock Type	2/10	190.88	165.43
1103	1103	3-Way, Brown Handle	10/50	123.00	106.60
1103-I	1103-I	3-Way, Ivorine Handle	10/50	126.00	109.20
1103-GRY	1103-GRY	3-Way, Gray Handle	10/50	126.00	109.20
1103-L	1103-L	3-Way, Lock Type	10/20	173.63	150.48
1104	1104	4-Way, Brown Handle	2/10	329.63	285.68
1104-I	1104-I	4-Way, Ivorine Handle	2/10	333.00	288.60
1104-GRY	1104-GRY	4-Way, Gray Handle	2/10	333.00	288.60
1104-L	1104-L	4-Way, Lock Type	2/10	380.25	329.55
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55
20 Amp. Switches					
1121	2101	Single Pole, Brown Handle	10/100	121.88	105.63
1121-I	2101-I	Single Pole, Ivorine Handle	10/100	125.25	108.55
1121-GRY	1121-GRY	Single Pole, Gray Handle	10/50	125.25	108.55
1122	2102	Double Pole, Brown Handle	2/10	144.00	124.80
1122-I	2102-I	Double Pole, Ivorine Handle	2/10	147.38	127.73
1122-GRY	1122-GRY	Double Pole, Gray Handle	2/10	147.38	127.73
1123	2103	3-Way, Brown Handle	10/50	144.00	124.80
1123-I	2103-I	3-Way, Ivorine Handle	10/50	147.38	127.73
1123-GRY	1123-GRY	3 Way, Gray Handle	10/50	147.38	127.73
1124	2104	4-Way, Brown Handle	2/10	367.50	318.50
1124-I	2104-I	4-Way, Ivorine Handle	2/10	370.50	321.10
1124-GRY	2104-GRY	4-Way, Gray Handle	2/10	370.50	321.10
1209	.....	Key for Lock Type Switches	2/10	20.25	17.55

TOGGLE TYPE A.C. - D.C. SWITCHES — SPECIFICATION AND INTERMEDIATE GRADE*

**2, 5, 10, 20 and 30 Amp., 250 Volts
5, 10, 20 and 30 Amp., 125 Volts**



No. 9801



No. 8801

Hubbell	Cat. No. A-H&H	Description	Amperes 125V.T. 250V.			Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Specification Grade — Brown Handles								
9801	1531	Single Pole	10	5	10/50	\$131.25	\$113.75	
9802	1532	Double Pole	10	10	2/10	217.13	188.18	
9803	1533	3-Way	10	5	10/20	159.38	138.13	
9804	1534	4-Way	5	2	2/10	512.25	443.95	
9805	1541	Single Pole	20	10	10/20	228.00	197.60	
9806	1542	Double Pole	20	10	2/10	273.00	236.60	
9933	.....	3-Way	20	10	2/10	265.13	229.78
9815	1541	Single Pole	20	20	10/30	219.00	189.80	
9816	1542	Double Pole	20	20	2/10	236.25	204.75	
9943	1543	3-Way	20	20	2/10	236.25	204.75	
Intermediate Grade — Brown Handles								
8801	8601	Single Pole	10	5	10/100	93.75	81.25	
8802	8602	Double Pole	10	10	10/50	138.75	120.25	
8803	8603	3-Way	10	5	10/50	135.00	117.00	
8804	8604	4-Way	5	2	2/10	306.00	265.20	
8941	8914	Single Pole	20	20	10/50	187.50	162.50	
8942	8931	Double Pole	20	20	10/20	255.00	221.00	
8943	8913	3-Way	20	10	2/10	236.25	204.75	

*Brown handle switches; for Ivorine handles, add suffix "I" to catalog number.

HUBBELL WIRING DEVICES

"PRESSWITCH" A.C. SWITCHES — SPECIFICATION GRADE
15 and 20 Amp., 120/277 Volts A.C. Only

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Standard Presswitch					
1251	2891	Sgl. Pole, Brown Nylon Button	10/50	\$111.38	\$ 96.53
1251-I	2891-I	Sgl. Pole, Ivorine Nylon Button	10/50	114.75	99.45
1251-GRY	2891-GRY	Sgl. Pole, Gray Nylon Button ..	10/50	114.75	99.45
1252	2892	Dbl. Pole, Brown Nylon Button	2/10	186.75	161.85
1252-I	2892-I	Dbl. Pole, Ivorine Nylon Button	2/10	190.13	164.78
1252-GRY	2892-GRY	Dbl. Pole, Gray Nylon Button ..	2/10	190.13	164.78
1253	2893	3-Way, Brown Nylon Button	10/20	164.25	142.35
1253-I	2893-I	3-Way, Ivorine Nylon Button ..	10/20	167.25	144.95
1253-GRY	2893-GRY	3-Way, Gray Nylon Button	10/20	167.25	144.95
1254	2894	4-Way, Brown Nylon Button	2/10	417.38	361.73
1254-I	2894-I	4-Way, Ivorine Nylon Button ..	2/10	420.38	364.33
1254-GRY	2894-GRY	4-Way, Gray Nylon Button	2/10	420.38	364.33



No. 1251-I

20 Amp. Standard Presswitch					
1281	2991	Sgl. Pole, Brown Nylon Button	10/30	178.13	154.38
1281-I	2991-I	Sgl. Pole, Ivorine Nylon Button	10/30	188.25	163.15
1281-GRY	2991-GRY	Sgl. Pole, Gray Nylon Button ..	10/30	188.25	163.15
1282	2992	Dbl. Pole, Brown Nylon Button	2/10	213.00	184.60
1282-I	2992-I	Dbl. Pole, Ivorine Nylon Button	2/10	233.13	193.38
1282-GRY	2992-GRY	Dbl. Pole, Gray Nylon Button ..	2/10	223.13	193.38
1283	2993	3-Way, Brown Nylon Button	2/10	204.75	177.45
1283-I	2993-I	3-Way, Ivorine Nylon Button ..	2/10	215.63	186.88
1283-GRY	2993-GRY	3-Way, Gray Nylon Button	2/10	215.63	186.88
1284	2994	4-Way, Brown Nylon Button	2/10	454.88	394.23
1284-I	2994-I	4-Way, Ivorine Nylon Button ..	2/10	466.13	403.98
1284-GRY	2994-GRY	4-Way, Gray Nylon Button	2/10	466.13	403.98

15 Amp. Lighted Button Presswitch

1257-I	2897-I	Sgl. Pole, Ivorine Button	10/30	188.25	163.15
1258-I	2898-I	3-Way, Ivorine Button	2/10	258.38	223.93
1259-I	.....	4-Way, Ivorine Button	2/10	494.25	428.35

20 Amp. Lighted Button Presswitch

1287-I	2997-I	Sgl. Pole, Ivorine Button	10/30	258.38	223.93
1288-I	2998-I	3-Way, Ivorine Button	2/10	328.50	284.70

15 Amp. Pilot Light Presswitch

1277	2899-R	Sgl. Pole, Red Nylon Button	10/30	192.00	166.40
1277-I	2899-I	Sgl. Pole, Ivorine Nylon Button	10/50	192.00	166.40
1278	.....	3-Way, Red Nylon Button	2/10	355.13	307.78
1278-I	.....	3-Way, Ivorine Nylon Button ..	2/10	352.13	305.18

20 Amp. Pilot Light Presswitch

1297	2999-R	Sgl. Pole, Red Nylon Button	10/30	262.13	227.18
1297-I	2999-I	Sgl. Pole, Ivorine Nylon Button	10/30	262.13	227.18
1298	.....	3-Way, Red Nylon Button	2/10	463.13	401.38
1298-I	.....	3-Way, Ivorine Nylon Button ..	2/10	466.13	403.98

15 Amp. Momentary Contact Presswitch

1251-MC	.....	Sgl. Pole, Cir. Normally Closed	2/10	269.63	233.68
1251-MO	.....	Sgl. Pole, Cir. Normally Open ..	2/10	269.63	233.68

20 Amp. Momentary Contact Presswitch

1281-MC	.....	Sgl. Pole, Cir. Normally Closed	2/10	345.00	299.00
1281-MO	.....	Sgl. Pole, Cir. Normally Open ..	2/10	345.00	299.00

SPECIAL PURPOSE LOCKING ATTACHMENTS



No. 96061



No. 96067

Hubbell	Cat. No.	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
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Locking Attachment for Switches

96061	Straight Keying (all locks alike)	2/10	\$793.13	\$687.38
96062	Straight Keying (all locks individual)	2/10	793.13	687.38
96059	Master Keying (all locks alike in groups)	2/10	(Check Factory)	
96060	Master Keying (all locks individual)	2/10	960.00	832.00

Locking Cover and Plate for Single Outlets

96067	Straight Keying (all locks alike)	2/10	944.63	818.68
96068	Straight Keying (all locks individual)	2/10	944.63	818.68
96065	Master Keying (all locks alike in groups)	2/10	(Check Factory)	
96066	Master Keying (all locks individual)	2/10	1111.50	963.30

HUBBELL WIRING DEVICES

STRAIGHT BLADE 2-WIRE DUPLEX OUTLETS — SPECIFICATION GRADE
15 Amp., 125 Volts A.C. or D.C.



No. 9260

No. 9595

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
For Back or Side Wiring					
9260	9260	Brown Phenolic	10/100	\$ 72.38	\$ 62.73
9260-I	9260-I	Ivory Phenolic	10/50	78.75	68.25
For Side Wiring					
9595	1913	Brown Phenolic	10/100	48.75	42.25
9595-I	1913-I	Ivory Phenolic	10/100	56.25	48.75
9595-GRY	1913-GRY	Gray Phenolic	10/100	56.25	48.75
9575	1913-A	With Narrow Ears	10/100	48.75	42.25
7260	8264	On 3 1/4" Metal Box Cover	10/50	71.25	61.75
7137	8272	On 4" Metal Box Cover	5/50	74.63	64.68

STRAIGHT BLADE 2-WIRE HEAVY DUTY CAPS
15 Amp., 125 Volts A.C. or D.C.



No. 7057

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Armored Caps						
7057	7650	With Cord Grip .....	.296-.562	10/50	\$ 59.63	\$ 51.68
7184	7650	With Cord Grip .....	.406-.625	10/50	59.63	51.68
7059	7651	With Cord Grip* .....	.296-.562	10/50	70.50	61.10
7185	7651	With Cord Grip* .....	.406-.625	10/50	70.50	61.10
9077	9077	With Angle Cord Grip .....	.500-.625	10/50	106.13	91.98
7162	TP	With Cord Grip, Double "T" Blades .....	.296-.562	10/30	85.88	74.43
7286	.....	With Cord Grip, Double "T" Blades* .....	.296-.562	10/30	97.88	84.83
Rubber Caps						
9754	7640	With Cord Grip .....	.296-.625	10/50	54.75	47.45
9755	7641	With Cord Grip* .....	.296-.625	10/50	65.25	56.55
9972	3480	Without Cord Grip .....	.312-.437	25/100	33.38	28.93
9934	3482	Without Cord Grip .....	.625	25/100	33.38	28.93
9973	.....	Without Cord Grip* .....	.312-.437	25/100	40.88	35.43
9935	.....	Without Cord Grip* .....	.625	25/100	40.88	35.43
9940	3486	With Cord Grip .....	.312-.437	25/100	48.75	42.25
9937	3488	With Cord Grip .....	.625	25/100	48.75	42.25
9941	.....	With Cord Grip* .....	.312-.437	25/100	55.50	48.10
9938	.....	With Cord Grip* .....	.625	25/100	55.50	48.10
9759	.....	With Cord Grip, Double "T" Blades .....	.296-.625	10/50	91.50	79.30
9760	.....	With Cord Grip, Double "T" Blades* .....	.296-.625	10/50	99.38	86.13

*Polarized.



No. 9754



No. 9940

STRAIGHT BLADE 2-WIRE HEAVY DUTY CONNECTOR BODIES
15 Amp., 125 Volts A.C. or D.C.



No. 7084

No. 7611

No. 9952

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Armored Connector Bodies						
7084	7234	With Cord Grip .....	.296-.562	10/50	\$ 97.13	\$ 84.18
7187	7234	With Cord Grip .....	.406-.625	10/50	97.13	84.18
Phenolic Connector Bodies						
7080	4425	Without Cord Grip .....	.312	10/50	74.63	64.68
5574	8222	Without Cord Grip .....	.406	10/50	74.63	64.68
7614	8225	With Cord Grip .....	.218-.312	10/50	89.63	77.68
7611	8224	With Cord Grip .....	.296-.562	10/50	89.63	77.68
Rubber Connector Bodies						
9952	4492	Without Cord Grip .....	.312-.468	10/50	63.00	54.60
9954	4493	Without Cord Grip .....	.625	10/50	63.00	54.60
9953	4494	With Cord Grip .....	.312-.468	10/50	76.13	65.98
9955	4495	With Cord Grip .....	.625	10/50	76.13	65.98

HUBBELL WIRING DEVICES

**STRAIGHT BLADE 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS — SPECIFICATION GRADE
15 Amp., 125 Volts A.C. or D.C.**



No. 5262



No. 5261

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
5262	5262	Brown Phenolic	10/50	\$192.00	\$166.40
5262-I	5262-I	Ivory Phenolic	10/50	202.50	175.50
5262-GRY	5262-GRY	Gray Phenolic	10/50	202.50	175.50
5282	5282	On 4" Metal Box Cover	5/50	210.38	182.33
Single Outlets					
5261	5261	Brown Phenolic	10/50	145.88	126.43
5261-I	5261-I	Ivory Phenolic	10/50	154.88	134.23
5261-GRY	5261-GRY	Gray Phenolic	10/50	154.88	134.23
5271	5271	On 3 1/4" Metal Box Cover	10/50	158.25	137.15

**STRAIGHT BLADE 3-WIRE SAFETY GROUNDING DUPLEX OUTLETS — SPECIFICATION GRADE
15 Amp., 125 Volts A.C. or D.C.**

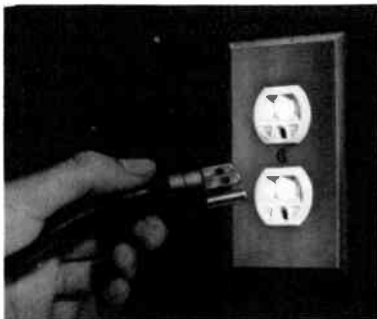


No. SG-62

Allows current to flow only when conventional plug cap is inserted. Internal construction shunts current harmlessly away when any other metallic object is inserted into slots.

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
SG-62	6352	Brown Phenolic	10/50	\$228.00	\$197.00
SG-62-I	6352-I	Ivory Phenolic	10/50	238.13	206.38
SG-62-GRY	6352-GRY	Gray Phenolic	10/50	256.13	221.98

**STRAIGHT BLADE 3-WIRE GROUNDING LIGHTED FACE DUPLEX OUTLET — SPECIFICATION GRADE
15 Amp., 125 Volts A.C. or D.C.**



No. 5262-IL

This outlet has all of the quality construction features of No. 5262 except its Melamine base is yellow to distinguish it from No. 5262-I. Pre-wired with a neon glowlamp behind each pair of slots. In the dark, the soft red glow of these lamps shines through the ivory phenolic between the slots, making it easy to plug in equipment in darkened areas. Doubles as a night-light where one is needed. A natural for hotels, motels, hospitals, sickrooms, nurseries, projection booths and emergency circuits.

Hubbell	Cat. No.	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
5262-IL		Duplex Outlet With Lighted Face	10/50	\$296.25	\$256.75

**STRAIGHT BLADE 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS
15 Amp., 125 Volts A.C. or D.C.**



No. 5252





No. 5251

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets With 1 Grounding Screw and Lead Wire					
5252	5252	Brown Phenolic	10/50	\$ 96.38	\$ 83.53
5252-I	5252-I	Ivory Phenolic	10/50	106.88	92.63
5252-GRY	5252-GRY	Gray Phenolic	10/50	106.88	92.63
5253	5254	No. 5252 on 4" Metal Box Cover	10/50	113.63	98.48
Duplex Outlets With 1 Grounding Screw					
5242	5250	Brown Phenolic	10/50	70.13	60.78
5242-I	5250-I	Ivory Phenolic	10/50	74.63	64.68
5242-GRY	5242-GRY	Gray Phenolic	10/50	74.63	64.68
5230	5242	Br. Phenolic, Competitive Grade	10/100	58.13	50.38
5230-I	5242-I	Iv. Phenolic, Competitive Grade	10/100	62.63	54.28
Single Outlets With 1 Grounding Screw					
5251	5251	Brown Phenolic	10/50	73.50	63.70
5251-I	5251-I	Ivory Phenolic	10/50	78.38	67.93
5251-GRY	.....	Gray Phenolic	10/50	78.38	67.93

HUBBELL WIRING DEVICES


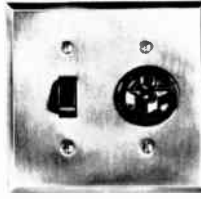
**STRAIGHT BLADE 3-WIRE GROUNDING WEATHERPROOF OUTLET AND PLATE COMBINATIONS
15 Amp., 125 Volts A.C. or D.C.**

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
	5212	No. 5252 Duplex Outlet With Cast Alum. Lift Cover Plate 5210 for Standard Box Mounting	2/10	\$430.50	\$373.10
	5213	No. 5252 Duplex Outlet With Cast Alum. Lift Cover Plate 5211 for FS Box Mounting	2/10	430.50	373.10
	5214	No. 5262 Duplex Outlet With Cast Alum. Lift Cover Plate 5210 for Standard Box Mounting	2/10	530.63	459.88
	5260	Single Outlet With .040" Plate, Metal Closure Cover and Weatherproof Mat	2/10	330.75	286.65
	7793	Threaded Metal Shield for Covering 5263 Cap	2/10	84.38	73.13
	5293	Black Insulprene Single Outlet With 6" #14 Stranded Wire Leads	10/50	185.63	160.88

No. 5214

No. 5260



**STRAIGHT BLADE 3-WIRE GROUNDING SPECIAL PURPOSE OUTLETS
15 Amp., 125 Volts A.C. or D.C.**

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
	5233	Clock Hanger Type, .040" Brass Plate ..	2/10	\$376.13	\$325.98
	5234	Clock Hanger Type, .060" Brass Plate ..	2/20	411.38	356.53
	5235	Clock Hanger Type, S/S Plate	2/10	376.13	325.98
	5231	Fan Hanger Yoke Support Type, .060" Brass Plate	10/20	466.50	404.30
	5231-SS	Fan Hanger Yoke Support Type, S/S Plate	10/20	466.50	404.30
	5232	Fan Hanger Stud Support Type, .060" Brass Plate	10/20	466.50	404.30
	5232-SS	Fan Hanger Stud Support Type, S/S Plate	10/20	466.50	404.30
	5236	Floor Type With Bevel Edge .060" Brass Plate	2/10	527.63	457.28
	5349	Outlet & Warning Light, Switch Controlled, 2 Gage Size, .040" Dull Chrome Plate	2/10	988.13	856.38
	5389	Outlet & Single Pole 20A Pilot Light "Presswitch" With Type 303 S/S Plate	2/10	542.25	469.95

No. 5233

No. 5389

**STRAIGHT BLADE 3-WIRE GROUNDING CAPS
15 Amp., 125 Volts A.C. or D.C.**

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
	Armored Caps					
	5264	With Cord Grip .....	.296-.625	10/50	\$ 73.88	\$ 64.03
	5280	With Anchor Lock and Cord Grip .....	.296-.625	10/50	132.00	114.40
	5287	With Angle Cord Grip (Rd.) (Flat) 1/8" x 3/8"	.296-.625	10/50	130.13	112.78
	Phenolic Caps					
	5263	Brown Without Cord Grip ..	.437	10/50	51.38	44.53
	5263-I	Ivory Without Cord Grip ..	.437	10/50	70.50	61.10
	Rubber Caps					
	5266	With Cord Grip .....	.296-.625	10/50	78.38	67.93
	5274	Finger Grip Type W/o Cord Grip .....	.312-.468	10/50	63.00	54.60
	5275	Finger Grip Type W/o Cord Grip .....	.625	10/50	63.00	54.60
	5276	Finger Grip Type With Cord Grip .....	.312-.468	10/50	79.13	68.58
	5277	Finger Grip Type With Cord Grip .....	.625	10/50	79.13	68.58
	"Insulprene" Cap					
	5208	With Cord Grip .....	.296-.625	10/50	97.50	84.50
	Special Purpose Cap					
	5299	VH-57 Housing, Fusible (to 15 Amp.) W/Cord Grip .....	.296-.625	10/50	258.38	223.93

No. 5264

No. 5280



No. 5287

HUBBELL WIRING DEVICES

**STRAIGHT BLADE 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS — SPECIFICATION GRADE
15 Amp., 250 Volts A.C. or D.C.**



No. 5662



No. 5661

Cat. No. Hubbell	No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
5662	5662	Brown Phenolic	10/50	\$221.63	\$192.08
5662-I	5662-I	Ivory Phenolic	10/50	232.13	201.18
5682	5682	Brown on 4" Metal Box Cover	10/50	239.63	207.68
5682-I	.....	Ivory on 4" Metal Box Cover	10/50	250.88	217.43
Single Outlets					
5661	5661	Brown Phenolic	10/50	160.88	139.43
5661-I	5661-I	Ivory Phenolic	10/50	170.25	147.55

**STRAIGHT BLADE 3-WIRE GROUNDING CAPS AND CONNECTOR BODY
15 Amp., 250 Volts A.C. or D.C.**



No. 5664



No. 5607

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Armored Caps						
5664	5686	With Cord Grip .....	.296-.625	10/50	\$ 81.38	\$ 70.53
5640	.....	With Anchor Lock and Cord Grip .....	.296-.625	10/50	179.63	155.68
5665	.....	With Adjustable 4 Position Cord Grip .....	.296-.625	10/50	130.13	112.78
"Insulprene" Connector Body						
5607	.....	With Cord Grip .....	.296-.625	10/50	213.38	184.93

**"TWIST-LOCK" 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS
15 Amp., 277 Volts A.C.**



No. 4750



No. 4760

Cat. No. Hubbell	No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
4750	4750	For Back or Side Wiring	10/50	\$291.38	\$252.53
4751	4751	For Back or Side Wiring on 4" Metal Box Cover	5/30	319.13	276.58
4752	4752	For Side Wiring, 2 Feeds, 1 Return	10/50	313.88	272.03
4753	4753	For Side Wiring, 2 Feeds, 2 Returns	10/50	313.88	272.03
Single Outlets					
4760	4760	For Side Wiring	10/50	193.88	168.03
4761	4761	For Side Wiring on 4" Metal Cover	5/50	221.25	191.75

**"TWIST-LOCK" 3-WIRE GROUNDING CAPS AND CONNECTOR BODY
15 Amp., 277 Volts A.C.**



No. 4776



No. 4780

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Caps						
4776	4776	Armored With Cord Grip ..	.296-.625	10/50	\$117.00	\$101.40
4773	4773	Phenolic With Cord Grip ..	.296-.625	10/50	107.63	93.28
4770	4770	Rubber With Cord Grip ....	.296-.625	10/50	140.63	121.88
Connector Body						
4780	4780	Phenolic With Cord Grip ..	.296-.625	10/50	184.88	160.23

**"TWIST-LOCK" 3-WIRE GROUNDING FLANGED INLET AND FLANGED OUTLET
15 Amp., 277 Volts A.C.**



No. 4786



No. 4785

Cat. No. Hubbell	No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
4786	4786	Inlet, Exposed Terminals	10/50	\$165.00	\$143.00
4785	4785	Outlet, Covered Terminals	10/50	213.38	184.93

HUBBELL WIRING DEVICES

STRAIGHT BLADE 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS AND CAPS 20 Amp., 125 Volts A.C. or D.C.



No. 5362



No. 5364



No. 5375

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets — Specification Grade					
5362	5739	Brown for Back or Side Wiring	10/50	\$256.88	\$222.62
5362-I	5739-I	Ivory for Back or Side Wiring	10/100	267.00	231.40
5362-GRY	5739-GRY	Gray for Back or Side Wiring	10/50	267.00	231.40
5363	.....	For Back or Side Wiring on 4" Metal Box Cover	5/50	275.25	238.55
Single Outlets — Specification Grade					
5361	5361	Brown for Back or Side Wiring	10/50	180.75	156.65
5361-I	5361-I	Ivory for Back or Side Wiring	10/50	190.88	165.43
5361-GRY	.....	Gray for Back or Side Wiring	10/50	190.88	165.43
Duplex Outlets — Standard Grade					
5352	5735	Brown for Side Wiring	10/50	160.88	139.43
5352-I	5735-I	Ivory for Side Wiring	10/50	172.13	149.18
5352-GRY	5722-GRY	Gray for Side Wiring	10/50	172.13	149.18
5353	5724	For Side Wiring on 4" Metal Box Cover	5/50	180.00	156.00
5342	5762	Brown for Side Wiring	10/50	110.63	95.88
5342-I	5762-I	Ivory for Side Wiring	10/50	114.75	99.45
Single Outlets — Standard Grade					
5351	5721	Brown for Side Wiring	10/50	108.75	94.25
5351-I	5721-I	Ivory for Side Wiring	10/50	118.88	103.03
Caps					
5364	5786	Armored With Cord Grip, Cord Grip Range .296-.625	10/50	129.00	111.80
5359	.....	Armored With 4 Position Angle Cord Grip, Cord Grip Range .296-.625	10/50	187.88	162.83
5365	.....	Armored With Anchor Lock and Cord Grip, Cord Grip Range .296-.625	10/50	190.13	164.78
5375	.....	Insulprene With Cord Grip, Cord Grip Range .296-.625	10/50	148.13	128.38
5366	5726	Rubber With Cord Grip, Cord Grip Range .296-.625	10/50	129.00	111.80

STRAIGHT BLADE 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS — SPECIFICATION GRADE 20 Amp., 250 Volts A.C. or D.C. For Air Conditioners, Heaters, Power Tools, Etc.



No. 5462

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
5462	5862	Brown Phenolic	10/50	\$271.13	\$234.98
5462-I	5862-I	Ivory Phenolic	10/50	281.63	244.08
5462-GRY	5862-GRY	Gray Phenolic	10/50	281.63	244.08
5463	5865	No. 5462 on 4" Alum. Box Cover	5/50	289.88	251.23
Single Outlets					
5461	5861	Brown Phenolic	10/50	195.38	169.33
5461-I	5861-I	Ivory Phenolic	10/50	205.50	178.10
5451	5851	Brown Phenolic, Side Wired	10/50	123.38	106.93
5451-I	5851-I	Ivory Phenolic, Side Wired	10/50	133.50	115.70
5484	5843	Short Mounting Strap, Mtg. Holes 1 1/8" Centers, Brown ..	10/50	140.25	121.55
5484-I	.....	Same as 5484 Except Ivory ..	10/50	149.25	129.35

STRAIGHT BLADE 3-WIRE GROUNDING CAPS AND CONNECTOR BODY 20 Amp., 250 Volts A.C. or D.C. For Air Conditioners, Heaters, Power Tools, Etc.



No. 5464



No. 5474

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Caps						
5464	5864	Armored With Cord Grip ....	.296-.625	10/50	\$173.63	\$150.48
5475	.....	Insulprene With Cord Grip	.296-.625	10/50	197.25	170.95
Connector Body						
5474	5869	Armored With Cord Grip ....	.296-.625	10/50	231.00	200.20

HUBBELL WIRING DEVICES

MIDGET "TWIST-LOCK" 2-WIRE CAPS AND CONNECTOR BODIES
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7465



No. 7464

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Midget Caps						
7462	7462	Without Cord Grip .....	.375	10/50	\$29.25	\$25.35
7477	7477	Without Cord Grip* .....	.375	10/50	35.63	30.88
7465	7465	With Cord Grip .....	.218-.312	10/50	39.00	33.80
7428	7428	With Cord Grip .....	.312-.500	10/50	39.00	33.80
7479	7479	With Cord Grip* .....	.218-.312	10/50	46.13	39.98
7429	7429	With Cord Grip* .....	.312-.500	10/50	46.13	39.98
Midget Connector Bodies						
7461	7461	Without Cord Grip .....	.375	10/50	58.13	50.38
7464	7464	With Cord Grip .....	.218-.312	10/50	70.50	61.10
7427	7427	With Cord Grip .....	.312-.500	10/50	71.63	62.08

*Polarized.

MIDGET "TWIST-LOCK" 2-WIRE FLANGED INLETS AND FLANGED OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7466



No. 7468

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Flanged Inlets						
7466	7466	Exposed Terminals		10/50	\$ 84.75	\$ 73.45
7467	7467	Exposed Terminals*		10/50	102.38	88.73
Flanged Outlets						
7468	7468	Exposed Terminals		10/50	102.38	88.73
7471	7471	Covered Terminals .....	.375	10/50	107.63	93.28
7472	7472	Covered Terminals With Cord Grip .....	.218-.312	10/50	118.13	102.38
7474	.....	Covered Terminals for Reversing Mtg. on Panels .	.375	10/50	116.25	100.75

*Polarized.

"TWIST-LOCK" 2-WIRE DUPLEX AND SINGLE OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7540



No. 7535

Cat. No. Hubbell	No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
7540	7540	Standard	10/50	\$145.88	\$126.43
7544	7544	On 4" Metal Box Cover	5/30	166.50	144.30
7538	7538	2 Feeds, 1 Return	10/50	166.50	144.30
7539	7539	2 Feeds, 2 Returns	10/50	166.50	144.30
7457	7457	On 4" Metal Cover, 2 Feeds, 1 Return ...	10/30	187.50	162.50
7458	7458	On 4" Metal Cover, 2 Feeds, 2 Returns ..	10/30	187.50	162.50
Single Outlets					
7535	7535	Standard	10/50	89.25	77.35
7537	7537	On 4" Metal Box Cover	5/30	111.38	96.53
7498	7498	With Short Mounting Strap	10/50	89.25	77.35

"TWIST-LOCK" 2-WIRE FLANGED INLETS AND FLANGED OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7523



No. 7526

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Flanged Inlets						
7523	7523	Exposed Terminals .....	.468	10/50	\$102.38	\$ 88.73
7524	.....	Exposed Terminals* .....	.468	10/50	123.00	106.60
Flanged Outlets						
7526	7526	Exposed Terminals		10/50	118.13	102.38
7528	7528	Covered Terminals With Cord Grip .....	.296-.562	10/50	134.25	116.35

*Polarized.

HUBBELL WIRING DEVICES

"TWIST-LOCK" 2-WIRE CAPS AND CONNECTOR BODIES
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Caps						
7542	7542	Armored With Cord Grip	.296-.562	10/50	\$ 71.63	\$ 62.08
7549	7542	Armored With Cord Grip	.406-.625	10/50	71.63	62.08
7588	.....	Armored With Cord Grip*	.296-.562	10/50	84.00	72.80
7589	.....	Armored With Cord Grip*	.406-.625	10/50	84.00	72.80
7642	7642	Armored W/Angle Cord Grip	.500-.625	10/50	105.00	91.00
7504	7504	Phenolic W/o Cord Grip	.375	10/50	54.00	46.80
7505	.....	Phenolic W/o Cord Grip*	.375	10/50	54.00	46.80
7697	7697	Phenolic With Cord Grip	.218-.312	10/50	61.88	53.63
7507	7507	Phenolic With Cord Grip	.296-.562	10/50	61.88	53.63
7698	.....	Phenolic With Cord Grip*	.218-.312	10/50	70.50	61.10
7508	.....	Phenolic With Cord Grip*	.296-.562	10/50	70.50	61.10
7545	7545	Rubber With Cord Grip	.296-.625	10/50	86.25	74.75
7547	7545	Rubber With Cord Grip*	.296-.625	10/50	105.00	91.00



No. 7542



No. 7696

Connector Bodies

7688	7688	Armored With Cord Grip	.296-.562	10/50	119.25	103.35
7689	7688	Armored With Cord Grip	.406-.625	10/50	119.25	103.35
7503	7503	Phenolic W/o Cord Grip	.375	10/50	80.63	69.88
7696	7696	Phenolic With Cord Grip	.218-.312	10/50	96.00	83.20
7506	7506	Phenolic With Cord Grip	.296-.562	10/50	96.00	83.20

*Polarized.

"TWIST-TITE" 2-WIRE DUPLEX AND SINGLE OUTLETS
15 Amp., 125 Volts A.C. or D.C.

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
9200	9200	Brown Phenolic	10/100	\$ 76.88	\$ 66.63
9200-I	9200-I	Ivory Phenolic	10/50	83.25	72.15
9224	.....	With Narrow Ears	10/100	76.88	66.63
9206	9206	On 4" Round Metal Box Cover	5/50	113.63	98.48
9216	.....	2 Feeds, 1 Return	10/100	127.13	110.18
9217	.....	2 Feeds, 2 Returns	10/100	127.13	110.18
Single Outlets					
9210	.....	Brown Phenolic	10/100	58.13	50.38
9213	.....	With Short Mounting Strap	10/50	59.63	51.68
9218	.....	With Short Mounting Strap	10/50	59.63	51.68



No. 9200



No. 9210

"TWIST-TITE" 2-WIRE CAP, FLANGED OUTLET AND CLUSTER
15 Amp., 125 Volts A.C. or D.C.

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
9208	Cap, Black Rubber With Cord Grip*	.296-.562	10/50	\$ 65.25	\$ 56.55
9219	Outlet, Nickel Plated Brass Flange		10/50	122.63	106.28
9225	Four Outlet Cluster With Cord Grip & Swivel Hook	.296-.562	2/10	357.75	310.05
9225-G	Same as 9225 Grounded	.296-.562	2/10	357.75	310.05

*Polarized.



No. 9208

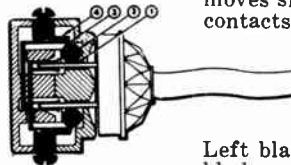


No. 9219

STRAIGHT BLADE 2-WIRE SAFETY-PLUS DUPLEX OUTLETS — SPECIFICATION GRADE
15 Amp., 125 Volts A.C. or D.C.

Hubbell	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
SP-49	Brown	10/100	\$ 99.75	\$ 86.45
SP-49-I	Ivory	10/50	107.63	93.28

The heart of the Hubbell SP-49 Safety-Plus is four insulated rollers, two of which have to be engaged simultaneously by standard cap blades in order to energize the unit. This outlet operates in a conventional manner, yet the rollers are located within the unit in such a way as to prevent activation with knife blades, wires, pins or other foreign objects.



Standard cap (1) operates rollers (2), moves silver plated shunts (3) against contacts (4), completing circuit.

Left blade completes circuit for right blade and vice versa, preventing foreign objects from completing circuit.



No. SP-49-I

HUBBELL WIRING DEVICES

**STRAIGHT BLADE 2-WIRE FLANGED INLETS AND FLANGED OUTLETS
15 Amp., 125 Volts A.C. or D.C.**



No. 4891



No. 7608

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Flanged Inlets						
4897	SRV	Top Wiring Terminals .....	.406x.312	10/50	\$107.63	\$ 93.28
4898	.....	Top Wiring Terminals* .....	.406x.312	10/50	96.00	83.20
4856	.....	Top Wiring Terminals With Cord Grip .....	.406-.625	10/50	131.63	114.08
4891	.....	Exposed Wiring Terminals		10/50	80.63	69.88
6823	RM	Surface Type, W/o Flange ...	.406x.312	10/50	43.13	37.38
Flanged Outlets						
7608	.....	Exposed Wiring Terminals ...		10/50	85.13	73.78
7609	.....	Covered Terminals .....	.406	10/50	102.38	88.73
7610	.....	Covered Terminals With Cord Grip .....	.296-.562	10/50	108.38	93.93
7332	.....	Covered Terminals, Black Composition .....	.406	10/50	140.25	121.55

*Polarized.

**"TWIST-LOCK" 2-WIRE SINGLE OUTLETS
20 Amp., 250 Volts A.C. or D.C.**



No. 7210

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
7210	7210	Black Porcelain	10/50	\$ 96.00	\$ 83.20
7210-B	7210-B	Black Phenolic	10/50	96.00	83.20
7217	7217	No. 7210 on 4" Metal Box Cover	5/30	120.75	104.65
7217-B	7217-B	No. 7210-B on 4" Metal Box Cover	5/30	120.75	104.65
7624	.....	Conduit Box Type, Porcelain, Mtg. Screw Holes 3/8" on Centers	10/50	101.63	88.08

**"TWIST-LOCK" 2-WIRE CAPS AND CONNECTOR BODIES
20 Amp., 250 Volts A.C. or D.C.**



No. 7102



No. 7101

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Armored Caps						
7102	7102	With Cord Grip .....	.296-.562	10/30	\$ 73.50	\$ 63.70
9102	9102	With Cord Grip* .....	.296-.562	10/30	84.38	73.13
7238	7102	With Cord Grip .....	.406-.625	10/30	73.50	63.70
9103	.....	With Cord Grip* .....	.406-.625	10/30	84.38	73.13
7228	7228	With Angle Cord Grip .....	.500-.625	10/30	100.50	87.10
3221	.....	Super Series W/Cord Grip ...	.296-.625	10/30	76.88	66.63
3222	.....	Super Series W/Cord Grip* ..	.296-.625	10/30	88.50	76.70
"Insulprene" Caps						
9770	7963	With Cord Grip .....	.296-.625	10/30	108.38	93.93
9771	7964	With Cord Grip* .....	.296-.625	10/30	124.88	108.23
Rubber Caps						
9763	9763	With Cord Grip .....	.296-.625	10/30	90.38	78.33
9764	9764	With Cord Grip* .....	.296-.625	10/30	107.25	92.95
Armored Connector Bodies						
7101	7101	With Cord Grip .....	.296-.562	10/30	121.88	105.63
7224	7101	With Cord Grip .....	.406-.625	10/30	121.88	105.63
3223	.....	Super Series W/Cord Grip ...	.296-.625	10/30	127.50	110.50
"Insulprene" Connector Body						
9768	7901	With Cord Grip .....	.296-.625	10/30	222.75	193.05

*Polarized.

HUBBELL WIRING DEVICES

MIDGET "TWIST-LOCK" 3-WIRE CAPS AND CONNECTOR BODIES
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7485



No. 7484

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Midget Caps						
7482	7482	Without Cord Grip .....	.500	10/50	\$ 84.75	\$ 73.45
7485	7485	With Cord Grip .....	.281-.421	10/50	92.63	80.28
Midget Connector Bodies						
7484	7484	With Cord Grip .....	.281-.421	10/50	133.50	115.70
7481	7481	Without Cord Grip .....	.500	10/50	125.63	108.88

MIDGET "TWIST-LOCK" 3-WIRE FLANGED INLETS AND FLANGED OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7486



No. 7487

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Flanged Inlets						
7486	7486	Exposed Wiring Terminals		10/50	\$118.13	\$102.38
7486-G	7486-G	Same as 7486 Grounded		10/50	118.13	102.38
Flanged Outlets						
7487	7487	Exposed Wiring Terminals		10/50	144.00	124.80
7487-G	7487-G	Same as 7487 Grounded		10/50	144.00	124.80
7488	7488	Covered Terminals Without Cord Grip .....	.500	10/50	159.38	138.13
7488-G	7488-G	Same as 7488 Grounded .....	.500	10/50	159.38	138.13
7489	7489	Covered Terminals With Cord Grip .....	.281-.421	10/50	173.63	150.48
7489-G	7489-G	Same as 7489 Grounded .....	.281-.421	10/50	173.63	150.48

"TWIST-LOCK" 3-WIRE DUPLEX AND SINGLE OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7580



No. 7582

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Duplex Outlets					
7580	7580	Standard	10/50	\$273.00	\$236.60
7581	7581	On 4" Metal Box Cover	5/30	304.13	263.58
7785	7785	2 Feeds, 1 Return Side Wired Only	5/30	294.00	254.80
7786	7786	2 Feeds, 2 Returns Side Wired Only	5/30	294.00	254.80
Single Outlets					
7582	7582	Standard	10/50	187.50	162.50
7583	7583	On 3 1/4" Metal Box Cover	10/30	202.13	175.18
7584	7584	On 4" Metal Box Cover	5/30	217.13	188.18
7585	.....	Short Strap, 1 1/8" Centers	10/50	187.50	162.50
7586	7586	With Short Strap	10/50	187.50	162.50

Note: All above available grounded; add suffix "G" to catalog number.

"TWIST-LOCK" 3-WIRE CAPS AND CONNECTOR BODIES
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 9782



No. 9780

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Caps						
7572	7572	Armored With Cord Grip .....	.296-.625	10/50	\$109.88	\$ 95.23
7554	7554	Phenolic With Cord Grip .....	.296-.625	10/50	100.50	87.10
9782	7657	"Insulprene" W/Cord Grip .....	.296-.625	10/50	158.25	137.15
7567	7567	Rubber With Cord Grip .....	.296-.625	10/50	132.38	114.73
Connector Bodies						
7555	7555	Phenolic With Cord Grip .....	.296-.625	10/50	173.63	150.48
7564	.....	Rubber Casing for Use With 755E (Shock Absorber)		10/30	58.13	50.38
9780	7565	"Insulprene" W/Cord Grip .....	.296-.625	10/50	207.38	179.73

Note: All above available grounded; add suffix "G" to catalog number.

HUBBELL WIRING DEVICES

"TWIST-LOCK" 3-WIRE FLANGED INLETS AND FLANGED OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7556



No. 7557

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
7556	7556	Flanged Inlet	10/50	\$144.00	\$124.80
7556-G	7556-G	Same as 7556 Grounded	10/50	144.00	124.80
7557	7557	Flanged Outlet	10/50	159.38	138.13
7557-G	7557-G	Same as 7557 Grounded	10/50	159.38	138.13

STRAIGHT BLADE 3-WIRE DUPLEX AND SINGLE OUTLETS
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7051



No. 6051

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Duplex Outlets					
7051	7118	Black Phenolic	10/30	\$244.50	\$211.90
7051-I	7118-I	Ivory Phenolic	10/30	256.88	222.63
7208	7119	On 4" Round Metal Box Cover	5/30	268.13	232.38
Single Outlets					
6051	6051	Black Phenolic	10/50	175.88	152.43
6051-I	6051-I	Ivory Phenolic	10/50	187.13	162.18
7215	7215	3 Binding Screws, Short Strap	10/30	136.88	118.63

Note: All above available grounded; add suffix "G" to catalog number.

STRAIGHT BLADE 3-WIRE CAPS AND CONNECTOR BODIES
10 Amp., 250 Volts; 15 Amp., 125 Volts A.C. or D.C.



No. 7055



No. 7082

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
Armored Caps						
†7055	7658	With Cord Grip .....	.296-.562	10/50	\$ 90.00	\$ 78.00
†7309	7658	With Cord Grip .....	.406-.625	10/50	90.00	78.00
†7368	7368	With Angle Cord Grip .....	.500-.625	10/50	118.13	102.38
Phenolic Caps						
7252	.....	Without Cord Grip .....	.250	10/50	57.38	49.73
6149	SA	Without Cord Grip .....	.437	10/50	57.38	49.73
Rubber Caps						
†9750	7662	With Cord Grip .....	.296-.625	10/50	90.00	78.00
9975	4470	Without Cord Grip .....	.312-.468	10/50	59.63	51.68
9976	4471	Without Cord Grip .....	.625	10/50	59.63	51.68
9413	4474	With Cord Grip .....	.312-.468	10/50	71.25	61.75
9414	4475	With Cord Grip .....	.625	10/50	71.25	61.75
Armored Connector Bodies						
†7082	.....	With Cord Grip .....	.296-.562	10/50	150.00	130.00
7308	.....	With Cord Grip .....	.406-.625	10/50	150.00	130.00
Composition Connector Body						
6409	.....	Without Cord Grip .....	.437	10/50	110.63	95.88
Rubber Connector Bodies						
9409	.....	Without Cord Grip .....	.312-.468	10/50	111.75	96.85
9411	.....	Without Cord Grip .....	.625	10/50	111.75	96.85
9410	4472	With Cord Grip .....	.312-.468	10/50	125.63	108.88
9412	4473	With Cord Grip .....	.625	10/50	125.63	108.88

†Available grounded; add suffix "G" to catalog number.

"TWIST-LOCK" 3-WIRE SINGLE OUTLETS
20 Amp., 125/250 Volts A.C. or D.C.



No. 7310



No. 7310-B

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Ctn.	Per 100 Std. Pkg.
7310	7310	Black Porcelain	10/30	\$219.38	\$190.13
7310-B	7310-B	Black Phenolic	10/30	219.38	190.13
7517	7517	No. 7310 on 4" Metal Box Cover	5/20	242.63	210.28
7517-B	7517-B	No. 7310-B on 4" Metal Box Cover	5/20	242.63	210.28

Note: All above available grounded; add suffix "G" to catalog number.

OUTLET PLATES

7418	7418	Cast Aluminum With Lift Cover	10/20	194.63	168.68
7419	.....	Cast Aluminum Without Lift Cover	10/20	132.75	115.05
7502	7502	.060" Brass, 3 Gang for Two 7310	5/10	361.50	313.30

HUBBELL WIRING DEVICES

"TWIST-LOCK" 3-WIRE CAPS AND CONNECTOR BODIES
20 Amp., 125/250 Volts A.C. or D.C.



No. 7311



No. 3321



No. 7313



No. 3323

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Armored Caps						
	7311	7311 With Cord Grip .....	.437-.750	10/30	\$157.50	\$136.50
	7354	7354 With Angle Cord Grip .....	.500-.625	10/30	187.50	162.50
	3321	..... Super Series W/Cord Grip .....	.437-.750	10/30	165.00	143.00
"Insulprene" Caps						
	9960	7965 With Cord Grip .....	.437-.750	10/30	191.63	166.08
Rubber Cap						
	9965	9965 With Cord Grip .....	.437-.750	10/30	166.13	143.98
Fusible Caps						
	7670	..... With Rubber Cord Grip .....	.360-.484	10/30	440.25	381.55
	7671	..... With Rubber Cord Grip .....	.484-.609	10/30	440.25	381.55
Armored Connector Bodies						
	7313	7313 With Cord Grip .....	.437-.750	10/30	242.63	210.28
	3323	..... Super Series W/Cord Grip .....	.437-.750	10/30	254.25	220.35
"Insulprene" Connector Body						
	9966	7513 With Cord Grip .....	.437-.750	10/30	276.75	239.85

Note: All above available grounded; add suffix "G" to catalog number.

"TWIST-LOCK" 3-WIRE FLANGED INLETS AND FLANGED OUTLETS
20 Amp., 125/250 Volts A.C. or D.C.



No. 7327



No. 7328

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Flanged Inlets					
	7327	7327 Concealed Wiring	10/30	\$186.75	\$161.85
	3325	..... Super Series, Exposed Wiring, for Use With Super Series Connector Bodies 3323 or 3323-G only	10/30	174.38	151.13
Flanged Outlets					
	7328	..... Covered Terminals	10/30	286.88	248.63
	3326	3326 Super Series, Exposed Terminals	10/30	301.13	260.98

"HUBBELLOCK" 3-WIRE OUTLETS AND INLETS
20 Amp., 125 Volts A.C. or D.C.
10 Amp., 250 Volts D.C.; 460 Volts A.C.



No. 23000



No. 23020

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Outlets					
	23000	23000 Black Phenolic	5/20	\$404.63	\$350.68
	23000-G	23000-G Same as 23000 Grounded	5/20	404.63	350.68
	23007	23007 Cast Metal Plate With Lift Cover	5/20	194.63	168.68
Inlets					
	23020	..... Flanged	5/20	338.63	293.48
	23015	23015 Mtd. on Cast Metal Lift Cover Plate	5/20	533.63	462.48

"HUBBELLOCK" 3-WIRE CAPS AND CONNECTOR BODIES
20 Amp., 125 Volts A.C. or D.C.
10 Amp., 250 Volts D.C.; 460 Volts A.C.



No. 23005



No. 23002

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Caps						
	23005	23005 With Cord Grip .....	.296-.562	5/20	\$364.13	\$315.58
	23006	23005 With Cord Grip .....	.406-.625	5/20	364.13	315.58
	23011	23011 With Rubber Cord Grip ..	.360-.484	5/20	364.13	315.58
	23004	23004 With Rubber Cord Grip ..	.484-.609	5/20	364.13	315.58
	23016	23016 With 1/2" Fem. Pipe Thread		5/20	419.63	363.68
	23026	..... Fusible With Cord Pipe ..	.296-.562	5/20	1891.50	1639.30
	23027	..... Fusible With Cord Grip ..	.406-.625	5/20	1892.25	1639.95
	23028	..... Fusible With Rubber Cord Grip .....	.360-.484	5/20	1906.13	1651.98
	23025	..... Fusible With Rubber Cord Grip .....	.484-.609	5/20	1904.63	1650.68
Connector Bodies						
	23002	23002 With Cord Grip .....	.296-.562	5/20	514.50	445.90
	23003	23002 With Cord Grip .....	.406-.625	5/20	514.90	445.90
	23010	23010 With Rubber Cord Grip ..	.360-.484	5/20	514.50	445.90
	23001	23001 With Rubber Cord Grip ..	.484-.609	5/20	514.50	445.90
	23009	23009 With 1/2" Fem. Pipe Thread		5/20	536.63	465.08

Note: All above available grounded; add suffix "G" to catalog number.

HUBBELL WIRING DEVICES

SUPER "TWIST-LOCK" 3-WIRE OUTLET, CAP AND CONNECTOR BODY
30 Amp., 250 Volts A.C. or D.C.



No. 3330

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
3330	3330	Outlet, Black Porcelain, Back Wired		10/30	\$299.63	\$259.68
3331	3331	Cap, Armored With Cord Grip .....	.625-1.000	10/30	244.50	211.90
3333	3333	Connector Body, Armored With Cord Grip .....	.625-1.000	10/30	479.63	415.68



No. 3331



No. 3333

OUTLET PLATES

3391	.....	040" Brass, Single Gang		2/10	\$113.63	\$ 98.48
3392	.....	Stainless Steel, Single Gang		2/10	63.75	55.25
3393	7420	Weatherproof Cast Alum. Lift Cover Type for 3330, Fits FS & FD Boxes		2/10	319.13	276.58
3394	.....	Cast Aluminum With Lift Cover for 3330, Fits FS & FD Boxes		2/10	257.25	222.95
3395	.....	4" Square Pressed Steel for Universal Box 52151		2/10	52.88	45.83

STRAIGHT BLADE 3-WIRE SHALLOW FLUSH OUTLETS, CAPS AND CONNECTOR BODY
30 Amp., 250 Volts A.C. or D.C.



No. 9350

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
9350	9344	Brown Phenolic		2/10	\$165.75	\$143.65
9350-G	9344-G	Same as 9350 Grounded		2/10	165.75	143.65
9359	9344-FS	No. 9350 Mounted on Cast Alum. Weatherproof Lift Cover Plate 9420		10/20	469.88	407.23



No. 9337



No. 9341

Caps						
9337	9337	Armored With Cord Grip .....	.625-1.000	2/10	222.00	192.40
9338	9338	Armored With Cord Grip, Grounded .....	.625-1.000	2/10	242.63	210.28
9332	9332	Black Phenolic With Cord Grip & Ground Contacts .....	.750	2/10	256.13	221.89
Connector Body						
9341	9341	Black Composition .....	.625-1.000	1/5	537.38	465.73

"TWIST-LOCK" 3-WIRE OUTLETS AND PLATES
50 Amp., 250 Volts D.C.; 50 Amp., 600 Volts A.C.



No. 3770

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Outlets					
3770	.....	Ungrounded	2/5	\$576.38	\$499.53
3771	.....	Grounded (Grdg. Terminal Supplied)	2/5	576.38	499.53
Plates					
7382	7382	Cast Aluminum With Lift Cover	2/5	286.50	248.30
7383	7383	Cast Aluminum Without Lift Cover	2/5	228.38	197.93

"TWIST-LOCK" 3-WIRE CAPS AND CONNECTOR BODIES
50 Amp., 250 Volts D.C.; 50 Amp., 600 Volts A.C.



No. 3761



No. 3760

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Caps						
3761	With Cord Grip .....	.437-1.140	2/5	\$576.38	\$499.53
3763	With Cord Grip Grounded to Casing .....	.437-1.140	2/5	576.38	499.53
Connector Bodies						
3760	With Cord Grip .....	.437-1.140	2/5	718.88	623.03
3762	With Cord Grip Grounded to Casing .....	.437-1.140	2/5	718.88	623.03

HUBBELL WIRING DEVICES

STRAIGHT BLADE 3-WIRE SHALLOW FLUSH OUTLETS
50 Amp., 250 Volts A.C. or D.C.



No. 7962

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
7962	7985	Black Phenolic	2/10	\$175.13	\$151.78
7962-G	7985-G	Same as 7962 Grounded	2/10	175.13	151.78
7955	7985-FS	No. 7962 Mounted on Cast Aluminum W/Proof Lift Cover Plate 9420	10/20	479.25	415.35

MIDGET "TWIST-LOCK" 3-WIRE GROUNDING CAPS AND CONNECTOR BODIES
15 Amp., 125 Volts A.C. or D.C.



No. 7594



No. 7593

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Midget Caps						
7592	6482	Without Cord Grip .....	.500	10/50	\$113.25	\$ 98.15
7594	6485	With Cord Grip .....	.281-.421	10/50	121.13	104.98
Midget Connector Bodies						
7591	6481	Without Cord Grip .....	.500	10/50	154.88	134.23
7593	6484	With Cord Grip .....	.281-.421	10/50	162.75	141.05

MIDGET "TWIST-LOCK" 3-WIRE GROUNDING FLANGED INLETS AND FLANGED OUTLETS
15 Amp., 125 Volts A.C. or D.C.



No. 7595



No. 7596

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Flanged Inlet						
7595	6486	Exposed Terminals		10/50	\$147.38	\$127.73
Flanged Outlets						
7596	6487	Exposed Terminals		10/50	173.25	150.15
7597	6488	Covered Terminals W/o Corc Grip .....	.500	10/50	188.25	163.15
7598	6489	Covered Terminals With Corc Grip .....	.281-.421	10/50	202.50	175.50

"TWIST-LOCK" 3-WIRE GROUNDING DUPLEX AND SINGLE OUTLETS
15 Amp., 125 Volts A.C. or D.C.



No. 4700



No. 4710

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Duplex Outlets					
4700	4700	Brown for Back or Side Wiring	10/50	\$259.88	\$225.23
4700-I	4700-I	Ivory for Back or Side Wiring	10/50	268.50	232.70
4701	4701	On 4" Metal Box Cover for Back or Side Wiring	5/30	289.50	250.90
4702	4702	2 Feeds, 1 Return, for Side Wiring	10/50	280.13	242.78
4703	4703	2 Feeds, 2 Returns, for Side Wiring ..	10/50	280.13	242.78
Single Outlet					
4710	4710	For Side Wiring Only	10/50	173.25	150.15

"TWIST-LOCK" 3-WIRE GROUNDING CAPS AND CONNECTOR BODY
15 Amp., 125 Volts A.C. or D.C.



No. 4726



No. 4730

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
Caps						
4726	4726	Armored With Cord Grip ....	.296-.625	10/50	\$104.25	\$ 90.35
4723	4723	Phenolic With Cord Grip ..	.296-.625	10/50	96.00	83.20
4720	4720	Rubber With Cord Grip ....	.296-.625	10/50	126.00	109.20
Connector Body						
4730	4730	Phenolic With Cord Grip ..	.296-.625	10/50	165.38	143.33

"TWIST-LOCK" 3-WIRE GROUNDING FLANGED INLET AND FLANGED OUTLET
15 Amp., 125 Volts A.C. or D.C.



No. 4716



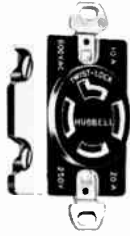
No. 4715

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
4716	4716	Flanged Inlet	10/50	\$147.38	\$127.73
4715	4715	Flanged Outlet	10/50	190.50	165.10

HUBBELL WIRING DEVICES

"TWIST-LOCK" 4-WIRE SINGLE OUTLETS

20 Amp., 250 Volts A.C. or D.C.; 10 Amp., 600 Volts A.C.



No. 7410



No. 7410-B

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
7410	7410	Black Porcelain	10/20	\$274.13	\$237.58
7410-B	7410-B	Black Phenolic	10/20	274.13	237.58
7417	7417	No. 7410 on 4" Metal Box Cover	5/15	289.13	250.58
7417-B	7417-B	No. 7410-B on 4" Metal Box Cover	5/15	289.13	250.58

Note: All above available grounded; add suffix "G" to catalog number.

OUTLET PLATES

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
7421	7421	.060" Brass, Single Gang	10/20	111.00	96.20
94111	8346	.040" Brass, Single Gang	10/80	65.25	56.55
7422	7422	.060" Brass, for Two 7410 Outlets	5/10	316.13	273.98
93111	.....	Type 302 Super S/S, Single Gang	2/10	64.13	55.58
97111	8345	Type 430 S/S, Single Gang	10/100	40.50	35.10
91111	91111	Brown Phenolic, Single Gang	10/30	36.75	31.85
92111	92111	Ivory Phenolic, Single Gang	10/30	42.38	36.73
7320	.....	Cast Aluminum Without Lift Cover ..	2/10	257.25	222.95

"TWIST-LOCK" 4-WIRE CAPS AND CONNECTOR BODIES

20 Amp., 250 Volts A.C. or D.C.; 10 Amp., 600 Volts A.C.



No. 7411



No. 7413

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Caps						
7411	7411	Armored With Cord Grip ..	.437-.750	10/20	\$219.38	\$190.13
7426	7426	Armored W/Angle Cord Grip .....	.500-.625	10/20	242.63	210.28
3421	.....	Super Series, Armored With Cord Grip .....	.437-.750	10/20	229.50	198.90
Connector Bodies						
7413	7413	Armored With Cord Grip ..	.437-.750	10/20	304.13	263.58
3423	.....	Super Series, Armored With Cord Grip .....	.437-.750	10/20	319.13	276.58
9968	7613	Insulprene W/Cord Grip ....	.437-.750	10/20	319.13	276.58

Note: All above available grounded; add suffix "G" to catalog number.

"TWIST-LOCK" 4-WIRE FLANGED INLETS AND FLANGED OUTLETS

20 Amp., 250 Volts A.C. or D.C.; 10 Amp., 600 Volts A.C.



No. 7408



No. 7409

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Flanged Inlets					
7408	7408	Concealed Wiring	10/20	\$246.00	\$213.20
7449	Rubber Gasket for Weatherproofing 7408 and 7408-G	10/20	15.00	13.00
3425	Super Series, Exposed Wiring (use 3423 & 3423-G Connector Bodies)	10/20	258.38	233.93
Flanged Outlets					
7409	Covered Terminals	10/20	331.50	287.30
3426	Super Series, Exposed Terminals	10/20	348.00	301.60

Note: All above available grounded; add suffix "G" to catalog number.

STRAIGHT BLADE 4-WIRE OUTLETS, CAPS AND CONNECTOR BODY

20 Amp., 250 Volts A.C. or D.C.



No. 7250



No. 7251



No. 7351

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Outlets						
7250	7250	Black Phenolic		10/20	\$242.63	\$210.28
7279	7279	No. 7250 on 4" Metal Cover		5/20	254.63	220.68
Caps						
7251	7251	Armored With Cord Grip ....	.437-.750	10/20	187.13	162.18
9951	7249	Rubber With Cord Grip ....	.437-.750	10/20	187.13	162.18
Connector Body						
7351	7351	Armored With Cord Grip ....	.437-.750	10/20	292.50	253.50

Note: All above available grounded; add suffix "G" to catalog number.

HUBBELL WIRING DEVICES

SUPER "TWIST-LOCK" 4-WIRE OUTLET, CAP AND CONNECTOR BODY
30 Amp., 600 Volts A.C.; 30 Amp., 250 Volts A.C. or D.C.

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
	3430	Outlet, Black Melamine Face, Phenolic Base		10/20	\$415.50	\$360.10
	3431	Cap, Armored W/Cord Grip	.625-1.000	10/20	309.00	267.80
	3433	Connector Body, Armored With Cord Grip	.625-1.000	10/20	666.75	577.85

Note: All above available grounded; add suffix "G" to catalog number.

OUTLET PLATES

3391	.....	.040" Brass, Single Gang		2/10	113.63	98.48
3392	7421-C	Stainless Steel, Single Gang		2/10	63.75	55.25
3393	7420-A	Cast Aluminum With Lift Cover, Fits FS and FD Boxes		2/10	319.13	276.58
3394	.....	Cast Aluminum Without Lift Cover, Fits FS and FD Boxes		2/10	257.25	222.95
3395	.....	4" Square Pressed Steel for Universal Box 52151		2/10	52.88	45.83



No. 3430



No. 3431



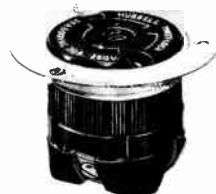
No. 3433

SUPER "TWIST-LOCK" 4-WIRE FLANGED INLETS AND FLANGED OUTLETS
30 Amp., 600 Volts A.C.; 30 Amp., 250 Volts A.C. or D.C.

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Flanged Inlets					
	3434	Exposed Wiring	10/20	\$393.75	\$341.25
	3434-G	Same as 3434 Grounded	10/20	393.75	341.25
Flanged Outlets					
	3435	Exposed Wiring	10/20	427.13	370.18
	3435-G	Same as 3435 Grounded	10/20	427.13	370.18



No. 3434



No. 3435

"HUBBELLOCK" 4-WIRE OUTLETS AND PLATES*
30 Amp., 600 Volts A.C.; 20 Amp., 250 Volts D.C.

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
	20403	Outlet, Black Phenolic	2/10	\$625.13	\$541.78
	20416	Cast Metal Plate With Lift Cover	2/10	194.63	168.68
	20417	Cast Metal Plate Without Lift Cover	2/10	132.75	115.05

*Grounded devices; for Not Grounded units, add suffix "NG" to catalog number.



No. 20403

"HUBBELLOCK" 4-WIRE INLETS*

30 Amp., 600 Volts A.C.; 20 Amp., 250 Volts D.C.

Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
	20418	Inlet for FS and FD Boxes	2/10	\$499.50	\$432.90
	20420	Inlet for 3 1/4" Outlet Boxes	2/10	499.50	432.90

*Grounded devices; for Not Grounded units, add suffix "NG" to catalog number.



No. 20418



No. 20420

"HUBBELLOCK" 4-WIRE CAPS AND CONNECTOR BODIES*

30 Amp., 600 Volts A.C.; 20 Amp., 250 Volts D.C.

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Caps With Cord Grips						
	20415	With Metal Cord Grip	.400- .750	2/10	\$477.38	\$413.73
	21415	W/Comb. Metal & Rubber	.390- .562	2/10	525.00	455.00
	21426	W/Comb. Metal & Rubber	.500- .750	2/10	525.00	455.00
	21419	W/Comb. Metal & Rubber	.687-1.000	2/10	549.75	476.45
Caps With Pipe Threads						
	21435	With 1/2" Female		2/10	499.50	432.90
	21436	With 3/4" Female		2/10	520.13	450.78
Fusible Caps With Cord Grips						
	20421	With Metal Cord Grip	.400- .750	2/10	1291.88	1119.63
	21421	W/Comb. Metal & Rubber	.390- .562	2/10	1291.88	1119.63
	21432	W/Comb. Metal & Rubber	.500- .750	2/10	1291.88	1119.63
	21422	W/Comb. Metal & Rubber	.687-1.000	2/10	1317.38	1141.73
Connector Bodies With Cord Grips						
	20414	With Metal Cord Grip	.400- .750	2/10	714.38	619.13
	21414	W/Comb. Metal & Rubber	.390- .562	2/10	712.88	617.83
	21427	W/Comb. Metal & Rubber	.500- .750	2/10	712.88	617.83
	21418	W/Comb. Metal & Rubber	.687-1.000	2/10	734.63	636.68
Connector Bodies With Pipe Threads						
	21433	With 1/2" Female		2/10	734.63	636.68
	21434	With 3/4" Female		2/10	755.63	654.88

*Grounded devices; for Not Grounded units, add suffix "NG" to catalog number.



No. 20415



No. 20414

HUBBELL WIRING DEVICES

"TWIST-LOCK" 4-WIRE OUTLET, CAP AND CONNECTOR BODY
50 Amp., 250 Volts D.C.; 50 Amp., 600 Volts A.C.
With Equipment Ground



Hubbell Cat. No.	A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
3769		Outlet, Fits FS & FD Boxes		2/5	\$616.13	\$533.98
3765		Cap With Cord Grip	.437-1.140	2/5	613.13	531.38
3764		Connector Body With Cord Grip	.437-1.140	2/5	759.38	658.13

OUTLET PLATES

7382	7382	Cast Aluminum With Cord Grip		2/5	286.50	248.30
7383	7383	Cast Aluminum Without Cord Grip		2/5	228.38	197.93

"TWIST-LOCK" 4-WIRE FLANGED INLETS
50 Amp., 250 Volts D.C.; 50 Amp., 600 Volts A.C.
With Equipment Ground



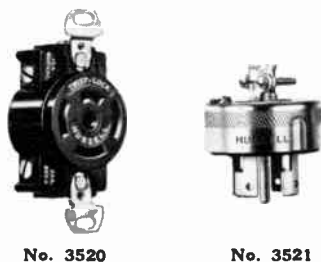
Hubbell Cat. No.	A-H&H	Description	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
3775		Inlet Without Lift Cover	1/5	\$606.00	\$525.20
3768		Inlet With Lift Cover	2/5	730.13	632.78

STRAIGHT BLADE GROUNDING 4-WIRE OUTLETS AND CAPS
30, 50, and 60 Amp., 125/250 Volts



Hubbell Cat. No.	A-H&H	Description	Amps.	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
Outlets							
9430	5744	Black Porcelain	30		2/5	\$481.88	\$417.63
9450	5754	Black Porcelain	50		2/5	569.63	493.68
9460	9460	Black Porcelain	60		2/5	657.00	569.40
Caps							
9431	5746	Armored With Cord Grip	30	.750-1.250	2/5	377.63	327.28
9432	5732	With Angle Cord Grip	30	.750-1.250	2/5	427.88	370.83
9451	5745	Armored With Cord Grip	50	.750-1.250	2/5	465.38	403.33
9452	5752	With Angle Cord Grip	50	.750-1.250	2/5	515.25	446.55
9461	9461	Armored With Cord Grip	60	.750-1.250	2/5	559.13	484.58
9462	9462	With Angle Cord Grip	60	.750-1.250	2/5	609.00	527.80

"TWIST-LOCK" 5-WIRE OUTLET, CAP AND CONNECTOR BODY
20 Amp., 250 Volts A.C. or D.C.; 10 Amp., 600 Volts A.C.



Hubbell Cat. No.	A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
3520	3520	Outlet, Black Phenolic		10/20	\$327.75	\$284.05
3521	3521	Cap, Super Series Armored With Cord Grip	.437-.750	10/20	294.38	255.13
3523	3523	Connector Body, Super Series Armored With Cord Grip	.437-.750	10/20	534.75	463.45

OUTLET PLATES

94111	8346	.040" Brass, Single Gang		10/80	65.25	56.55
7421	7421	.060" Brass, Single Gang		10/20	111.00	96.20
7422	7422	.060" Brass, 3-Gang for Two		5/10	316.13	273.98
91111	91111	Brown Phenolic, Single Gang		10/30	36.75	31.85
92111	92111	Ivory Phenolic, Single Gang		10/30	42.38	36.73
97111	7421-C	Stainless Steel, Single Gang		10/100	40.50	35.10
7320		Cast Aluminum Without Lift Cover		2/10	257.25	222.95









"TWIST-LOCK" 5-WIRE FLANGED INLET AND FLANGED OUTLET
20 Amp., 250 Volts A.C. or D.C.; 10 Amp., 600 Volts A.C.

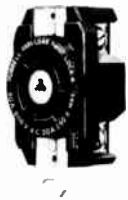


Hubbell Cat. No.	A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per Ctn.	100 Std. Pkg.
3524	3524	Inlet With Cord Grip	.437-.750	10/30	\$395.63	\$342.88
3525	3525	Outlet With Cord Grip	.437-.750	10/25	723.38	626.93

HUBBELL WIRING DEVICES

VARILOAD "TWIST-LOCK" 5-WIRE OUTLETS, CAPS AND CONNECTOR BODIES
30 Amp., 250 Volts A.C. or D.C.; 30 Amp., 600 Volts A.C.

HUBBELL CATALOG NUMBERS AND CONFIGURATIONS								Ctn./Pkg.	Per 100	
								Ctn.	Std. Pkg.	
										
"Twist-Lock" Variload Outlets										
45105	45205	45305	45405	45505	45605	45705	45805	2/10	\$521.25	\$451.75
Super "Twist-Lock" Variload Caps — Cord Grip Range: .625-1.000										
45115	45215	45315	45415	45515	45615	45715	45815	2/10	416.25	360.75
Super "Twist-Lock" Variload Connector Bodies — Cord Grip Range: .625-1.000										
45135	45235	45335	45435	45535	45635	45735	45835	10/20	717.75	622.05
Super "Twist-Lock" Variload Flanged Inlets — Cord Grip Range: .625-1.000										
45185	45285	45385	45485	45585	45685	45785	45885	10/30	517.50	448.50
Super "Twist-Lock" Variload Flanged Outlets — Cord Grip Range: .625-1.000										
45195	45295	45395	45495	45595	45695	45795	45895	10/30	844.50	731.90
Super "Twist-Lock" Variload Inlets With Cast Aluminum Weatherproof Lift Cover Plate — Cord Grip Range: .625-1.000										
45100	45200	45300	45400	45500	45600	45700	45800	10/20	858.00	743.60



No. 45805



No. 45815

OUTLET PLATES

Cat. No. Hubbell	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
3391	.040" Brass, Single Gang	2/10	\$113.63	\$ 98.48
3392	Stainless Steel, Single Gang	2/10	63.75	55.25
3393	Cast Aluminum With Lift Cover, Fits FS and FD Boxes	2/10	319.13	276.58
3394	Cast Aluminum Without Lift Cover Fits FS and FD Boxes	2/10	257.25	222.95
3395	Pressed Steel 4" Square for Universal Box 52151	2/10	52.88	45.83

"HUBBELLOCK" 5-WIRE OUTLETS, INLETS, CAP AND CONNECTOR BODY
30 Amp., 600 Volts A.C.; 20 Amp., 250 Volts D.C.



No. 25403

Cat. No. Hubbell	No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100	
					Ctn.	Std. Pkg.
Outlets						
25403	25403	With Metal Housing, Fits FS & FD Boxes		2/10	\$1242.75	\$1077.05
25406	.....	Flanged W/Cord Grip .....	.625-1.000	2/10	1220.25	1057.55
25250	25250	Spec. Purpose W/Alum. Housing & Weatherproof Lift Cover		2/10	1466.63	1271.08
Inlets						
25416	.....	Flanged W/Cord Grip .....	.625-1.000	2/10	1082.25	937.95
25418	25418	Spec. Purpose With Metal Housing		2/10	1150.13	996.78
Cap						
25415	25415	Armored With Cord Grip .....	.625-1.000	2/10	828.38	717.93
Connector Body						
25414	25414	Armored With Cord Grip .....	.625-1.000	2/10	966.38	837.53



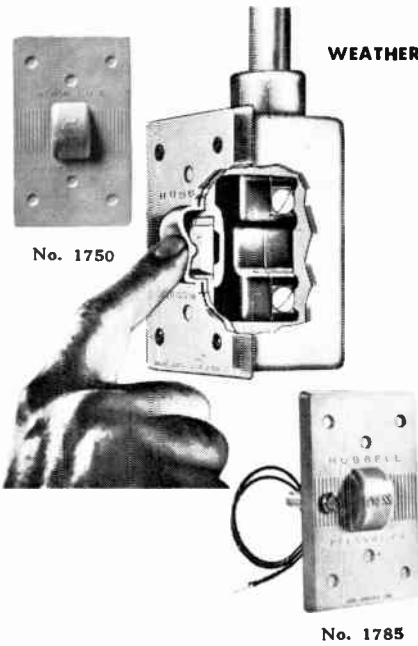
No. 25415



No. 25414

HUBBELL WIRING DEVICES

WEATHERPROOF "PRESSWITCH" PLATES AND SWITCH-PLATE COMBINATIONS
15 and 20 Amp., 120/277 Volts A.C. Only



Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
"Presswitch" Plates					
1750	2881-G	Gray Hypalon Presswitch Plate	2/10	\$207.00	\$179.40
1785	2882-G	Plate W/125 Volt Red Pilot Light	2/10	317.25	274.95
1786	2885-G	Plate W/250 Volt Red Pilot Light	2/10	328.88	285.03
15 Amp. "Presswitch" Switch and Plate Combinations					
1751	.....	1750 Plate W/Sgl. Pole Switch	2/10	318.38	275.93
1752	.....	1750 Plate W/Dbl. Pole Switch	2/10	393.75	341.25
1753	.....	1750 Plate W/3-Way Switch	2/10	370.88	321.43
1754	.....	1750 Plate W/4-Way Switch	2/10	624.38	541.13
20 Amp. "Presswitch" Switch and Plate Combinations					
1781	.....	1750 Plate W/Sgl. Pole Switch	2/10	384.75	333.45
1782	.....	1750 Plate W/Dbl. Pole Switch	2/10	419.63	363.68
1783	.....	1750 Plate W/3-Way Switch	2/10	411.75	356.85
1784	.....	1750 Plate W/4-Way Switch	2/10	661.88	573.63

PLUG-IN ADAPTERS



Hubbell	Cat. No. A-H&H	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
5273	5273	Male 2- Wire Parallel, Female 3-Wire 15A 125V Grounding Straight Slot, Black Composition, No Lead	10/50	\$ 77.25	\$ 66.95
5273-L	5273-L	Same as 5273 With 3 1/2" Lead	10/50	83.25	72.15
6273-L	.....	Male 2-Wire Parallel Polarized, Female 3-Wire 15A 125V Grounding Slot, 3 1/2" Lead, Black Composition	10/50	83.25	72.15
4273-L	.....	Male 2-Wire Parallel, Female 3-Wire 15A 125V Grounding Straight Slot, 3 1/2" Lead, Brown Phenolic	10/100	26.25	22.75
5289	5295	Male 3-Wire Crowfoot, Female 3-Wire 15A 125V Grounding Straight Blade	10/50	222.00	192.40
7644	.....	Male 2-Wire Parallel, Female 3-Wire 10A "Twist-Lock" Slots, Phenolic and Composition, 3 1/2" Lead	10/50	269.25	233.35
5285	.....	Male 3-Wire 15A 125V Straight Blade Grounding, Female 3-Wire 10A Straight Polarized Slots	10/50	183.38	158.93
5291	.....	Duplex, Male 2-Wire Parallel, Female 3-Wire 15A 125V Grounding Straight Slots, Brown Phenolic	10/50	180.75	156.65
5291-I	.....	Same as 5291, Ivorine Phenolic	10/50	193.50	167.70
9052	7939	Male 2-Wire Parallel, Female 3-Wire 10A Straight Polarized Slots, Black Composition, No Lead	10/30	84.38	73.13
9052-L	7939-L	Same as 9052 With 3 1/2" Lead	10/30	89.25	77.35
7052	.....	Male 2-Wire Tandem, Female 3-Wire 10A Straight Polarized Slots, Black Composition, No Lead	10/30	83.25	72.15
7052-L	7052-L	Same as 7052 With 3 1/2" Lead	10/30	89.25	77.35

CIR-CHEK® OPEN CIRCUIT DETECTOR

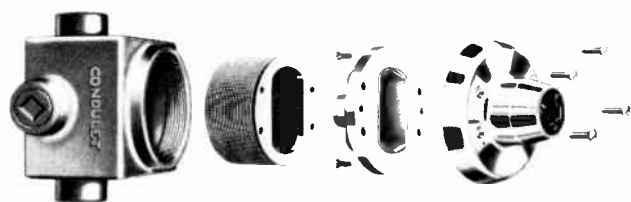
CIR-CHEK open circuit detector was developed specifically to solve the problem of detecting an open circuit. Prior to this development, a relay and pilot light could be used to indicate which switch in a series of switches had opened, but in the more complex circuits this type of installation was expensive and in some cases the cost was prohibitive. With CIR-CHEK any switch can be monitored at a low cost; can be installed into existing control circuits without modifying these circuits in any manner. CIR-CHEK need only be wired with the load terminals connected across the switch being monitored; does not interfere with the control circuit operation.



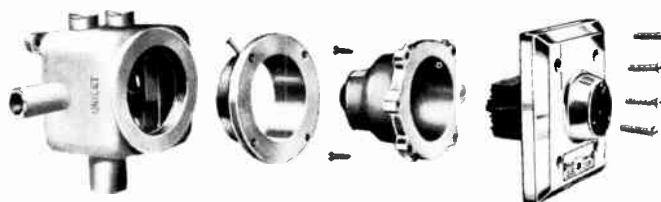
Hubbell	Cat. No.	Description	Ctn./Pkg.	Each
SP-100		Cir-Chek Open Circuit Detector	1/10	\$20.00
SP-109		Cir-Chek Name Plate	1/10	.52

HUBBELL WIRING DEVICES

EXPLOSION-PROOF "HUBBELL" DEVICES
 Designed for Hospital Operating Rooms and All Other
 Class I, Groups C and D Atmospheres
 3-Wire, 20 Amp., 125 Volts A.C. Only



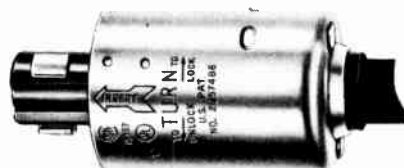
STANDARD UNIT



LOW-PROFILE UNIT

Cat. No. Hubbell	Description	Each
Standard Units		
24309	Complete Receptacle Assembled, Sealed and Ready for Installation, Plus Shallow Condulet and a 0" to 5/8" Adjusting Ring With Plaster Shield, UL Listed	\$ 74.38
24303	Same as 24309 Less Condulet	68.00
24310	Complete Receptacle Assembled, Sealed and Ready for Installation, Plus Deep Condulet and a 0" to 1 1/4" Adjusting Ring With Plaster Shield, UL Listed	77.35
24304	Same as 24310 Less Condulet	69.28
24305	Condulet (box only) Shallow. Same as Crouse-Hinds No. CPS-301, With Plaster Shield and 3 Pipe Plugs	6.49
24306	Condulet (box only) Deep. Same as Crouse-Hinds No. CPS-303, With Plaster Shield and 3 Pipe Plugs	8.00
24311	Complete Receptacle Assembled, Sealed and Ready for Installation, Plus Special Plate. Fits Single or 2-Gang Standard or Shallow Switchboxes	69.70

Cat. No. Hubbell	Description	Each
Low Profile Units		
24353	Complete Receptacle With Threaded Adjusting Ring and Unilet	88.00
24352	Same as 24353 Less Unilet and Ring	74.00
24351	Unilet and Adjusting Ring With Plaster Shield and 4 Pipe Plugs	14.00
24354	Adjusting Ring for Adapting 24352 to Existing Unilets	5.00
Portable 3-Outlet Cluster		
24720	Polished Aluminum, Explosion-Proof	285.00
24721	Plain Aluminum, Explosion-Proof	224.00



No. 24312

Epoxy Sealed "Hubbelock" Cap		
24312	For Use With All Explosion-Proof Units	17.00
Note: Carton and Standard Package 1 on above.		

CORROSION RESISTANT 3-WIRE GROUNDING DEVICES

15 and 20 Amp., 125 Volts A.C. or D.C.
 For Industrial and Marine Application Where Corrosion Is a Problem



No. 52CM62



No. 52CM08

Hubbell	Cat. No. A-H&H	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
15 Amp. Outlet						
52CM62	5262CR	Duplex, Melamine		10/50	\$291.00	\$252.20
15 Amp. Caps						
52CM08	5208CR	Insulprene W/Cord Grip	.296-.625	10/50	139.88	121.23
52CM80		Anchor Lock Type	.296-.625	10/50	157.50	136.50
15 Amp. Connector Body						
52CM07	5207CR	Insulprene W/Cord Grip	.296-.625	10/50	211.13	182.98
20 Amp. Outlets						
53CM62	5739CR	Duplex, Melamine		10/50	388.88	337.03
53CM61	5361CR	Single, Melamine		10/50	273.75	237.25
20 Amp. Caps						
53CM64		Armored With Cord Grip	.296-.625	10/50	207.38	179.73
53CM65		Armored, Anchor Lock	.296-.625	10/50	288.38	249.93
53CM75	5726CR	Insulprene W/Cord Grip	.296-.625	10/50	224.63	194.68
20 Amp. Connector Body						
53CM74	5374CR	Armored With Cord Grip	.296-.625	10/50	333.00	288.60



No. 53CM62



No. 53CM75

HUBBELL WIRING DEVICES

CORROSION RESISTANT 2-, 3-, & 4-WIRE 20 AMPERE "TWIST-LOCK" DEVICES
For Industrial and Marine Applications Where Corrosion Is a Problem

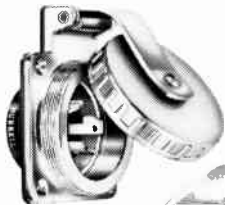
Cat. No. Hubbell	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
2-Wire, 20 Amp., 250 Volts A.C. or D.C.					
72CM10	Outlet, Porcelain		10/50	\$147.00	\$127.40
97CM71	Cap, Insulprene W/Cord Grip ....	.296-.625	10/30	189.75	164.45
97CM68	Connector Body, Insulprene W/Cord Grip .....	.296-.625	10/30	340.13	294.78
88CM18	Flanged Inlet		10/30	158.25	137.15
48CM95	Closure Plug for 88CM18		10/50	76.13	65.98
77CM44	Seal-Tite Cover for 97CM71		10/30	95.25	82.55
77CM46	Seal-Tite Cover for 97CM68		10/30	95.25	82.55
3-Wire, 20 Amp., 125/250 Volts A.C. or D.C.					
73CM10	Outlet, Porcelain		10/30	326.25	282.75
99CM60	Cap, Insulprene W/Cord Grip ....	.437-.750	10/30	275.25	238.55
99CM66	Connector Body, Insulprene W/Cord Grip .....	.437-.750	10/30	399.38	346.13
76CM01	Flanged Inlet on Fiberglass W/Proof Lift Cover Plate		10/20	690.38	598.33
60CM21	Seal-Tite Cover for 99CM60		10/30	112.13	97.18
60CM20	Seal-Tite Cover for 99CM66		10/30	117.38	101.73
75CM31	Seal-Tite Cover for 99CM66 When Used With 76CM01		10/30	95.25	82.55
4-Wire, 20 Amp., 250 Volts A.C. or 10 Amp., 600 Volts A.C. Only					
74CM10	Outlet, Porcelain		10/20	421.88	365.63
99CM62	Cap, Insulprene W/Cord Grip ....	.437-.750	10/20	377.25	326.95
99CM68	Connector Body, Insulprene W/Cord Grip .....	.437-.750	10/20	511.88	443.63
74CM50	Flanged Inlet on Fiberglass W/Proof Lift Cover Plate		5/20	632.25	547.95
75CM41	Seal-Tite Cover for 99CM62		10/30	137.63	119.28
75CM09	Seal-Tite Cover for 99CM68		5/30	137.63	119.28



No. 73CM10



No. 99CM60



No. 60CM61



No. 31CM20



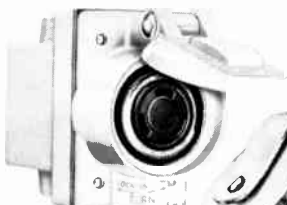
No. 61CM28

CORROSION RESISTANT 3-WIRE 30 AMPERE "TWIST-LOCK" DEVICES
30 Amp., 125 Volts A.C. or D.C.
For Industrial and Marine Applications Where Corrosion Is a Problem

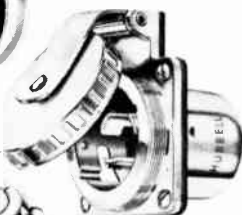
Cat. No. Hubbell	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
31CM20	Outlet, Single		10/30	\$ 321.00	\$ 278.20
31CM21	Cap, Armored W/Cord Grip ....	.625-1.000	10/30	305.63	264.88
31CM23	Connector Body W/Cord Grip ....	.625-1.000	10/30	549.38	476.13
60CM61	Power Inlet		2/10	1263.00	1094.60
60CM75	Adapter for Mounting Power Inlets to FS Boxes		10/50	269.63	233.68
61CM28	50' Pre-wired Cord Set		1/1	55.50	Each
61CM28K	Same as 61CM28 With Kellems Strain Relief Grip		1/1	59.50	Each

CORROSION RESISTANT 3- and 4-WIRE 50 AMPERE "TWIST-LOCK" DEVICES
For Industrial and Marine Applications Where Corrosion Is a Problem

Cat. No. Hubbell	Description	Cord Dia., Inches	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
2 Pole 3-Wire Grounded, 50 Amp., 125 Volts A.C. or D.C.					
63CM70	Outlet, Single		1/10	\$1158.00	\$1003.60
61CM53	50' Pre-wired Cord Set		1/1	158.50	Each
61CM53K	Same as 61CM53 With Kellems Strain Relief Grip		1/1	162.50	Each
63CM72	Power Inlet		1/5	2154.38	1867.13
63CM61	Cap With Cord Grip .....	.437-1.140	1/10	1290.75	1118.65
63CM60	Connector Body W/Cord Grip ..	.437-1.140	1/10	1479.75	1282.45
3 Pole 4-Wire (With Equipment Grounded), 50 Amp., 125/250 Volts A.C. or D.C.					
63CM69	Outlet, Single		1/10	1180.13	1022.78
61CM52	50' Pre-wired Cord Set		1/1	161.50	Each
61CM52K	Same as 61CM52 With Kellems Strain Relief Grip		1/1	166.00	Each
63CM74	Power Inlet		1/5	2181.38	1890.53
63CM65	Cap With Cord Grip .....	.437-1.140	1/10	1323.38	1146.93
63CM64	Connector Body W/Cord Grip ....	.437-1.140	1/10	1497.38	1297.73



No. 63CM70



No. 63CM72



No. 61CM53

Note: Seal-Tite covers available for caps and connector bodies above.

HUBBELL WIRING DEVICES

CORROSION RESISTANT BOXES AND PLATES



No. 60CM83



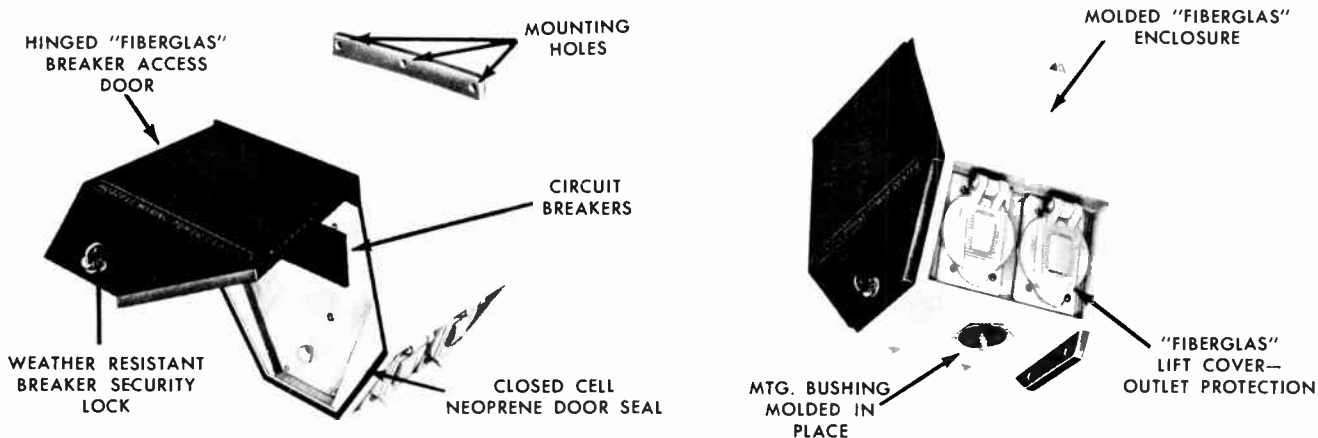
No. 52CM21



No. 74CM25

Cat. No. Hubbell	Description	Ctn./Pkg.	Per 100 Ctn.	Std. Pkg.
FD Boxes				
6083	Gray Fiberglas, 3/4" Knockouts	1/10	\$296.25	\$256.75
60CM83	Yellow Fiberglas, 3/4" Knockouts	1/10	296.25	256.75
6084	Gray Fiberglas, 1" Knockouts	1/10	296.25	256.75
60CM84	Yellow Fiberglas, 1" Knockouts	1/10	296.25	256.75
FS Box				
6080	Non-Metallic, Black, 3/4" Knockouts	1/10	193.13	167.38
Junction Box and Cover				
6081	Non-Metallic, Black, 3/4" Knockouts	1/10	236.25	204.75
6082	Cover, Non-Metallic, Black	1/10	91.13	78.98
Weatherproof Lift Cover Plates				
5221	For Duplex Outlets, Gray Fiberglas, Fits FS Boxes	2/10	361.50	313.30
52CM21	Same as 5221 but Yellow Fiberglas	2/10	361.50	313.30
5222	For Duplex Outlets, Gray Fiberglas, Fits Standard Boxes	2/10	361.50	313.30
52CM22	Same as 5222 but Yellow Fiberglas	2/10	361.50	313.30
7424	For 30 Amp. Outlets, Gray Fiberglas	10/20	391.50	339.30
74CM24	Same as 7424 but Yellow Fiberglas	2/10	391.50	339.30
7425	For Most Single Outlets, Gray Fiberglas	2/10	361.50	313.30
74CM25	Same as 7425 but Yellow Fiberglas	2/10	361.50	313.30
Super Stainless Steel 302 Plate				
93101	Single Gang for Duplex Outlets	10/100	52.88	45.83

POWER CENTERS
Completely Pre-Wired — Corrosion Resistant



Designed for outdoor use where power is required for portable or mobile equipment. Ideally suited to meet the requirements of marinas, mobile home parks, refrigerated truck docks, railroad yards, temporary power for construction sites, etc. All power centers, whether standard or custom, automatically include branch circuit breakers of the same ampere rating as the outlets. Yellow boxes, gray doors.

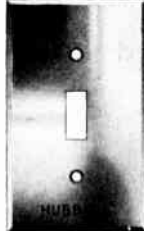
Cat. No. Hubbell	Outlets	Components		Std. Pkg.	Each
		Type	Main Breaker Rating		
AACC207Z	(2)63CM70-50 Amp. & (2)31CM20-30 Amp.	Double Pole	70A	1	\$302.00
AACC500Z	(2)63CM70-50 Amp. & (2)31CM20-30 Amp.	None	.....	1	264.50
CCCC110Z	(4)31CM20-30 Amp.	Single Pole	100A	1	274.50
CCCC500Z	(4)31CM20-30 Amp.	None	.....	1	250.00
CCHH110Z	(2)31CM20-30 Amp. & (2)53CM61-20 Amp.	Single Pole	100A	1	269.00
CCHH500Z	(2)31CM20-30 Amp. & (2)53CM61-20 Amp.	None	1	245.50

HUBBELL WIRING DEVICES

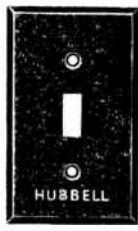
TOGGLE SWITCH PLATES



No. 91071

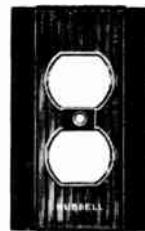


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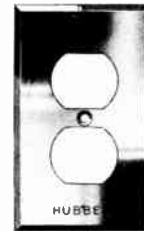


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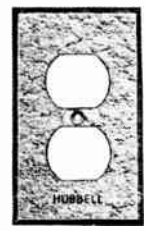
DUPLEX OUTLET PLATES



No. 91101



No. 94101



No. 99101

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91071	Uniline Br. Phenolic ..	10/100	\$ 9.38	\$ 8.13
92071	Uniline Iv. Phenolic ..	10/50	12.75	11.05
91071-GRY	Uniline Gr. Phenolic ..	10/100	12.75	11.05
94071	.040" Brush Brass	10/100	54.00	46.80
96071	.060" Brush Brass	10/100	73.88	64.03
93071	Super S/Steel 302	10/100	52.88	45.83
97071	S/Steel 430	10/100	32.25	27.95
95071	Anodized Alum.	10/100	64.13	55.58
98071	Br. Wrinkle Metal	10/100	14.63	12.68
99071	Iv. Wrinkle Metal	10/100	15.38	13.33
2-Gang				
91072	Uniline Br. Phenolic ..	5/50	19.13	16.58
92072	Uniline Iv. Phenolic ..	5/25	24.75	21.45
91072-GRY	Uniline Gr. Phenolic ..	5/50	24.75	21.45
94072	.040" Brush Brass	5/50	107.25	92.95
96072	.060" Brush Brass	5/50	147.75	128.05
93072	Super S/Steel 302	5/50	102.00	88.40
97072	S/Steel 430	5/50	78.75	68.25
95072	Anodized Alum.	5/30	127.50	110.50
98072	Br. Wrinkle Metal	5/50	28.13	24.38
99072	Iv. Wrinkle Metal	5/50	29.63	25.68
3-Gang				
91073	Uniline Br. Phenolic ..	3/30	40.50	35.10
92073	Uniline Iv. Phenolic ..	3/15	61.88	53.63
91073-GRY	Uniline Gr. Phenolic ..	3/15	61.88	53.63
94073	.040" Brush Brass	3/30	160.88	139.43
96073	.060" Brush Brass	3/30	222.38	192.73
93073	Super S/Steel 302	3/30	144.75	125.45
97073	S/Steel 430	3/30	193.63	103.68
95073	Anodized Alum.	3/30	192.00	166.40
98073	Br. Wrinkle Metal	3/30	49.88	43.23
99073	Iv. Wrinkle Metal	3/30	53.25	46.15
4-Gang				
91074	Uniline Br. Phenolic ..	3/25	71.25	61.75
92074	Uniline Iv. Phenolic ..	3/15	90.38	78.33
91074-GRY	Uniline Gr. Phenolic ..	3/15	90.38	78.33
94074	.040" Brush Brass	3/25	214.13	185.58
96074	.060" Brush Brass	3/25	283.50	245.70
93074	Super S/Steel 302	3/25	180.75	156.65
97074	S/Steel 430	3/25	154.50	133.90
95074	Anodized Alum.	3/25	257.25	222.95
98074	Br. Wrinkle Metal	3/25	67.88	58.83
99074	Iv. Wrinkle Metal	3/25	77.25	66.95
5-Gang				
91075	Uniline Br. Phenolic ..	2/20	162.38	140.73
92075	Uniline Iv. Phenolic ..	2/10	194.63	168.68
91075-GRY	Uniline Gr. Phenolic ..	2/20	194.63	168.68
94075	.040" Brush Brass	2/20	268.50	232.70
96075	.060" Brush Brass	2/20	343.88	298.03
93075	Super S/Steel 302	2/20	247.88	214.83
97075	S/Steel 430	2/20	211.88	183.63
95075	Anodized Alum.	2/20	321.38	278.53
98075	Br. Wrinkle Metal	2/30	77.25	66.95
99075	Iv. Wrinkle Metal	2/20	107.63	93.28
6-Gang				
91076	Uniline Br. Phenolic ..	2/15	177.75	154.05
92076	Uniline Iv. Phenolic ..	2/10	234.75	203.45
91076-GRY	Uniline Gr. Phenolic ..	2/15	234.75	203.45
94076	.040" Brush Brass	2/15	322.13	279.18
96076	.060" Brush Brass	2/15	404.63	350.68
93076	Super S/Steel 302	2/15	282.38	244.73
97076	S/Steel 430	2/15	241.50	209.30
95076	Anodized Alum.	2/15	385.50	334.10
98076	Br. Wrinkle Metal	2/15	88.50	76.70
99076	Iv. Wrinkle Metal	2/15	125.25	108.55

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91101	Uniline Br. Phenolic ..	10/100	\$ 9.38	\$ 8.13
92101	Uniline Iv. Phenolic ..	10/50	12.75	11.05
91101-GRY	Uniline Gr. Phenolic ..	10/100	12.75	11.05
94101	.040" Brush Brass	10/100	54.00	46.80
96101	.060" Brush Brass	10/100	73.88	64.03
93101	Super S/Steel 302	10/100	52.88	45.83
97101	S/Steel 430	10/100	32.25	27.95
95101	Anodized Alum.	10/100	64.13	55.58
98101	Br. Wrinkle Metal	10/100	14.63	12.68
99101	Iv. Wrinkle Metal	10/100	15.38	13.33
2-Gang				
91102	Uniline Br. Phenolic ..	5/50	55.88	48.43
92102	Uniline Iv. Phenolic ..	5/25	65.63	56.88
91102-GRY	Uniline Gr. Phenolic ..	5/25	65.63	56.88
94102	.040" Brush Brass	5/50	151.88	131.63
96102	.060" Brush Brass	5/50	197.25	170.95
93102	Super S/Steel 302	5/50	102.00	88.40
97102	S/Steel 430	5/50	78.75	68.25
95102	Anodized Alum.	10/50	174.00	150.80
98102	Br. Wrinkle Metal	5/50	27.00	23.40
99102	Iv. Wrinkle Metal	5/50	30.75	26.65
3-Gang				
94103	.040" Brush Brass	3/30	239.25	207.35
96103	.060" Brush Brass	3/30	300.38	260.33

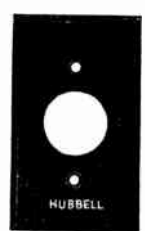
SINGLE OUTLET PLATES



No. 91091



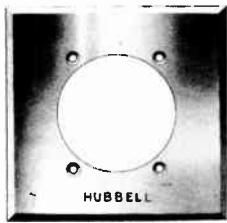
No. 94091



No. 98091

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91091	Uniline Br. Phenolic ..	10/100	\$ 17.63	\$ 15.28
92091	Uniline Iv. Phenolic ..	10/50	23.25	20.15
91091-GRY	Uniline Gr. Phenolic ..	10/50	23.25	20.15
94091	.040" Brush Brass	10/100	54.00	46.80
96091	.060" Brush Brass	10/100	73.88	64.03
93091	Super S/Steel 302	10/100	52.88	45.83
97091	S/Steel 430	10/100	32.25	27.95
95091	Anodized Alum.	10/100	64.13	55.58
98091	Br. Wrinkle Metal	10/100	17.63	15.28
99091	Iv. Wrinkle Metal	10/100	25.13	21.78
2-Gang				
94092	.040" Brush Brass	5/50	151.88	131.63
96092	.060" Brush Brass	5/50	197.25	170.95
3-Gang				
94093	.040" Brush Brass	3/30	243.00	210.60
96093	.060" Brush Brass	3/30	300.38	260.33

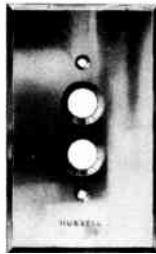
HUBBELL WIRING DEVICES



No. 7114



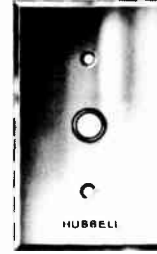
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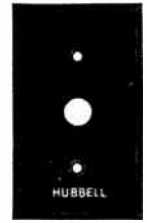
No. 94081



No. 91181



No. 94181



No. 98181

SINGLE OUTLET PLATES WITH NON-STANDARD BOSS SIZES

Cat. No. Hubbell & A-H&H	Gang	Description	Ctn./Pkg.	Per 100	
				Ctn.	Std. Pkg.
Boss Dia. 1.562 to 1.572					
91111	1	Uniline Br. Phenolic	10/30	\$ 36.75	\$ 31.85
92111	1	Uniline Iv. Phenolic	10/30	42.38	36.73
7421	1	.060" Brush Brass ..	10/20	111.00	96.20
93111	1	Super S/Steel 302 ..	2/10	64.13	55.58
97111	1	S/Steel 430	10/100	40.50	35.10

Boss Dia. 1.593					
91111	1	Uniline Br. Phenolic	10/30	36.75	31.85
92111	1	Uniline Iv. Phenolic	10/30	42.38	36.73
94111	1	.040" Brush Brass ..	10/80	65.25	56.55
93111	1	Super S/Steel 302 ..	2/10	64.13	55.58
97111	1	S/Steel 430	10/100	40.50	35.10

Boss Dia. 1.718					
3391	1	.040" Brush Brass ..	2/10	113.63	98.48
3392	1	S/Steel 430	2/10	63.75	55.25

Boss Dia. 2.093					
7881	1	Uniline Br. Phenolic	2/10	38.63	33.48
7881-I	1	Uniline Iv. Phenolic	2/10	44.63	38.68
9363	1	Super S/Steel 302 ..	2/10	74.63	64.68
9353	1	S/Steel 430	2/10	61.13	52.98
7882*	2	Uniline Br. Phenolic	2/10	57.75	50.05
7881-I*	2	Uniline Iv. Phenolic	2/10	67.88	58.83
9364*	2	Super S/Steel 302 ..	2/10	150.75	130.65
9366*†	2	Super S/Steel 302 ..	2/10	181.50	157.30
9354*	2	S/Steel 430	2/10	147.00	127.40
9356*†	2	S/Steel 430	2/10	177.38	153.73

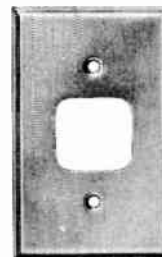
Boss Dia. 2.125					
7897*	2	Uniline Br. Phenolic	2/10	104.25	90.35
7897-I*	2	Uniline Iv. Phenolic	2/10	114.38	99.13
7987*	2	.040" Brush Brass ..	2/10	162.38	140.73
7975*†	2	.040" Brush Brass ..	2/10	199.88	173.23
7976*	2	S/Steel 430	2/10	177.38	153.73

Boss Dia. 2.437					
7114*	2	.060" Brush Brass ..	2/5	183.00	158.60
7118*	2	S/Steel 430	2/5	104.25	90.35

*Indicates plate is 2-gang size but accommodates 1 outlet.
†Used with grounded type outlets.

PUSHBUTTON SWITCH PLATES

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91081	Uniline Br. Phenolic ..	10/100	\$ 17.63	\$ 15.28
92081	Uniline Iv. Phenolic ..	10/50	23.25	20.15
91081-GRY	Uniline Gr. Phenolic..	10/50	23.25	20.15
94081	.040" Brush Brass	10/100	55.50	48.10
96081	.060" Brush Brass	10/100	77.63	67.28
2-Gang				
94082	.040" Brush Brass	5/50	109.88	95.23
96082	.060" Brush Brass	5/50	156.00	135.20
3-Gang				
94083	.040" Brush Brass	3/30	165.38	143.33
96083	.060" Brush Brass	3/30	235.13	203.78



No. 97191



No. 94121

TELEPHONE PLATES

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91181	Uniline Br. Phenolic ..	10/50	\$ 24.00	\$ 20.80
92181	Uniline Iv. Phenolic ..	10/30	28.88	25.03
91181-GRY	Uniline Gr. Phenolic ..	10/30	28.88	25.03
94181	.040" Brush Brass	10/50	73.88	64.03
96181	.060" Brush Brass	10/50	95.25	82.55
93181	Super S/Steel 302	10/50	64.50	55.90
97181	S/Steel 430	10/50	43.13	37.38
95181	Anodized Alum.	10/50	84.75	73.45
93181	Br. Wrinkle Metal	10/50	20.25	17.55
99181	Iv. Wrinkle Metal	10/50	25.13	21.78

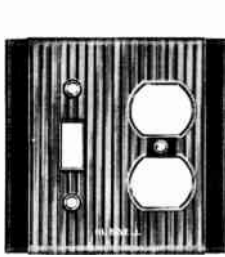
2-Gang				
94182	.040" Brush Brass	5/25	155.25	134.55
3-Gang				
94183	.040" Brush Brass	3/15	230.63	199.88

BLANK PLATES

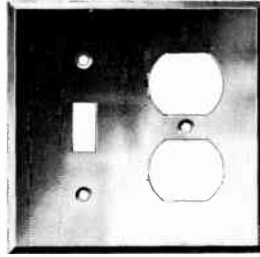
Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1-Gang				
91121	Uniline Br. Phenolic ..	10/50	\$ 24.00	\$ 20.80
92121	Uniline Iv. Phenolic ..	10/50	28.88	25.03
91121-GRY	Uniline Gr. Phenolic ..	10/30	28.88	25.03
94121	.040" Brush Brass	10/50	69.38	60.13
96121	.060" Brush Brass	10/50	89.25	77.35
93121	Super S/Steel 302	10/50	63.75	55.25
97121	S/Steel 430	10/50	42.38	36.73
95121	Anodized Alum.	10/30	79.13	68.58
93121	Br. Wrinkle Metal	10/50	24.00	20.80
99121	Iv. Wrinkle Metal	10/50	27.00	23.40
2-Gang				
91122	Uniline Br. Phenolic ..	5/25	71.25	61.75
92122	Uniline Iv. Phenolic ..	5/25	82.88	71.83
91122-GRY	Uniline Gr. Phenolic ..	5/15	82.88	71.83
94122	.040" Brush Brass	5/25	141.38	122.53
96122	.060" Brush Brass	5/25	180.75	156.65
93122	Super S/Steel 302	5/25	113.63	98.48
97122	S/Steel 430	5/25	90.38	78.33
95122	Anodized Alum.	5/10	160.88	139.43
3-Gang				
94123	.040" Brush Brass	3/15	206.63	179.08
96123	.060" Brush Brass	3/15	269.25	233.35
97123	S/Steel 430	2/50	145.13	125.78

HUBBELL WIRING DEVICES

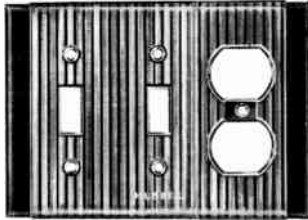
COMBINATION TOGGLE SWITCH AND DUPLEX OUTLET PLATES



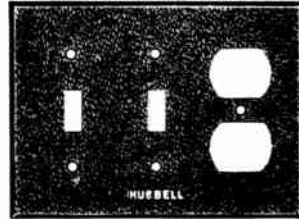
No. 91532



No. 94532



No. 91543



No. 98543

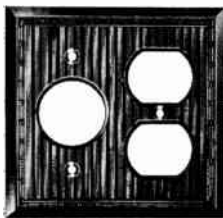
Cat. No.
Hubbell &
A-H&H

Description	Ctn./Pkg.	Per 100	
		Ctn.	Std. Pkg.
2-Gang			
91532 Uniline Br. Phenolic ..	2/10	\$ 34.50	\$ 29.90
92532 Uniline Iv. Phenolic ..	2/10	46.50	40.30
91532-GRY Uniline Gr. Phenolic ..	2/10	46.50	40.30
94532 .040" Brush Brass	2/10	140.63	121.88
96532 .060" Brush Brass	2/10	182.25	157.95
93532 Super S/Steel 302	2/10	104.25	90.35
97532 S/Steel 430	2/10	81.00	70.20
95532 Anodized Alum.	2/10	161.63	140.08
98532 Br. Wrinkle Metal	2/10	34.50	29.90
99532 Iv. Wrinkle Metal	2/10	44.25	38.35

3-Gang

91543 Uniline Br. Phenolic ..	2/10	71.25	61.75
92543 Uniline Iv. Phenolic ..	2/10	90.38	78.33
91543-GRY Uniline Gr. Phenolic ..	2/10	90.38	78.33
94543 .040" Brush Brass	2/10	208.88	181.03
96543 .060" Brush Brass	2/10	273.38	236.93
93543 Super S/Steel 302	2/10	148.88	129.03
97543 S/Steel 430	2/10	123.75	107.25
95543 Anodized Alum.	2/10	241.50	209.30
98543 Br. Wrinkle Metal	2/10	52.50	45.50
99543 Iv. Wrinkle Metal	2/10	61.88	53.63

COMBINATION SINGLE AND DUPLEX OUTLET PLATES



No. 91572



No. 94572

Cat. No.
Hubbell &
A-H&H

Description	Ctn./Pkg.	Per 100	
		Ctn.	Std. Pkg.
2-Gang			
91572 Uniline Br. Phenolic ..	2/10	\$ 82.88	\$ 71.83
92572 Uniline Iv. Phenolic ..	2/10	92.63	80.28
94572 .040" Brush Brass	2/10	145.13	125.78
96572 .060" Brush Brass	2/10	187.13	162.18

COMBINATION TOGGLE SWITCH AND SINGLE OUTLET PLATES

Cat. No.
Hubbell &
A-H&H

Description	Ctn./Pkg.	Per 100	
		Ctn.	Std. Pkg.
2-Gang			
94512 .040" Brush Brass	2/10	\$140.63	\$121.88
96512 .060" Brush Brass	2/10	182.25	157.95
93512 Super S/Steel 302	2/10	104.25	90.35
97512 S/Steel 430	2/10	81.00	70.20
95512 Anodized Alum.	2/10	161.63	140.08
98512 Br. Wrinkle Metal	2/10	34.50	29.90
99512 Iv. Wrinkle Metal	2/10	44.25	38.35

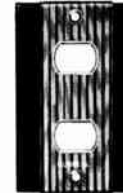
INTERCHANGEABLE DEVICES PLATES - 1-GANG



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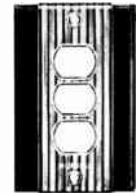
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No. 91021



No. 94021



No. 91031



No. 98031



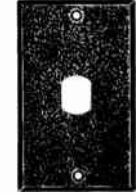
No. 96031



No. 91041



No. 96041



No. 98041

Cat. No.
Hubbell &
A-H&H

Description	Ctn./Pkg.	Per 100	
		Ctn.	Std. Pkg.
1 Horizontal Opening			
91011 Uniline Br. Phenolic ..	10/100	\$ 17.63	\$ 15.28
92011 Uniline Iv. Phenolic ..	10/100	22.50	19.50
94011 .040" Brush Brass	10/100	64.50	55.90
96011 .060" Brush Brass	10/100	86.63	75.08
97011 S/Steel 430	10/100	38.63	33.48
98011 Br. Wrinkle Metal	10/100	16.88	14.63
99011 Iv. Wrinkle Metal	10/100	20.25	17.55

2 Horizontal Openings

91021 Uniline Br. Phenolic ..	10/50	17.63	15.28
92021 Uniline Iv. Phenolic ..	10/50	22.50	19.50
94021 .040" Brush Brass	10/50	64.50	55.90
96021 .060" Brush Brass	10/50	86.63	75.08
97021 S/Steel 430	10/50	38.63	33.48
98021 Br. Wrinkle Metal	10/50	16.88	14.63
99021 Iv. Wrinkle Metal	10/50	20.25	17.55

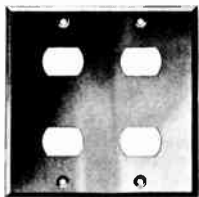
3 Horizontal Openings

91031 Uniline Br. Phenolic ..	10/30	17.63	15.28
92031 Uniline Iv. Phenolic ..	10/30	22.50	19.50
94031 .040" Brush Brass	10/30	64.50	55.90
96031 .060" Brush Brass	10/30	86.63	75.08
97031 S/Steel 430	10/30	38.63	33.48
98031 Br. Wrinkle Metal	10/30	16.88	14.63
99031 Iv. Wrinkle Metal	10/30	20.25	17.55

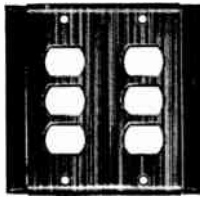
1 Vertical Opening

91041 Uniline Br. Phenolic ..	10/100	17.63	15.28
92041 Uniline Iv. Phenolic ..	10/100	22.50	19.50
94041 .040" Brush Brass	10/100	64.50	55.90
96041 .060" Brush Brass	10/100	86.63	75.08
97041 S/Steel 430	10/100	38.63	33.48
98041 Br. Wrinkle Metal	10/100	16.88	14.63
99041 Iv. Wrinkle Metal	10/100	20.25	17.55

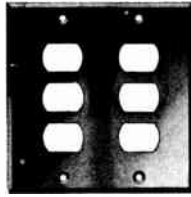
HUBBELL WIRING DEVICES



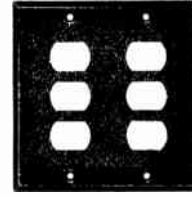
No. 94022



No. 91032



No. 96032



No. 98032

INTERCHANGEABLE DEVICES PLATES — 2-GANG

INTERCHANGEABLE DEVICES PLATES — 3-GANG

Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1 Horizontal Opening Each Gang				
91012	Uniline Br. Phenolic ..	10/50	\$ 34.50	\$ 29.90
92012	Uniline Iv. Phenolic ..	10/50	46.88	40.63
94012	.040" Brush Brass	2/10	130.13	112.78
96012	.060" Brush Brass	2/10	174.00	150.80
97012	S/Steel 430	2/10	85.13	73.78
98012	Br. Wrinkle Metal	2/10	33.75	29.25
99012	Iv. Wrinkle Metal	2/10	40.50	35.10
2 Horizontal Openings Each Gang				
91022	Uniline Br. Phenolic ..	10/30	46.88	40.63
92022	Uniline Iv. Phenolic ..	10/30	57.75	50.05
94022	.040" Brush Brass	2/10	130.13	112.78
96022	.060" Brush Brass	2/10	174.00	150.80
97022	S/Steel 430	2/10	107.63	93.28
98022	Br. Wrinkle Metal	2/10	40.50	35.10
99022	Iv. Wrinkle Metal	2/10	49.88	43.23
3 Horizontal Openings Each Gang				
91032	Uniline Br. Phenolic ..	10/20	61.88	53.63
92032	Uniline Iv. Phenolic ..	10/20	75.75	65.65
94032	.040" Brush Brass	2/10	130.13	112.78
96032	.060" Brush Brass	2/10	174.00	150.80
97032	S/Steel 430	2/10	112.50	97.50
98032	Br. Wrinkle Metal	2/10	40.50	35.10
99032	Iv. Wrinkle Metal	2/10	49.88	43.23
1 Vertical Opening Each Gang				
94042	.040" Brush Brass	2/10	130.13	112.78
96042	.060" Brush Brass	2/10	174.00	150.80
97042	S/Steel 430	2/10	85.13	73.78
98042	Br. Wrinkle Metal	2/10	33.75	29.25
99042	Iv. Wrinkle Metal	2/10	40.50	35.10

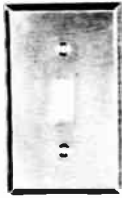
Cat. No. Hubbell & A-H&H	Description	Ctn./Pkg.	Per 100	
			Ctn.	Std. Pkg.
1 Horizontal Opening Each Gang				
94013	.040" Brush Brass	2/10	\$194.25	\$168.35
95013	.060" Brush Brass	2/10	261.38	226.53
97013	S/Steel 430	2/10	123.75	107.25
98013	Br. Wrinkle Metal	2/10	52.50	45.50
99013	Iv. Wrinkle Metal	2/10	57.75	50.05
2 Horizontal Openings Each Gang				
91023	Uniline Br. Phenolic ..	10/20	88.50	76.70
92023	Uniline Iv. Phenolic ..	10/20	105.75	91.65
94023	.040" Brush Brass	2/10	194.25	168.35
95023	.060" Brush Brass	2/10	261.38	226.53
97023	S/Steel 430	2/10	147.75	128.05
98023	Br. Wrinkle Metal	2/10	55.88	48.43
99023	Iv. Wrinkle Metal	2/10	71.25	61.75
3 Horizontal Openings Each Gang				
94033	.040" Brush Brass	2/10	194.25	168.35
95033	.060" Brush Brass	2/10	261.38	226.53
97033	S/Steel 430	2/10	147.75	128.05
98033	Br. Wrinkle Metal	2/10	55.88	48.43
99033	Iv. Wrinkle Metal	2/10	71.25	61.75
1 Vertical Opening Each Gang				
94043	.040" Brush Brass	2/10	194.25	168.25
95043	.060" Brush Brass	2/10	261.38	226.53
97043	S/Steel 430	2/10	123.75	107.25
98043	Br. Wrinkle Metal	2/10	52.50	45.50
99043	Iv. Wrinkle Metal	2/10	57.75	50.05

"JACKRABBIT" FLUORESCENT STARTERS

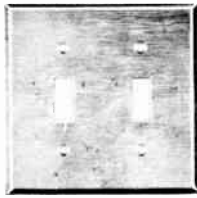


Cat. No. Hubbell	A-H&H	For Use With	Ctn./Pkg.	Per 100	
				Ctn.	Std. Pkg.
Neostart					
FS-2	FS-2	14, 15 and 20 Watt Lamps	10/100	\$ 22.50	\$ 19.50
FS-4	FS-4	13, 30 and 40 Watt Lamps	10/100	22.50	19.50
FS-5	FS-5	4, 6 and 8 Watt Lamps	10/100	36.00	31.20
FS-12	FS-12	32 Watt Circline Lamps	10/100	24.75	21.45
FS-25	FS-25	22 Watt Circline and 25 Watt Standard Lamps	10/100	33.00	28.60
FS-85	FS-85	90 and 100 Watt Lamps	10/100	83.25	72.15
FS-85-4	FS-85-4	90 and 100 Watt Lamps	10/100	83.25	72.15
Manual Reset					
FS-20	FS-20	14, 15 and 20 Watt Lamps	10/100	63.00	54.60
FS-30	.....	30 Watt Lamps	10/100	63.00	54.60
FS-40/400	FS-40/400	40 Watt Lamps	10/100	63.00	54.60
FS-850-2	.....	90 and 100 Watt Lamps	10/100	95.25	82.55
FS-850	FS-850	90 and 100 Watt Lamps	10/100	95.25	82.55
Autoset					
FS-2-NA	.....	20 Watt Lamps	10/100	66.00	57.20
FS-4-NA	FS-4-NA	40 Watt Lamps	10/100	66.00	57.20
FS-85-NA	FS-85-NA	90 and 100 Watt Lamps	10/100	95.25	82.55
FS-85-NA-4	.....	90 and 100 Watt Lamps	10/100	95.25	82.55
Thermostat					
M-2	.....	15 and 20 Watt Lamps	10/100	74.63	64.68

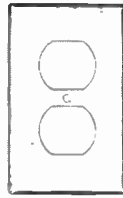
LEVITON WALL PLATES — METAL & PHENOLIC



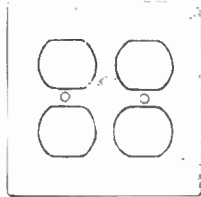
No. 83001



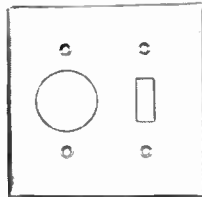
No. 86009



No. 86003



No. 86016



No. 86007

- Smooth face & rounded edges prevent dust accumulation.
- Meets NEC and UL requirements, where applicable.
- Matched mounting screws.

Series	Material	Specifications
81000	Brass	.040 inch solid brass with satin finish and permanently bonded clear protective coat.
83000	Aluminum	.040 inch Type 3003 aluminum alloy with satin finish and permanently bonded clear protective coating.
84000	Stainless Steel	.030 inch type 430 stainless steel with satin finish.
84000-40	Deluxe Stainless Steel	.040 inch Type 302 stainless steel with satin finish.
89000	Brass Anodized Aluminum	.040 inch satin aluminum alloy anodized with 70/30 brass color.
85000	Brown Phenolic	High dielectric; non absorbing, non-combustible, .100 inch thick plastic with reinforcing ribs for added strength.
86000	Ivory Urea	
87000	Gray Urea	
88000	White Urea	

- Each wall plate individually wrapped in cellophane.
- Exclusive, removable, clear plastic coat protects metal wall plates during installation and painting.
- Meet Federal Specification No. W-P-455a.

Cat. No.	Description	Per 100		
		Std. Ctn./Pkg.	Std. Ctn.	Std. Pkg.
Single Toggle				
81001	Brass	20/200	\$ 41.25	\$ 35.75
83001	Aluminum	20/200	18.00	15.60
84001	Stainless	20/200	25.50	22.10
84001-40	Deluxe Stainless	20/200	30.75	26.65
85001	Brown Phenolic	20/200	7.50	6.50
86001	Ivory Urea	20/200	10.50	9.10
87001	Gray Urea	20/200	11.25	9.75
88001	White Urea	20/200	11.25	9.75
89001	Brass Anodized Alum.	20/200	22.50	19.50
Push Button				
81002	Brass	10/100	\$ 41.25	\$ 35.75
83002	Aluminum	10/100	18.00	15.60
84002	Stainless	10/100	25.50	22.10
84002-40	Deluxe Stainless	10/100	30.75	26.65
85002	Brown Phenolic	10/100	7.50	6.50
86002	Ivory Urea	10/100	10.50	9.10
87002	Gray Urea	10/100	11.25	9.75
88002	White Urea	10/100	11.25	9.75
89002	Brass Anodized Alum.	10/100	22.50	19.50
Duplex Receptacle				
81003	Brass	20/200	\$ 41.25	\$ 35.75
83003	Aluminum	20/200	18.00	15.60
84003	Stainless	20/200	25.50	22.10
84003-40	Deluxe Stainless	20/200	30.75	26.65
85003	Brown Phenolic	25/500	7.50	6.50
86003	Ivory Urea	25/500	10.50	9.10
87003	Gray Urea	25/500	11.25	9.75
88003	White Urea	25/500	11.25	9.75
89003	Brass Anodized Alum.	20/200	22.50	19.50
Single Receptacle				
81004	Brass	10/100	\$ 41.25	\$ 35.75
83004	Aluminum	10/100	18.00	15.60
84004	Stainless	10/100	25.50	22.10
84004-40	Deluxe Stainless	10/100	30.75	26.65
85004	Brown Phenolic	10/100	7.50	6.50
86004	Ivory Urea	10/100	10.50	9.10
87004	Gray Urea	10/100	11.25	9.75
88004	White Urea	10/100	11.25	9.75
89004	Brass Anodized Alum.	10/100	22.50	19.50

Cat. No.	Description	Per 100		
		Std. Ctn./Pkg.	Std. Ctn.	Std. Pkg.
Radio-Telephone				
81013	Brass	10/100	\$ 41.25	\$ 35.75
83013	Aluminum	10/100	18.00	15.60
84013	Stainless	10/100	25.50	22.10
84013-40	Deluxe Stainless	10/100	30.75	26.65
85013	Brown Phenolic	10/100	7.50	6.50
86013	Ivory Urea	10/100	10.50	9.10
87013	Gray Urea	10/100	11.25	9.75
88013	White Urea	10/100	11.25	9.75
89013	Brass Anodized Alum.	10/100	22.50	19.50
Blank				
81014	Brass	10/100	\$ 41.25	\$ 35.75
83014	Aluminum	10/100	18.00	15.60
84014	Stainless	10/100	25.50	22.10
84014-40	Deluxe Stainless	10/100	30.75	26.65
85014	Brown Phenolic	10/100	7.50	6.50
86014	Ivory Urea	10/100	10.50	9.10
87014	Gray Urea	10/100	11.25	9.75
88014	White Urea	10/100	11.25	9.75
89014	Brass Anodized Alum.	10/100	22.50	19.50
Bell				
81017	Brass	10/100	\$ 41.25	\$ 35.75
83017	Aluminum	10/100	18.00	15.60
84017	Stainless	10/100	25.50	22.10
84017-40	Deluxe Stainless	10/100	30.75	26.65
85017	Brown Phenolic	10/100	7.50	6.50
86017	Ivory Urea	10/100	10.50	9.10
87017	Gray Urea	10/100	11.25	9.75
88017	White Urea	10/100	11.25	9.75
89017	Brass Anodized Alum.	10/100	22.50	19.50
Toggle & Duplex				
81005	Brass	10/100	\$ 82.50	\$ 71.50
83005	Aluminum	10/100	36.00	31.20
84005	Stainless	10/100	51.00	44.20
84005-40	Deluxe Stainless	10/100	61.50	53.30
85005	Brown Phenolic	10/100	15.00	13.00
86005	Ivory Urea	10/100	21.00	18.20
87005	Gray Urea	10/100	22.50	19.50
88005	White Urea	10/100	22.50	19.50
89005	Brass Anodized Alum.	10/100	45.00	39.00

LEVITON WALL PLATES — METAL & PHENOLIC (Con't)

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
Toggle & Single				
81007	Brass	10/100	\$ 82.50	\$ 71.50
83007	Aluminum	10/100	36.00	31.20
84007	Stainless	10/100	51.00	44.20
84007-40	Deluxe Stainless	10/100	61.50	53.30
85007	Brown Phenolic	10/100	15.00	13.00
86007	Ivory Urea	10/100	21.00	18.20
87007	Gray Urea	10/100	22.50	19.50
88007	White Urea	10/100	22.50	19.50
89007	Brass Anodized Alum.	10/100	45.00	39.00

Two Toggle				
81009	Brass	20/200	\$ 82.50	\$ 71.50
83009	Aluminum	20/200	36.00	31.20
84009	Stainless	20/200	51.00	44.20
84009-40	Deluxe Stainless	20/200	61.50	53.30
85009	Brown Phenolic	25/250	15.00	13.00
86009	Ivory Urea	25/250	21.00	18.20
87009	Gray Urea	25/250	22.50	19.50
88009	White Urea	25/250	22.50	19.50
89009	Brass Anodized Alum.	20/200	45.00	39.00

Two Push Button				
81010	Brass	10/100	\$ 82.50	\$ 71.50
83010	Aluminum	10/100	36.00	31.20
84010	Stainless	10/100	51.00	44.20
84010-40	Deluxe Stainless	10/100	61.50	53.30
89010	Brass Anodized Alum.	10/100	45.00	39.00

Two Duplex				
81016	Brass	10/100	\$ 82.50	\$ 71.50
83016	Aluminum	10/100	36.00	31.20
84016	Stainless	10/100	51.00	44.20
84016-40	Deluxe Stainless	10/100	61.50	53.30
85016	Brown Phenolic	10/100	15.00	13.00
86016	Ivory Urea	10/100	21.00	18.20
87016	Gray Urea	10/100	22.50	19.50
88016	White Urea	10/100	22.50	19.50
89016	Brass Anodized Alum.	10/100	45.00	39.00

One Duplex				
81039	Brass	10/100	\$ 82.50	\$ 71.50
83039	Aluminum	10/100	36.00	31.20
84039	Stainless	10/100	51.00	44.20
84039-40	Deluxe Stainless	10/100	61.50	53.30
89039	Brass Anodized Alum.	10/100	45.00	39.00

One Toggle				
81040	Brass	10/100	\$ 82.50	\$ 71.50
83040	Aluminum	10/100	36.00	31.20
84040	Stainless	10/100	51.00	44.20
84040-40	Deluxe Stainless	10/100	61.50	53.30
89040	Brass Anodized Alum.	10/100	45.00	39.00

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
Three Toggle				
81011	Brass	10/100	\$123.75	\$107.25
83011	Aluminum	10/100	54.00	46.80
84011	Stainless	10/100	76.50	66.30
84011-40	Deluxe Stainless	10/100	92.25	79.95
85011	Brown Phenolic	10/100	22.50	19.50
86011	Ivory Urea	10/100	31.50	27.30
87011	Gray Urea	10/100	33.75	29.25
88011	White Urea	10/100	33.75	29.25
89011	Brass Anodized Alum.	10/100	67.50	58.50

Two Toggle — One Duplex				
81021	Brass	10/100	\$123.75	\$107.25
83021	Aluminum	10/100	54.00	46.80
84021	Stainless	10/100	76.50	66.30
84021-40	Deluxe Stainless	10/100	92.25	79.95
85021	Brown Phenolic	10/100	22.50	19.50
86021	Ivory Urea	10/100	31.50	27.30
87021	Gray Urea	10/100	33.75	29.25
88021	White Urea	10/100	33.75	33.75
89021	Brass Anodized Alum.	10/100	67.50	58.50

Four Toggle				
81012	Brass	10/50	\$165.00	\$143.00
83012	Aluminum	10/50	72.00	62.40
84012	Stainless	10/50	102.00	88.40
84012-40	Deluxe Stainless	10/50	123.00	106.60
85012	Brown Phenolic	10/50	30.00	26.00
86012	Ivory Urea	10/50	42.00	36.40
87012	Gray Urea	10/50	45.00	39.00
88012	White Urea	10/50	45.00	39.00
89012	Brass Anodized Alum.	10/50	90.00	78.00

Four Duplex				
81041	Brass	10/50	\$165.00	\$143.00
83041	Aluminum	10/50	72.00	62.40
84041	Stainless	10/50	102.00	88.40
84041-40	Deluxe Stainless	10/50	123.00	106.60
89041	Brass Anodized Alum.	10/50	90.00	78.00

Three Toggle — One Single				
81042	Brass	10/50	\$165.00	\$143.00
83042	Aluminum	10/50	72.00	62.40
84042	Stainless	10/50	102.00	88.40
84042-40	Deluxe Stainless	10/50	123.00	106.60
89042	Brass Anodized Alum.	10/50	90.00	78.00

Three Toggle — One Duplex				
81043	Brass	10/50	\$165.00	\$143.00
83043	Aluminum	10/50	72.00	62.40
84043	Stainless	10/50	102.00	88.40
84043-40	Deluxe Stainless	10/50	123.00	106.60
89043	Brass Anodized Alum.	10/50	90.00	78.00

Two Toggle — Two Single				
81044	Brass	10/50	\$165.00	\$143.00
83044	Aluminum	10/50	72.00	62.40
84044	Stainless	10/50	102.00	88.40
84044-40	Deluxe Stainless	10/50	123.00	106.60
89044	Brass Anodized Alum.	10/50	90.00	78.00

LEVITON SPECIFICATION GRADE AC QUIET AND T-RATED SWITCHES

BACK & SIDE WIRED AC QUIET SWITCH — STANDARD TOGGLE



No. 53501

- Meets U.L., NEC, & Fed. Spec. W-S-896c requirements.
- Designed to Withstand High Inductive Fluorescent Loads — approved for full-rated capacity on tungsten filament and inductive (fluorescent) lamp loads; up to 80% of rating for motor control.
- Captive Mounting Screws — speeds installation.
- Large Silver-Alloy Contact Points.
- Large Brass Screw Terminals — Backed-out & Staked, accommodate up to No. 10 conductors.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
15A-120/277V AC				
			½ H.P. at 120V	
			2 H.P. at 240V	
53501	Single-Pole, Br.	10/100	\$ 99.75	\$ 86.45
53501-I	Single-Pole, Iv.	10/100	102.75	89.05
53502	Double-Pole, Br.	10/50	164.25	142.35
53502-I	Double-Pole, Iv.	10/50	167.25	144.95
53503	Three-Way, Br.	10/100	144.75	125.45
53503-I	Three-Way, Iv.	10/100	147.75	128.05
*53504	Four-Way, Br.	10/50	354.00	306.80
*53504-I	Four-Way, Iv.	10/50	357.00	309.40
53511	Key Sw., S.P.	10/100	179.62	155.67
53513	Key Sw., Three-Way	10/100	209.62	181.67
20A-120/277V AC				
			1 H.P. at 120V	
			2 H.P. at 240V	
53521	Single-Pole, Br.	10/100	\$153.75	\$133.25
53521-I	Single-Pole, Iv.	10/100	156.75	135.85
53522	Double-Pole, Br.	10/50	186.00	161.20
53522-I	Double-Pole, Iv.	10/50	189.00	163.80
53523	Three-Way, Br.	10/100	177.75	154.05
53523-I	Three-Way, Iv.	10/100	180.75	156.65
53524	Four-Way, Br.	10/50	384.00	332.80
53524-I	Four-Way, Iv.	10/50	387.00	335.40
53531	Key Sw., S.P.	10/100	236.62	205.07
53533	Key Sw., Three-Way	10/100	262.12	227.17

SIDE WIRED AC QUIET SWITCH — STANDARD TOGGLE



No. 5501

- Fully enclosed quiet mechanism.
- Two-piece phenolic housing 1¼" wide x 2⅞" long x 1" deep.
- Large silver-alloy contact points.

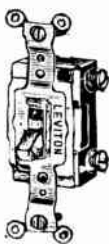


No. 5511

- Large-head brass terminal screws backed-out and staked.
- Listed by Underwriter's Laboratories, Inc.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
15A-120/277V AC only				
5501	AC Quiet Sw., S.P., Br.	10/100	\$ 54.75	\$ 47.45
5501-I	AC Quiet Sw., S.P., Iv.	10/100	57.75	50.05
5502	AC Quiet Sw., D.P., Br.	10/50	91.50	79.30
5502-I	AC Quiet Sw., D.P., Iv.	10/50	94.50	81.90
5503	AC Quiet Sw., 3-Way, Br.	10/100	76.50	66.30
5503-I	AC Quiet Sw., 3-Way, Iv.	10/100	79.50	68.90
5504	AC Quiet Sw., 4-Way, Br.	10/50	244.50	211.90
5504-I	AC Quiet Sw., 4-Way, Iv.	10/50	247.50	214.50
5511	AC Quiet Sw., Key Sw., S.P., Br.	10/100	135.75	117.65
5513	AC Quiet Sw., Key Sw., D.P., Br.	10/100	162.00	140.40
20A-120/277V AC only				
5521	AC Quiet Sw., S.P., Br.	10/100	\$ 86.25	\$ 74.75
5521-I	AC Quiet Sw., S.P., Iv.	10/100	89.25	77.35
5522	AC Quiet Sw., D.P., Br.	10/100	121.50	105.30
5522-I	AC Quiet Sw., D.P., Iv.	10/100	124.50	107.90
5523	AC Quiet Sw., 3-Way, Br.	10/100	108.00	93.60
5523-I	AC Quiet Sw., 3-Way, Iv.	10/100	111.00	96.20
5531	AC Quiet Sw., Key Sw., S.P., Br.	10/100	161.25	139.75
5532	AC Quiet Sw., Key Sw., D.P., Br.	10/100	199.50	172.90
5533	AC Quiet Sw., Key Sw., Three-Way, Br.	10/100	187.50	162.50

SIDE WIRED AC QUIET SWITCH — FRAMED TOGGLE



No. 54501

- Meets U.L., NEC, & Fed. Spec. W-S-896c requirements.
- Designed to Withstand High Inductive Fluorescent Loads — approved for full-rated capacity on tungsten filament and inductive (fluorescent) loads; up to 80% of rating for motor control.
- Captive Mounting Screws — speeds installation.
- Large Silver-Alloy Contact Points.
- Large Brass Screw Terminals — Backed-Out and Staked, accommodate up to #10 conductors.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
15A-120/277V AC				
			½ H.P. at 120V	
			2 H.P. at 240V	
54501	Single-Pole, Br.	10/100	\$ 54.75	\$ 47.45
54501-I	Single-Pole, Iv.	10/100	57.75	50.05
54502	Double-Pole, Br.	10/50	91.50	79.30
54502-I	Double-Pole, Iv.	10/50	94.50	81.90
54503	Three-Way, Br.	10/100	76.50	66.30
54503-I	Three-Way, Iv.	10/100	79.50	68.90
*54504	Four-Way, Br.	10/50	244.50	211.90
*54504-I	Four-Way, Iv.	10/50	247.50	214.50
20A-120/277V AC				
			1 H.P. at 120V	
			2 H.P. at 240V	
54521	Single-Pole, Br.	10/100	\$ 86.25	\$ 74.75
54521-I	Single-Pole, Iv.	10/100	89.25	77.35
54522	Double-Pole, Br.	10/50	121.50	105.30
54522-I	Double-Pole, Iv.	10/50	124.50	107.90
54523	Three-Way, Br.	10/100	108.00	93.60
54523-I	Three-Way, Iv.	10/100	111.00	96.20
*54524	Four-Way, Br.	10/50	309.00	267.80
*54524-I	Four-Way, Iv.	10/60	312.00	270.40

LEVITON SPECIFICATION GRADE AC QUIET AND T-RATED SWITCHES

SIDE WIRED AC QUIET SWITCH —

PUSH TYPE



No. 5571

- Fully enclosed quiet mechanism.
- Two-piece phenolic housing 1¼" wide x 2½" long x 1" deep.
- Large silver-alloy contact points.
- Large-head brass terminal screws backed-out and staked.
- Listed by Underwriters' Laboratories, Inc.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5571	Single-Pole, Br.	10/100	\$ 69.00	\$ 59.80
5571-I	Single-Pole, Iv.	10/100	72.00	62.40
5573	Three-Way, Br.	10/100	100.50	87.10
5573-I	Three-Way, Iv.	10/100	103.50	89.70
5575	Single-Pole, Iv., Lighted Button	10/100	100.50	87.10
5577	Three-Way, Iv., Lighted Button	10/100	130.50	113.10

TOP WIRED MERCURY SWITCH —

STANDARD TOGGLE

10A-124V.T.

5A-250V



No. 5551

- Molded of brown phenolic with heavy gauge.
- Heavy gauge rust-proof steel plaster-ear strap.
- Large-head No. 8-32 terminal screws backed-out and staked for No. 10 conductor . . . set at an angle and face front, for easy-to-get-at-wiring.
- Lev-O-Lite switch available with lighted toggle.
- (No. 5561) . . . tiny built-in neon bulb lasts indefinitely.
- Listed by Underwriter's Laboratories, Inc.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5551	Single-Pole Mercury Sw., Br.	10/100	\$ 89.25	\$ 77.35
5551-I	Single-Pole Mercury Sw., Iv.	10/100	92.25	79.95
5553	Three-Way Mercury Sw., Br.	10/100	160.50	139.10
5553-I	Three-Way Mercury Sw., Iv.	10/100	163.50	141.70
5561	Single-Pole Lev-O-Lite Sw.	10/100	127.50	110.50
5563	Three-Way Lev-O-Lite Sw.	10/100	196.50	170.30

TOP WIRED T-RATED SWITCH —

STANDARD TOGGLE

10A-125V.T.

5A-250V



No. 5001

- One-piece heavy-sectioned phenolic.
- Switch mechanism with built-in snuffer action; double wiping contacts.
- Heavy-gauge steel strap with wide break-off plaster ears.
- Large-head terminal screws set at angle on top accommodate No. 10 conductor.
- Listed by Underwriter's Laboratories, Inc.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5001	Single-Pole Sw., Br.	10/100	\$ 33.00	\$ 28.60
5001-I	Single-Pole Sw., Iv.	10/100	36.75	31.85
5003	Three-Way Sw., Br.	10/100	48.75	42.25
5003-I	Three-Way Sw., Iv.	10/100	51.75	44.85

LEVITON 3-WIRE GROUNDING DEVICES

15A-125V

3-WIRE GROUNDING OUTLET



No. 5088



No. 5096

- Green grounding screws integral with strap.
- Wire wells for back wiring, binding screws for side wiring.
- 2-piece, heavy-sectioned phenolic housing . . . double-wiping contacts . . . large-head binding screws (backed-out and staked) . . . rust-proof straps . . . captive mounting screws.
- Listed by U.L., meets Fed. Spec. W-C-596 and W-C-596a.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5014	Duplex, Side Wired, Br.	10/100	\$ 41.25	\$ 35.75
5014-I	Duplex, Side Wired, Iv.	10/100	44.25	38.35
5015	Single, Side Wired, Br.	10/100	39.00	33.80
5015-I	Single, Side Wired, Iv.	10/100	42.00	36.40
5088	Single, B&S Wired, Br.	10/100	48.00	41.60
5088-I	Single, B&S Wired, Iv.	10/100	51.75	44.85
5096	Duplex, B&S Wired, Br.	10/100	63.00	54.60
5096-I	Duplex, B&S Wired, Iv.	10/100	66.75	57.85

LEVITON 3-WIRE GROUNDING DEVICES



No. 5089



No. 5098

**15A-250V
3-WIRE GROUNDING OUTLETS**

- Break-off fin for easy 2-circuit conversion.
- Green grounding screws integral with strap.
- 2-piece, heavy-sectioned phenolic housing . . . double-wiping contacts . . . double-wiping binding screws (backed-out and staked) . . . rust-proof straps . . . captive mounting screws.

• Listed by U.L., meets Fed. Spec. W-C-596 and W-C-596a.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5028	Duplex, Side Wired, Br.....10/100		\$ 54.75	\$ 47.45
5028-I	Duplex, Side Wired, Iv.....10/100		57.75	50.05
5029	Single, Side Wired, Br.....10/100		39.00	33.80
5029-I	Single, Side Wired, Iv.....10/100		42.00	36.40
5089	Single, B&S Wired, Br.....10/100		48.00	41.60
5089-I	Single, B&S Wired, Iv.....10/100		51.75	44.85
5098	Duplex, B&S Wired, Br.....10/100		63.00	54.60
5098-I	Duplex, B&S Wired, Iv.....10/100		66.75	57.85

15A-277V

3-WIRE GROUNDING OUTLETS



No. 5585

- Wire wells for back-wiring, binding screws for side wiring.
- 2-piece, heavy-sectioned phenolic housing . . . double-wiping contacts . . . large-head binding screws (backed-out and staked) . . . rust-proof straps . . . captive mounting screws.

• Green grounding screw integral with strap. • Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5585	Duplex, B&S Wired, Br.....10/100		\$ 162.75	\$ 141.05

20A-125V

3-WIRE GROUNDING OUTLETS



No. 5801



No. 5800

- Break-off fin for easy 2-circuit conversion.
- 2-piece, heavy-sectioned phenolic housing . . . double-wiping contacts . . . large-head binding screws (backed-out and staked) . . . rust-proof straps . . . captive mounting screws.

• Green grounding screws integral with strap. • Underwriters' Laboratories listed.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5800	Duplex, Side Wired, Br.....10/100		\$ 56.25	\$ 48.75
5800-I	Duplex, Side Wired, Iv.....10/100		59.25	51.35
5801	Single, Side Wired, Br.....10/100		48.00	41.60
5801-I	Single, Side Wired, Iv.....10/100		51.00	44.20

20A-250V

3-WIRE GROUNDING OUTLETS



No. 5823



No. 5824

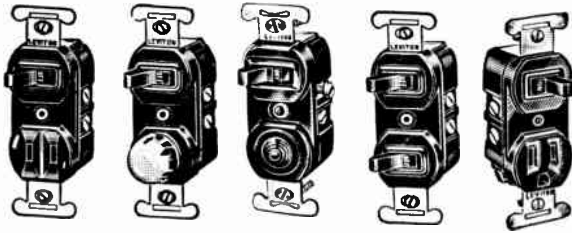
- Designed to new NEMA Configuration No. 6-20.
- Meets all Federal, ASA, NEC requirements.
- Double wipe bronze contacts.
- Easy-to-use break-off fins for 2-circuit wiring.
- Accommodate up to No. 10 aluminum or copper conductor.
- Grounding and terminal screws backed-out and staked.
- Captive mounting screws.

• Rust-resistant steel mounting straps. • Underwriters' Laboratories listed.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5821	Single, Side Wired, Br.....10/50		\$ 75.00	\$ 65.00
5821-I	Single, Side Wired, Iv.....10/50		78.00	67.60
5822	Duplex, Side Wired, Br.....10/50		127.50	110.50
5822-I	Duplex, Side Wired, Iv.....10/50		130.50	113.10
5823	Single, B&S Wired, Br.....10/50		85.50	74.10
5823-I	Single, B&S Wired, Iv.....10/50		88.50	76.70
5824	Duplex, B&S Wired, Br.....10/50		127.50	110.50
5824-I	Duplex, B&S Wired, Iv.....10/50		130.50	113.10

LEVITON COMBINATION DEVICES

COMBINATION DEVICES FEATURING AC QUIET SWITCHES



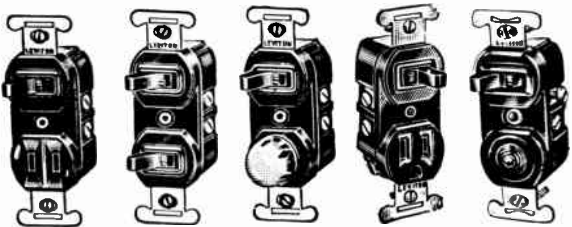
No. 5222 No. 5223LB No. 5226 No. 5224 No. 5225

Ratings: Switches: 15A-120V AC
 Switches: 15A-120/277V AC
 Outlets: 15A-125V
 Incand. Pilot: 75W-125V
 Neon Pilot: 1/25W-125V

- Terminal Screws backed-out and staked.
- Double-wipe contacts.
- Captive mounting screws.
- Listed by U.L.
- Convenient "Break-Off Fins" for Separate Feed Installations.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5222	S.P. Sw. & Outlet, Br.	10/100	\$74.25	\$64.35
5222-I	S.P. Sw. & Outlet, Iv.	10/100	83.25	72.15
5225	S.P. Sw. & U-Grd. Outlet, Br.	10/100	127.50	110.50
5225-I	S.P. Sw. & U-Grd. Outlet, Iv.	10/100	136.50	118.30
5223LB	S.P. Sw., Incand. Pilot Light, Br.	10/100	88.50	76.70
5223LB-I	S.P. Sw., Incand. Pilot Light, Iv.	10/100	97.50	84.50
5226	S.P. Sw., Neon Pilot Light, Br.	10/100	94.50	81.90
5226-I	S.P. Sw., Neon Pilot Light, Iv.	10/100	103.50	89.70
5224	2 S.P. Switches, Br.	10/100	96.00	83.20
5224-I	2 S.P. Switches, Iv.	10/100	105.00	91.00
5241	3-Way & S.P. Switch, Br.	10/50	127.50	110.50
5241-I	3-Way & S.P. Switch, Iv.	10/50	136.50	118.30
5243	Two 3-Way Switches, Br.	10/50	167.00	145.60
5243-I	Two 3-Way Switches, Iv.	10/50	175.80	152.40
5245	3-Way Sw. & U-Grd. Outlet, Br.	10/50	165.00	133.10
5245-I	3-Way Sw. & U-Grd. Outlet, Iv.	10/50	184.00	150.80

COMBINATION DEVICES FEATURING T-RATED SWITCHES



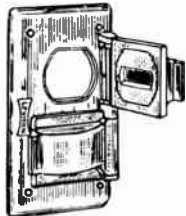
No. 5211 No. 5212 No. 5213 No. 5219 No. 5227

Ratings: Switches: 10A-125V.T. 5A-250V
 Outlets: 15A-125V
 Incand. Pilot: 75W-125V
 Neon Pilot: 1/25W-125V

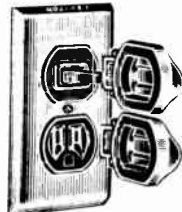
- Terminal Screws backed-out and staked.
- Double-wipe contacts.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5211	S.P. Sw., Outlet, Same Feed	10/100	\$48.75	\$45.25
5211-I	S.P. Sw., Outlet, Same Feed, Iv.	10/100	57.75	50.05
5221	S.P. Sw., Outlet, Sep. Feed	10/100	51.75	44.85
5221-I	S.P. Sw., Outlet, Sep. Feed, Iv.	10/100	60.75	52.65
5219	S.P. Sw., U-Grd., Outlet, Same Feed ..	10/100	103.50	89.70
5219-I	S.P. Sw., U-Grd., Outlet, Same Feed, Iv.	10/100	112.50	97.50
5220	S.P. Sw., U-Grd., Outlet, Sep. Feed ..	10/100	104.25	90.35
5220-I	S.P. Sw., U-Grd., Outlet, Sep. Feed, Iv.	10/100	113.25	98.15
5213LB	S.P. Sw., Incand. Pilot Light	10/100	63.00	54.60
5213LB-I	S.P. Sw., Incand. Pilot Light, Iv.	10/100	72.00	62.40
5227	S.P. Sw., Neon Pilot Light	10/100	87.00	75.40
5227-I	S.P. Sw., Neon Pilot Light, Iv.	10/100	96.00	83.20
5212	2 S.P. Sw., Same Feed	10/100	51.75	44.85
5212-I	2 S.P. Sw., Same Feed, Iv.	10/100	60.75	52.65
5214	2 S.P. Sw., Sep. Feed	10/100	54.00	46.80
5214-I	2 S.P. Sw., Sep. Feed, Iv.	10/100	63.00	54.60
5215	S.P. & 3-Way Sw., Same Feed	10/50	90.00	78.00
5215-I	S.P. & 3-Way Sw., Same Feed, Iv.	10/50	99.00	85.80
5216	S.P. & 3-Way Sw., Sep. Feeds	10/50	93.75	81.25
5216-I	S.P. & 3-Way Sw., Sep. Feeds, Iv.	10/50	102.75	89.05
5217	Two 3-Way Sw., Same Feed	10/50	99.00	85.80
5217-I	Two 3-Way Sw., Same Feed, Iv.	10/50	108.00	93.60
5218	Two 3-Way Sw., Sep. Feed	10/50	99.00	85.80
5218-I	Two 3-Way Sw., Sep. Feed, Iv.	10/50	108.00	93.60

LB — Less Bulb



No. 4922



No. 4929



No. 4926



No. 4925

LEVITON WEATHERPROOF PLATES

- Provide positive shield against dirt, dust and moisture.
- Each plate individually packaged with mounting screws and rubber gaskets.
- Available with stay-open or self-closing covers.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
4925	Stay Open Cover, Sgl. Device	1/50	\$79.50	\$68.90
4925-2	Self-Closing Cover, Sgl. Device	1/50	79.50	68.90
4926	1 Self-Closing Cover, Dupl. Device	1/50	142.50	123.50
4929	2 Stay-Open Covers, Dupl. Device	1/50	126.00	109.20
4929-2	2 Self-Closing Covers, Dupl. Device	1/50	126.00	109.20
*4942	Heavy-Duty, 3 Position Covers, Duplex Device — Type FS Box	1/50	165.00	143.00
*4943	Heavy-Duty, 3 Position Covers, Duplex Device — Std. Gem Box	1/50	142.50	123.50

*U.L. Listed

LEVITON 3-WIRE GROUNDING DEVICES

15A-125V ARMORED PLUG & CONNECTOR



No. 5009



No. 5006

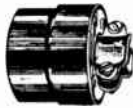
- Adjustable, cord clamp.
- Accept cords from .260 to .531 diameter.
- Double-wipe contacts.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5006	Armored Connector	10/50	\$ 85.50	\$ 74.10
5009	Armored Plug	10/100	39.00	33.80

15A-125V RUBBER PLUG & CONNECTOR



No. 5384

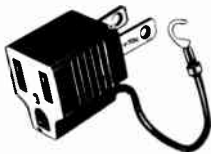


No. 5385

- Heavy-duty impact and water resistant rubber construction.
- Adjustable cord clamp.
- Terminal screws backed-out and staked.
- Accepts cords from .312 to .625 dia.
- Double-wipe contacts.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5384	Rubber Plug, Black	10/100	\$ 39.00	\$ 33.80
5385	Rubber Connector, Black	10/100	85.50	74.10
5386	Plug & Connector Set.....	5/50	108.00	93.60

15A-125V ADAPTORS



No. 274



No. 174



No. 5017

- Converts any standard 2-wire parallel outlet to a 3-wire grounded outlet.
- U.L. listed.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
174	Black Phenolic, 1 1/2" Dia.....	10/100	\$ 18.00	\$ 15.60
274	Gray Vinyl	10/100	18.00	15.60
5017	Black Phenolic, 1 1/2" Dia.....	10/100	26.25	22.75

15A-250V ARMORED PLUG & CONNECTOR



No. 5046



No. 5037

- Adjustable cord clamp.
- Double-wipe contacts.
- Terminal screws backed-out and staked.
- Accepts cords from .312 to .625 dia.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5037	Armored Connector	10/50	\$ 85.50	\$ 74.10
5046	Armored Plug	10/100	40.50	35.10

15A-250V RUBBER PLUG



No. 5057

- Molded in black rubber.
- Terminal screws backed-out & staked.
- Heavy duty construction.
- Plated steel cord clamp.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5057	.312-.468 Cord Dia.....	10/100	\$ 39.00	\$ 33.80
5057-2	.625 Cord Dia.....	10/100	\$ 39.00	\$ 33.80

15A-277V ARMORED PLUG



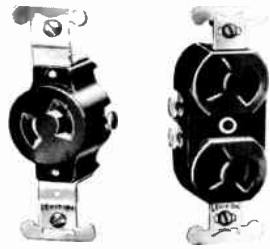
No. 5586

- Adjustable cord clamp.
- Accepts cords from .312" to .625" dia.
- Terminal screws backed-out & staked.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5586	Steel Armored Plug.....	10/50	\$ 65.25	\$ 56.55

LEVITON "LEV-O-LOCK" DEVICES

10A-250V, 15A-125V 2-WIRE LOCKING DEVICES



No. 5121



No. 5141



No. 5102



No. 5112

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Listed by U.L.

- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5102	Armored Plug with Clamp.....	10/50	\$ 44.25	\$ 38.35
5103	Rubber Plug with Clamp.....	10/100	38.62	33.47
5112	Armored Connector with Clamp	10/100	62.62	54.27
5121	Single Outlet, Black.....	10/50	52.87	45.82
5141	Duplex Outlet, Black.....	10/50	97.50	84.50

20A-250V 2-WIRE LOCKING DEVICES



No. 5161



No. 5159



No. 5166

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Listed by U.L.

- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5159	Armored Plug with Clamp.....	10/30	\$ 49.50	\$ 42.90
5161	Single Outlet, Black.....	10/50	60.00	52.00
5166	Armored Connector with Clamp	10/50	84.00	72.80

15A-125/250V 3-WIRE LOCKING DEVICES



No. 5152



No. 5155



No. 5151



No. 5156

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Listed by U.L.

- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5150	Rubber Plug with Clamp.....	10/100	\$ 66.75	\$ 57.85
5151	Armored Plug with Clamp.....	10/50	70.87	61.42
5152	Single Outlet, Black.....	10/50	129.00	111.80
5155	Duplex Outlet, Black.....	10/50	203.25	176.15
5156	Armored Connector with Clamp	10/50	123.75	107.25

15A-125V 3-WIRE LOCKING DEVICES



No. 5185



No. 5186

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Listed by U.L.

- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5185	Duplex Outlet, B&S Wired.....	10/50	\$192.75	\$167.05
5186	Armored Plug with Clamp.....	10/50	64.50	55.90

LEVITON "LEV-O-LOCK" DEVICES

20A-125/250V 3-WIRE LOCKING DEVICES



No. 5175



No. 5171



No. 5176

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5171	Armored Plug with Clamp.....	10/30	\$106.12	\$ 91.97
5175	Single Outlet, Black.....	10/30	141.75	122.85
5176	Armored Connector with			
	Clamp	10/20	129.00	111.80
5178	Rubber Plug with Clamp.....	10/20	106.12	91.97

30A-250V 3-WIRE LOCKING DEVICES



No. 5181



No. 5180

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5180	Armored Plug with Clamp.....	10/20	\$159.00	\$137.80
5181	Single Outlet, Black	10/20	212.25	183.95

20A-250V, 10A-600V AC 4-WIRE LOCKING DEVICES



No. 5195



No. 5190



No. 5182

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5182	Armored Plug with Clamp.....	10/20	\$141.75	\$122.85
5190	Armored Connector with			
	Clamp	10/20	219.75	190.45
5195	Single Outlet, Black.....	10/20	194.25	168.35

LEVITON MIDGET "LEV-O-LOCK" DEVICES

10A-250V, 15A-125V 2-WIRE MIDGET LOCKING DEVICES



No. 5124



No. 5126



No. 5125



No. 5127

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5124	Phenolic Plug, Br.	10/50	\$ 21.37	\$ 18.52
5125	Phenolic Plug with Clamp.....	10/50	29.25	25.35
5126	Two-Piece Phenolic			
	Connector	10/50	42.75	37.05
5127	Two-Piece Phenolic			
	Connector with Clamp.....	10/50	53.25	46.15

10A-250V, 15A-125V 3-WIRE MIDGET LOCKING DEVICES



No. 5130



No. 5132



No. 5131



No. 5133

- Terminal Screws backed-out and staked.
- Heavy-gauge double-wipe contacts.
- Completely interchangeable with other locking devices currently on the market.
- Captive mounting screws.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5130	Phenolic Plug, Brown	10/50	\$ 57.37	\$ 49.72
5131	Phenolic Plug, Clamp	10/50	64.14	55.57
5132	Two-Piece Phenolic			
	Connector	10/50	88.50	76.70
5133	Two-Piece Phenolic			
	Connector with Clamp.....	10/50	99.75	86.45

LEVITON 3-WIRE GROUNDING DEVICES



No. 5802

- Adjustable cord clamp.
- Terminal screws backed-out and staked.
- Accepts cords from .312" to .625- dia.
- Listed by U.L.

20A-125V ARMORED PLUG

Cat. No.	Description	Std. Ctn./Pkg.	Std. Ctn.	Per 100 Std. Pkg.
5802	Steel Armored Plug.....	10/100	\$ 39.00	\$ 33.80

20A-250V ARMORED PLUG AND CONNECTOR



No. 5820



No. 5828

- Heavy-duty construction.
- Double-wipe contacts.
- Adjustable cord clamp.
- Accepts cords from .296" to .625" dia.
- Terminal screws backed-out and staked.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Std. Ctn.	Per 100 Std. Pkg.
5820	Armored Plug	10/50	\$ 57.75	\$ 50.05
5828	Armored Connector	10/50	100.50	87.10

30A-250V and 50A-250V 3-WIRE ATTACHABLE PLUG



No. 287

- Meets both 30 & 50 amp. requirements.
- Self-contained strain-relief.
- Easy to install.
- Supplied with two interchangeable prongs for either 30A or 50A requirements.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Std. Ctn.	Per 100 Std. Pkg.
287	Attachable Plug	1/10	\$135.00	\$117.00

30A-250V 3-WIRE CORD SETS

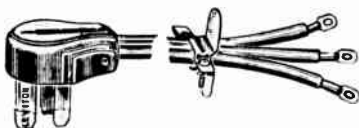


No. 285

- "L" shaped grounding blade.
- Three #10 SRDT wires.
- Plug pressure-welded to conductors.
- Flat Vinyl cable, vinyl plug.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Std. Ctn.	Per 100 Std. Pkg.
285-3	3' long	1/10	\$198.00	\$171.60
385-4	4' long	1/10	223.50	193.70
385-5	5' long	1/10	256.50	222.30
386-6	6' long	1/10	271.50	235.30

50A-250V 3-WIRE CORD SETS



No. 284

- Vertical Grounding Black.
- Two #6 and one #8 SRDT wires.
- Plug pressure-welded to conductors.
- Flat vinyl cable and vinyl plug.
- Listed by U.L.

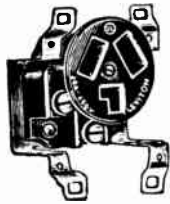
Cat. No.	Description	Std. Ctn./Pkg.	Std. Ctn.	Per 100 Std. Pkg.
284-3	3' long	1/10	\$223.50	\$193.70
284-4	4' long	1/10	264.00	228.80
284-5	5' long	1/10	304.50	263.90
284-6	6' long	1/10	339.00	293.80

LEVITON 3-WIRE GROUNDING DEVICES

30A-250V 3-WIRE GROUNDING OUTLETS



No. 5054



No. 5055



No. 5207

- Heavy duty, double-wipe bronze contacts.
- Convenient lay-in type wiring (except No. 5054).
- Accepts either copper or aluminum conductors.
- Underwriters' Laboratories, Inc. listed.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5054	Surface Type	1/10	\$127.50	\$110.50
5055	Flush Mounted Type.....	1/10	112.50	97.50
5207	Flush Mounted Type.....	1/10	97.50	84.50



No. 5050



No. 5051

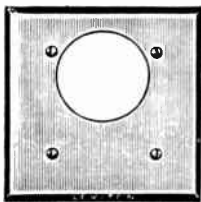


No. 5206

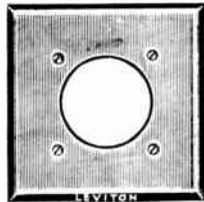
50A-250V 3-WIRE GROUNDING OUTLETS

- Heavy duty, double-wipe bronze contacts.
- Convenient lay-in type wiring.
- Accepts either copper or aluminum conductors.
- Underwriters' Laboratories, Inc. listed.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5050	Surface Type	1/10	\$127.50	\$110.50
5051	Flush Mounted Type.....	1/10	112.50	97.50
5206	Flush Mounted Type.....	1/10	97.50	84.50



No. 11950

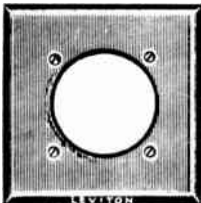


No. 4934

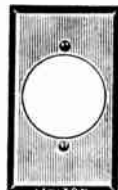
SPECIAL WALL PLATES FOR 30A & 50A 3-WIRE OUTLETS

TWO GANG (Offset Hole) For Nos. 5051, 5070, 5055, 5069

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
3922	Phenolic, Brown	10/100	\$ 39.00	\$ 33.80
3922-I	Phenolic, Ivory	10/100	46.50	40.30
11950	Steel, Aluminum Finish	10/100	45.00	39.00
11951	Steel, Brass Finish	10/100	45.00	39.00
21950	Brass, Satin Finish.....	10/100	82.50	71.50
63022	Brushed Aluminum	10/100	36.00	31.20
64022	Stainless Steel	10/100	51.00	44.20



No. 4946



No. 4927

TWO GANG (Center Hole) For Nos. 5206, 5207

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
4934	Steel, Aluminum Finish	10/100	\$ 45.00	\$ 39.00
4935	Steel, Brass Finish	10/100	45.00	39.00
4936	Brass, Satin Finish.....	10/100	82.50	71.50
63026	Brushed Aluminum	10/100	36.00	31.20
64026	Stainless Steel	10/100	58.50	50.70

SINGLE GANG (Center Hole) For Nos. 5206, 5207

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
4927	Steel, Aluminum Finish	10/100	\$ 22.50	\$ 19.50
4928	Steel, Brass Finish	10/100	45.00	39.00
63028	Brushed Aluminum	10/100	18.00	15.60
64028	Stainless Steel	10/100	25.50	22.10

- Hole diameter 2 1/8 inches.
- Mounting screws supplied.
- Individually wrapped.
- Available with receptacles.
- Phenolic .100 inch; steel, satin brass and aluminum .040 inch; stainless steel, .030 inch type 430 with satin finish.

LEVITON 4-WIRE GROUNDING DEVICES



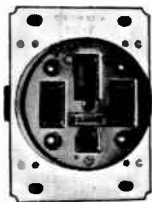
No. 278

- Heavy-gauge double-wipe contacts.
- Convenient lay-in type terminals.
- Solderless terminals accept #10 to #4 conductors.
- Listed by U.L.

Cat. No.
278
55054

30A-125/250V 4-WIRE GROUNDING OUTLET

Description	Std. Ctn./Pkg.	Per 100	
		Std. Ctn.	Std. Pkg.
"L" Slot 4-Wire Outlet.....	1/10	\$300.00	\$260.00
Surface Mounted	1/10	459.00	397.80



No. 279

- Heavy-gauge double-wipe contacts.
- Convenient lay-in type terminals.
- Solderless terminals accept #10 to #4 conductors.
- Listed by U.L.

Cat. No.
279
55050

50A-125/250V 4-WIRE GROUNDING OUTLET

Description	Std. Ctn./Pkg.	Per 100	
		Std. Ctn.	Std. Pkg.
"Straight" Slot 4-Wire Outlet..	1/10	\$300.00	\$260.00
Surface Mounted.....	1/10	549.38	476.13

30A-125/250V 4-WIRE CORD SETS



No. 5434

- "L" shaped grounding blade.
- Four #10 conductors.
- Blades pressure-welded to conductors.
- Vinyl plug molded on to vinyl cable.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5434-3	3' long	1/10	\$423.00	\$366.60
5434-4	4' long	1/10	471.00	408.20
5434-6	6' long	1/5	565.50	490.10

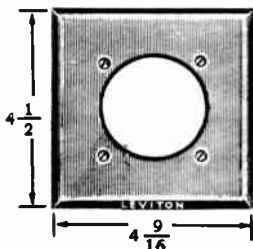
50A-125/250V 4-WIRE CORD SETS



No. 5436

- Straight grounding blade.
- Three #6 and one #8 conductors.
- Blades pressure-welded to conductors.
- Vinyl plug molded on to vinyl cable.
- Listed by U.L.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
5436-3	3' long	1/10	\$586.50	\$508.30
5436-4	4' long	1/10	691.50	599.30
5436-6	6' long	1/5	840.00	728.00



No. 4946

SPECIAL WALL PLATES FOR 30A & 50A 4-WIRE DEVICES

- .040 Brass — satin finish with permanently bonded clear protective coating.
- .040 Steel — either aluminum baked enamel or brass baked lacquer finish.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
4944	Steel with Aluminum Finish ..	10/100	\$ 45.00	\$ 39.00
4945	Steel with Brass Finish	10/100	45.00	39.00
4946	Solid Brass	10/100	75.00	65.00

LEVITON PORCELAIN OUTLET BOX RECEPTACLES



No. 49816



No. 49875

- Fits both 3 1/4" or 4" boxes.
- Terminal Screws backed-out and staked.
- Listed by U.L.



No. 9815



No. 9726

660W-250V One Piece, Keyless

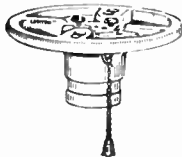
Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
9875	2-Screw Terminals	1/50	\$ 28.50	\$ 24.70
49875	4-Screw Terminals	1/50	30.00	26.00

660W-125V Two Piece, Pull-Chain

9726	2-Screw Terminals, 15A Grd. Outlet.....	1/50	75.00	65.00
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250W-250V Two Piece, Pull-Chain

9816	2-Screw Terminals	1/50	47.25	40.95
29816	2-Screw Terminals, Top Wired	1/50	48.75	42.25
49816	4-Screw Terminals, Top Wired	1/50	50.25	43.55



No. 29816



No. 9875

LEVITON WEATHERPROOF LAMPHOLDERS



No. 124D



No. 157

- Rated 660W-250V.
- Accommodates standard clamp type shadeholder.
- Soldered and sealed for weatherproofing.

Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
124D	Rubber Medium Base, 6" Leads.....	25/250	\$ 21.00	\$ 18.20
157	Phenolic Medium Base, 6" Leads.....	25/250	21.00	18.20

LEVITON FLUORESCENT LAMPHOLDERS



No. 390-1



No. 391-1



No. 395



No. 420

- No. 390-1 — 660W-600V
- No. 391-1 — 660W-600V
- No. 395 — 660W-600V
- No. 420 — 75W-250V
- No. 434 — 660W-600V
- No. 466 — 660W-1000V
- No. 467 — 660W-600V

- Listed by U.L.

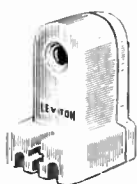
Cat. No.	Description	Std. Ctn./Pkg.	Per 100	
			Std. Ctn.	Std. Pkg.
390-1	F. L. S. Lampholder, Black	10/200	\$ 13.50	\$ 11.70
390-1W	F. L. S. Lampholder, White	10/200	15.00	13.00
391-1	F. L. S. Lampholder and Starter Black	10/200	23.25	20.15
391-1W	F. L. S. Lampholder and Starter White	10/200	24.75	21.45
395	Rapid Start, Screw Mounted	10/200	14.25	12.35
420	Miniature Lampholder	10/200	18.00	15.60
434	Rapid Start, Snap-in Lamp-holder	10/200	17.25	14.95
466	Slimline Pedestal, Secondary, White	10/100	31.50	27.30
467	Slimline Pedestal, Primary, White	10/100	22.50	19.50



No. 434



No. 466



No. 467

G-E- FLUORESCENT STARTERS

WATCH DOG* STARTERS

Metal glow switch units best for general purpose use. Automatic cut-off of failing lamps eliminates blinking. Manual reset button. Outlast 10 ordinary starters.



Cat. No.	per 100	No. terms	size	FS-40/400 lamp watts
FS-20	54.60	2	std	15, 20
FS-30	54.60	2	std	30
FS-40/400	54.60	2	std	40
FS-850	82.55	4	mogul	90, 100
FS-850S	84.50	4	mogul	90, 100
FS-852	82.55	2	mogul	90, 100

STANDARD STARTERS

All-purpose starters accurately timed to combine efficient starting with long lamp life. Automatic or manual reset features not included.



Cat. No.	per 100	No. terms	size	FS-4 lamp watts
FS-2	19.50	2	std	14, 15, 20
FS-4*	19.50	2	std	13, 30, 40
FS-5	31.20	2	std	4, 6, 8
FS-12	21.45	2	std	32 (12" Circline)
FS-25	28.60	2	std	25, 22 (8" Circline)
FS-85	72.15	2	mogul	90, 100
FS-44*	72.15	4	mogul	40
FS-64*	97.50	4	mogul	90, 100

AUTOMATIC RESET STARTERS

Automatic cut-off eliminates blinking. Automatically resets itself when power is cut off. Use where high temperature, high humidity or other environmental conditions make the normal operation of fluorescent lamps difficult.



Cat. No.	per 100	No. terms	size	FS-4/400NA lamp watts
FS-4/400NA	57.20	2	std	40
FS-85NA	82.55	2	mogul	90, 100
FS-85NA-4	82.55	4	mogul	90, 100

*For reliable starting down to an ambient temperature of 0 F.
*Registered Trademark of General Electric Co.

G-E- FLUORESCENT LAMPHOLDERS



78X354



502X63

MEDIUM BI-PIN LAMPHOLDERS

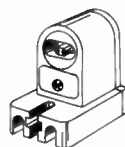
Cat. No.	per 100	Description	Rating
78X354	13.98	black	660W, 600V
78X491	18.20	white urea	Same
505X75	46.80	white, disconnect type	Same
505X84	91.00	white, telescopic type, (low voltage end)	Same
505X85	133.90	white, telescopic type, (high voltage end)	Same
78X729	36.40	comb. lamp-holder/starter socket, black	Same
78X736	37.70	same, white urea lampholder, black socket.	Same

SLIMLINE LAMPHOLDERS

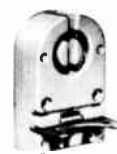
502X63	37.38	low-voltage	660W, 600V
502X64	41.60	high-voltage	660W, 1000V

All listed by Underwriters' Laboratories, Inc.

G.E. FLUORESCENT LAMPHOLDERS



505X92



95X982



ALF812-02

RAPID-START HIGH-OUTPUT LAMPHOLDERS

Cat. No.	per 100	Description	Rating
505X91	114.40	compressible end	660W, 600V
505X92	91.00	stationary end	660W, 600V

MOGUL BI-PIN LAMPHOLDERS

95X982	58.50	white urea	660W, 600V
95X123	136.50	comb. lamp-holder/starter socket, white urea lampholder, black socket	660W, 250V

POWER GROOVE LAMPHOLDERS

ALF812-01	111.80	stationary end	660W, 600V
ALF812-02	117.00	telescopic end	660W, 600V

HUB FLUORESCENT STARTERS

PUSH BUTTON RESET STARTERS

With Ceramic Condensers

Will outlast several regular starters. Has circuit breaker element. Stops lamp blinking, saves electricity, ballast and starter. Not affected by low voltage or power failures. After re-lamping, push button on top for continuing operation



Cat. No.	Lamps	Each	Per 100
FS-20	20W	\$0.63	\$54.60
*FS-30	30W	.63	54.60
FS-40	40W	.63	54.60
*FS-400	40W	.66	57.20
FS-40/400	40W	.63	54.60
*FS-850-2 & 4 pins	85W-100W	.95	82.55

AUTOMATIC RESET STARTERS

With Ceramic Condensers

Has a Thermal operated device which cuts a flashing or non-operating lamp out of the circuit. When defective lamp is replaced, starter automatically resets to start new lamp.



Cat. No.	Lamps	Each	Per 100
*FS-20A	20W	\$0.66	\$57.20
FS-40A	40W	.66	57.20
*FS-850A-2 & 4 pin	85W-100W	.95	82.55

REGULAR STARTERS

With Ceramic Condensers

Faster starts and longer life are provided at low cost.



Cat. No.	Lamps	Each	Per 100
FS-2	14W, 15W, 20W	\$0.22	\$19.50
FS-4	30W — 40W	.22	19.50
FS-5	4W, 6W, 8W	.36	31.20
FS-12	32W Circline	.24	21.45
FS-22	22W Circline	.33	28.60
FS-25	18W, 25W	.33	28.60
*FS-85-2 & 4 pin	85W, 100W	.83	72.15

All Hub starters without * are certified by Electrical Testing Laboratories, Canadian Standards Association and Approved by Underwriters' Laboratories.

ARROW-HART SPECIALTY SWITCHES

SHALLOW CANOPY PULL SWITCH

3 Amp. 125 Volts, 1 Amp. 250 Volts



Stem diameter $\frac{13}{32}$ in.; depth, $\frac{3}{16}$ in.; width, $\frac{1}{16}$ in. Switch has 2 1/2-inch chain and 4 ft. black cord with tassel. Six-inch leads are standard. Brass is standard finish. Wash nickel optional at no extra cost.

Mechanism is enclosed in a brass shell and wire leads are secured in the Bakelite section. Pull chain has a special stop feature to prevent breakage.

No. 450

Cat. No.	Description	Cor-ton	Std. Pkg.	Pkg. Wt.
450	Single-Pole	25	100	8

ROTARY CANOPY SWITCHES

3 Amp. 125 Volts, 1 Amp. 250 Volts



No. 7775

Cat. No.	Stem Inches	Cor-ton	Std. Pkg.	Pkg. Wt.
7775	$\frac{3}{16}$	25	100	3
7776	$\frac{5}{16}$	25	100	3
7777	$\frac{3}{16}$	25	100	3

Have 6 inches of No. 18 stranded fixture wire. Wires up to and including 8 inches supplied without extra charge. Switches with longer wires supplied on special order at the usual advance in price. Standard finish on exposed metal is brass, but wash nickel, bronze or black will be supplied without extra charge when specified.

ROTARY CANOPY SWITCHES

With Fixed Metal Handles

3 Amp. 125 Volts, 1 Amp. 250 Volts



No. 7784

Cat. No.	Stem Inches	Cor-ton	Std. Pkg.	Pkg. Wt.
7783	$\frac{3}{16}$	25	100	4
7784	$\frac{3}{16}$	25	100	4
7785	$\frac{3}{16}$	25	100	4

ROTARY LOCK SWITCH

Midget Size



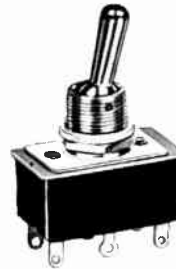
Slow-make and break. DPST — 4 position; on-off-on-off. 20 Amp-120-240 Volts AC, 1 1/2 HP-120 Volts AC, 2 HP-240 Volts AC. $\frac{37}{64}$ " slotted sleeve ($\frac{15}{32}$ " dia. — 32 threads per inch). Molded Bakelite base, back connected contacts. Current carrying parts are silver plated. Key removable in off position only.

Applications: Industrial tools, electronic equipment as a power switch, computers, any area where security is desired.

Arrow-Hart No.	Description	Sleeve
82787-LA	DPST	$\frac{37}{64}$ "

TOGGLE SWITCHES

Intermediate Size



DPDT. 2 position — positive action — back connected. Ball lever, solder lugs. 3 Amp-250 Volts AC-DC, 6 Amp-125 Volts AC-DC. $\frac{15}{32}$ " sleeve length. Molded phenolic base. One hex nut and one knurled nut assembled. Nickel finish.

Applications: Instrumentation, computers, ground support equipment for aircraft missiles.

Arrow-Hart No.	Description	Sleeve
81015-AW	SPST	$\frac{15}{32}$ "
81021-AV	SPDT	
81024-8P	DPST	
81027-CE	DPDT	

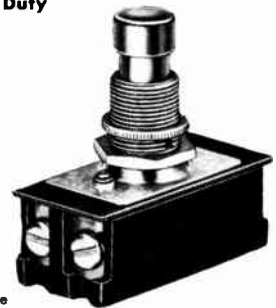
DOUBLE ACTION PUSH SWITCH

Standard Duty

DPST. 8 Amp-250 Volts, 16 Amp-125 Volts. 1 HP-125, 250 Volts AC-DC. Molded phenolic base. Slotted sleeve $\frac{15}{32}$ " dia. 32 threads per inch. Plain top on button. Available with either wire leads or screw terminals. One hex nut and one knurled nut. Assembled — nickel finish.

Applications: Industrial and heavy duty vacuum cleaners, foot switches, machine tools.

Arrow-Hart No.	Description	Sleeve
80863	DPST Double Action (Push, push)	$\frac{15}{16}$ "



MOMENTARY PUSH SWITCHES

Midget Size



Slow make and break. SPST — normally open. 3 Amp-120 Volts AC, 1/10 HP-120 Volts AC. Molded phenolic base. Slotted sleeve $\frac{15}{32}$ " dia., 32 threads per inch, concave nickel finished button. Solder lug. One hex nut and one knurled nut assembled.

Applications: Door switches, vending machines, instruments, fans, computers, dispensing equipment.

Arrow-Hart No.	Description	Sleeve
80511-CE	Solder Lug	$\frac{15}{16}$ " long
80512-CE	Wire Lead	
80513-CE	Screw Terminals	
80514-CE	Quick Connect	

TOGGLE SWITCHES

Heavy Duty

DPST. 10 Amp-250 Volts, 20 Amp-125 Volts AC-DC, 1 1/2 HP-125, 250 Volts AC-DC. Molded phenolic base. Slotted sleeve $\frac{15}{32}$ " dia., 32 threads per inch. One hex nut and one knurled nut assembled — nickel finish. Ball lever or Bat lever. Screw terminals.

Applications: Portable tools, machine tools, automotive and aircraft equipment, computers, repair shops.

Arrow-Hart No.	Description	Lever
80602	DPST	Ball
80602-CA	DPST	Bat



Contact Graybar for complete pricing information.

ARROW-HART SPECIALTY SWITCHES

TOOL HANDLE SWITCH

Standard Duty



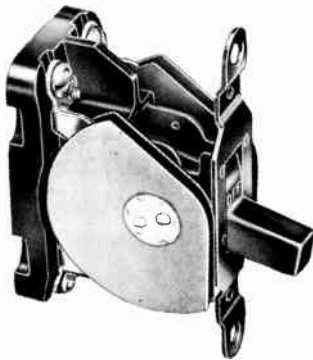
Quick-make and Quick-break. DP momentary contacts. 8 Amp-250 Volts, 16 Amp-125 Volts. 1 HP-125-250 Volts. Extended pressure lever — lock latch and wrap-around shield. Bakelite base. Binding screw contacts.

Applications: Portable welder guns and all portable industrial tools.

Arrow-Hart No. **80615-DW**
Description
DPST
Momentary
Normally OFF

TUMBLER SWITCH

Heavy Duty

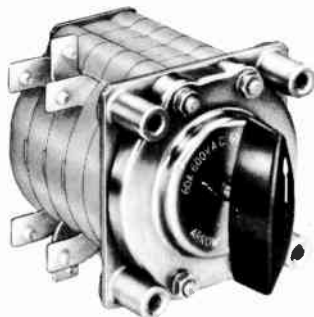


Quick-make - Quick-break. DPST. 20 Amp-600 Volts, 30 Amp-250 Volts. 2 HP-250-600 Volts. Square lever. Base is molded Bakelite. Binding screw contacts. Ears for flush mounting.

Applications: Food machinery, machine tools.

Arrow-Hart No. **80093**
Description
DPST
Quick-make
Quick-break

ROTARY SWITCH



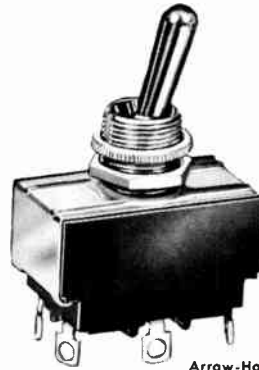
TPDT. Single break. 60 Amp-600 Volts AC, 60 Amp-250 Volts DC. 3/8" dia. spindle with black Bakelite handle. Indicating plate-1-OFF-2.

Applications: Due to variety of circuits available uses include machine tools, gasoline engine generator sets, panelboards, test equipment and locomotives.

Arrow-Hart No. **81960-SCL**
Description
TPDT

TOGGLE SWITCHES

Utility Size



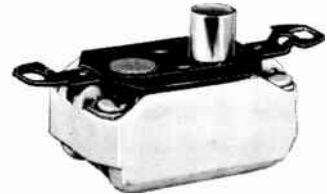
Slow make and break. DPDT. 3 Position (on-off-on). 10 Amp-250 Volts AC, 15 Amp-125 Volts AC. 3/4 HP-120-240 Volts AC. Molded phenolic base. Slotted sleeve 1/32" dia. 32 threads per inch. One hex nut, one knurled nut. Supplied in bulk. Bat lever. Solder terminals or screw and Amp available.

Applications: Fractional horsepower (3/4) motors, machine tools, portable tools, movie projectors, appliances, room cooling and heating apparatus.

Arrow-Hart No. **82606**
82608
82610
Description
DPST — 2 Position (ON-OFF)
DPDT — 3 Position (ON-OFF-ON)
DPDT — 2 Position (ON-ON)

PUSH BUTTON SWITCH

Large Size



Quick-make - Quick-break. DPST. 20 Amp-250 Volts, 2 HP-230 Volts AC, 2 HP-250 Volts DC. Made either normally open or normally closed. Shallow porcelain base, ears for flush mounting. Made with binding screw contacts. Metal push button.

Applications: Industrial floor machines — sanders and polishers.

Arrow-Hart No. **80050**
Description
DPST Quick-make Quick-break

TUMBLER SWITCH

Heavy Duty



Quick-make - Quick-break. Three pole. Single throw. 30 Amp-250 Volts, 20 Amp-600 Volts, 2 HP-115-575 Volts AC 3 Phase. Molded Bakelite base. Ears for flush mounting. Maintained or momentary contacts. Bakelite lever. Switches are indicating.

Applications: Welders, lighting panels, 3-Phase motors.

Arrow-Hart No. **80104**
Description
Three Pole — Single Throw
Quick-make and Quick-break

TOGGLE SWITCHES

Extra Heavy Duty



3 position — positive center off. DPDT, 3PDT, 4PDT. 5 Amp-250 Volts, 10 Amp-125 Volts, 3/4 HP-250 Volts AC-DC. Molded phenolic base. Slotted sleeve 3/4" dia., 32 threads per inch. Supplied with two hex nuts — nickel finish. Screw terminals only.

Applications: Where strong motor reversing switch is required, i.e. machine tools, portable tools, heating and cooling equipment.

Arrow-Hart No. **80638-D**
80983
80985
Description
DPDT
3PDT
4PDT

Contact Graybar for complete pricing information.

McGILL LEVOLIER SWITCHES

Underwriters' Laboratories, Inc. Listed. CSA Approved.
PULL CHAIN — SINGLE CIRCUIT



3 Amp. "T," 125V—1 Amp., 250V

Especially durable, yet inexpensive 3 Amp., 250 Volt switch with single pole, double break mechanism, enclosed in plastic case. 6 in. wire leads secured to terminals by pressure connections — no soldered terminals. Equipped with 6 ft. cord and bell. Size 1 x 1 1/4 inches.

Cat. No.	Stem, Inches Diam. Length	Carton	Std. Pkg.	Pkg. Wt.	Per 100
21	3/8 1/2	10	100	7	\$89.10

LEVER OPERATED — SINGLE CIRCUIT

10 Amp. "T," 125 Volt—5 Amp., 250 Volt



Smallest 10 Amp. pull switch made yet the No. 1010 has the ability to withstand the same loads as switches much larger in size. Single pole double break mechanism with 6 ft. cord and bell. 1-piece molded phenolic casing.

Cat. No.	Stem, Inches Diam. Length	Carton	Std. Pkg.	Pkg. Wt.	Per 100
1010	1/2 3/8	10	100	20	\$231.00
1010-L	1/2 3/8	10	100	20	239.25

LEVER OPERATED — SINGLE CIRCUIT

6 Amp. "T," 125 Volt—3 Amp., 250 Volt

The No. 71 is the thinnest, 3/8", 6 Amp., 125 Volt—3 Amp., 250 Volt "T" rated switch made. Plastic cased with 6-in. wire leads.



Cat. No.	Stem, Inches Diam. Length	Carton	Std. Pkg.	Pkg. Wt.	Per 100
71	3/8 3/2	10	100	8 1/2	\$99.00

LEVER OPERATED — SINGLE CIRCUIT

6 Amp. "T," 125 Volt—3 Amp., 250 Volt



Only 3/8 inch thick the No. 41 is one of the smallest 6 amp. 125 volt pull switches made, yet has unusual capacity, dependability and long life. Single pole, double break mechanism, equipped with 6 ft. cord or plain lever control. Standard finish nickel.

Cat. No.	Stem, Inches Diam. Length	Carton	Std. Pkg.	Pkg. Wt.	Per 100
41	7/8 3/8	10	100	8	\$99.00
42	7/8 3/4	10	100	8	112.20
43	7/8 3/4	10	100	8	113.85
39 W/Mounting Link		10	100	13 1/2	130.35

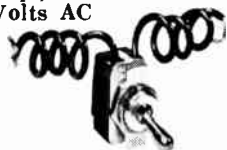
No. 41 with brass case add \$12.00 per 100.

McGILL TOGGLE SWITCHES
SINGLE POLE

8 Amp., 125 Volts; 4 Amp., 250 Volts
1/2 HP, 125-250 Volts AC

Ideal for panel board and appliances, tools and FHP motors, etc.

The brown molded phenolic case is dust and vibration proof. Nickel finish.



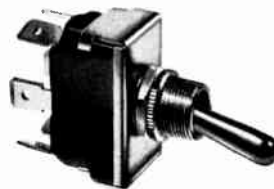
Cat. No.	Description	Per 100
4125-0001	With Screw Terminals	\$72.60
4125-0002	With Soldering Lugs	69.30
4125-0003	With Spade Terminals	69.30
4125-0004	With Wire Leads	66.00

Carton 10. Standard Package 100. Weight 6 lbs.

McGILL
DOUBLE POLE TOGGLE SWITCHES

Underwriters' Laboratories, Inc., Listed. CSA Approved.

20 Amp., 125 Volts AC; 10 Amp., 250 Volts AC

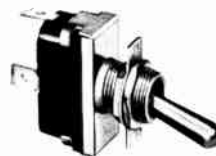


No. 0111-0011

No. 0111 Series are available in a variety of circuit controls with basic ratings of 20 amp., 125 volts AC and 10 amp., 250 volts AC 1 H.P. 125-250 VAC. Also rated 20 amp., 250 volts for non-inductive load and acceptable at 10 amp., 125 volts AC "L" for Tungsten load. These switches feature silver cadmium oxide inlaid contacts and impact resistant molded phenolic housing. Available with solder lugs, spade or screw terminals. Dimensions .795" x 1.2". Nipple length .468", nipple diameter 3/16".

Cat. No.	Terminals	Per 100	Cat. No.	Terminals	Per 100
DPST*					
DPST—Momentary					
0111-0001	Screw	\$105.60	0111-0005	Screw	\$110.55
0111-0009	Spade	92.40	0111-0013	Spade	102.30
0111-0017	Solder	95.70	0111-0021	Solder	99.00
DPDT—Center Off					
0111-0002	Screw	128.70	0111-0006	Screw	133.65
0111-0010	Spade	105.60	0111-0014	Spade	115.50
0111-0018	Solder	107.25	0111-0022	Solder	115.50
DPDT—No Off					
0111-0003	Screw	128.70	0111-0007	Screw	133.65
0111-0011	Spade	105.60	0111-0015	Spade	110.55
0111-0019	Solder	107.25	0111-0023	Solder	110.55
DPDT—Momentary					
0111-0004	Screw	128.70	*OSO—One Side On; OSM—One Side Momentary. CO—Center Off.		
0111-0012	Spade	108.90	Std. Pkg.—100. Wt. 10 lbs		
0111-0020	Solder	112.20	Cart.—10.		

20 Amp., 125 Volts AC; 10 Amp., 250 Volts AC



No. 90-0003

1 HP 125-250 VAC. Nickel finish with molded phenolic case, 3/8"-32 threaded nipple 3/8" long. Available with screw, solder or spade terminals and a variety of circuit control arrangements.

Cat. No.	Terminals	Per 100	Cat. No.	Terminals	Per 100
SPST					
SPDT—On, Center Off, Momentary					
90-0001	Screw	\$75.90	93-1001	Screw	\$92.40
90-0002	Solder	74.25	93-1002	Solder	85.80
90-0003	Spade	74.25	93-1003	Spade	85.80
SPDT—Center Off					
91-0001	Screw	82.50	93-2001	Screw	75.90
91-0002	Solder	77.55	93-2002	Solder	72.60
91-0003	Spade	77.55	93-2003	Spade	72.60
SPDT—No Off					
92-0001	Screw	82.50	93-3001	Screw	85.80
92-0002	Solder	77.55	93-3002	Solder	80.85
92-0003	Spade	77.55	93-3003	Spade	80.85
SPDT—Momentary					
93-0001	Screw	92.40	93-4001	Screw	94.05
93-0002	Solder	85.80	93-4002	Solder	89.10
93-0003	Spade	85.80	93-4003	Spade	89.10

Carton 10. Standard Package 100. Weight 9 lbs.

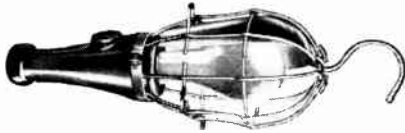
Also available in 6 amp.

McGILL PORTABLE LAMP GUARDS

Underwriters' Laboratories, Inc., Listed. CSA Approved.

5000 SERIES PORTABLE LAMP GUARDS

Phenolic Handle — Closed End Cage — Convenience Outlet



No. 5000-R

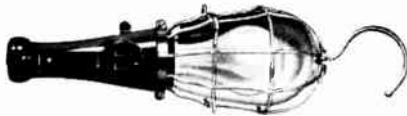
A DeLuxe Portable Lamp Guard with an Underwriters' Approved convenience outlet built into an impact resisting brown phenolic plastic handle. Sturdily constructed with a 15 Amp. 125 volt, 10 Amp. 250 volt outlet, 660 watt, 250 volt lampholder, cord strain relief and cord seal. No-Rol cage.

5000 Series Ungrounded Models

Cat. No.	Description	Wt. Oz. Each	Each
Lamp Size 60-100-w, RS			
5000	Keyless	17	\$4.68
5000-R	With Reflector	20	4.93
5000-S	With Levolver Switch	17	5.27
5000-SR	With Reflector and Levolver Switch	20	5.53

5000 SERIES GROUNDED MODELS

Phenolic Handle — Closed End Cage



No. 5000-SRG

The 5000 series grounded guards offer industry the first completely grounded lamp guard that is equipped with an approved 3-wire convenience outlet. The cage is grounded by means of internal handle construction with a third terminal providing contact with the attached cord.

Convenience Outlet with U Shaped Ground

Cat. No.	Description	Wt. Oz. Each	Each
Lamp Size 60-100-w, RS			
5000-G	Keyless	19	\$5.61
5000-RG	With Reflector	22	5.87
5000-SG	With Levolver Switch	19	6.21
5000-SRG	With Reflector and Levolver Switch	22	6.46

3006 SERIES PORTABLE LAMP GUARDS

Plastic Handle — Closed End Cage of Steel Wire or Fibre



No. 3007

This strong, portable, sealed lamp guard is watertight, dust-tight and moisture-proof. The plastic handle,

and fibre cage on the No. 3007 are shock-proof and non-sparking.

Cat. No.	Description	Wt. Oz. Each	Each
3006	Large size max. 60-w, Steel Cage, Keyless	35	\$10.88
3006-R	No. 3006 with Reflector	38	11.73
3007	Lamp size max. 60-w, Fibre Cage, Keyless	32	11.73

COMPLETE SERVICE LIGHTS

With Cord and Plug Attached

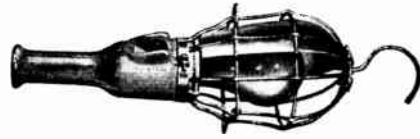
The Lamp Guards listed may be ordered as complete assemblies with either 25 or 50 feet of 18-2 SJ gray rubber cord.

	25' Cord Set	50' Cord Set
Ungrounded Models	\$2.80	\$4.84
Grounded Models	5.51	7.57

Also available with yellow handles and cord.

7000 SERIES PORTABLE LAMP GUARDS

Neoprene-Butyl Handle — Closed End Cage



No. 7000-SR

Gray, neoprene-butyl handle equipped with 660 watt, 250 volt lampholder. Electrically welded steel wire cage with No-Rol feature, heavily zinc plated.

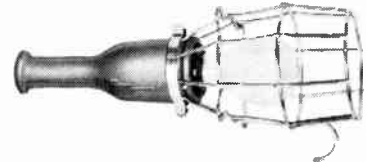
7000 Series Ungrounded Models

Cat. No.	Description	Wt. Oz. Each	Each
Lamp Size 60-100-w, RS			
7000	Keyless	19	\$3.49
7000-R	With Reflector	22	3.74
7000-S	With Levolver Switch	19	4.00
7000-SR	With Reflector and Switch	22	4.25

For grounded models add the suffix "G" to catalog number

Neoprene-Butyl Handle—Open End Cage

An adaptation of the 7000 series, using the same gray Neoprene-butyl handle and 660-watt, 250-volt lampholder. Cage is open end type, heavily zinc plated with chromate finish. Side hook and No-Rol feature.



Cat. No.	Description	Wt. Oz. Each	Each
Lamp Size 60-100-w, RS			
7001	Keyless	19	\$3.74
7001-R	With Reflector	22	4.00
7001-S	With Levolver Switch	19	4.25
7001-SR	With Reflector and Switch	22	4.51
7002	Lamp size 200-w Grounded	24	4.85
7002-R	No. 7002 with Reflector	25	6.46

Watertight lampholder No. 4016 available in above keyless portables.

McGILL WIRE LAMP GUARDS

GRIPON NON-LOCKING LAMP GUARDS

Full protection against breakage. Easily detached for lamp renewal. Gripion guards are built of heavily zinc plated steel wire, made to withstand hard use and abuse. For both regular and mill type lamps, brass shell and W.P. sockets. Also available in LOXON Type.



No. 2100

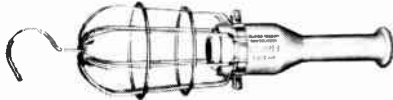
Cat. No.	Lamp Size Watts	Fits Socket	Wt. Lbs. Per Doz.	Each
2075	75	Brass	2½	\$1.21
2075-A	75	W.P. Socket A	2¾	1.05
2075-B	75	W.P. Socket B	3	1.26
2100	100	Brass	3	1.26
2100-A	100	W.P. Socket A	3	1.11
2100-B	100	W.P. Socket B	3½	1.31
2200	200	Brass	4	1.46
2200-A	200	W.P. Socket A	4	1.31
2200-B	200	W.P. Socket B	4¾	1.51

With Reflectors

2075-R	75	Brass	3½	1.55
2075-RA	75	W.P. Socket A	3¾	1.41
2100-R	100	Brass	4½	1.55
2100-RA	100	W.P. Socket A	4¾	1.38

WOODHEAD "SAFETY YELLOW" ELECTRICAL SPECIALTIES

"SAFETY YELLOW" NEOtEX HANDLE



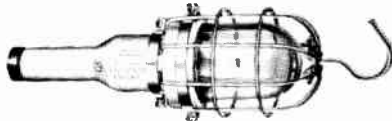
No. 100

PROtEX Portable Lamps are designed to meet exacting safety requirements. The handle and socket are made of oil-proof synthetic "Safety Yellow" NEOtEX rubber, socket is watertight; guard is made of heavy steel wire, spot-welded at all joints and heavily cadmium-plated to prevent rusting. These lamps include handle, socket and guard with hook, and are supplied with or without reflector.

Watts	Std. Pkg.	No Reflector		Open End	
		Cat. No.	Each	Cat. No.	Each
60	30	100	\$4.76	-----	-----
75-100	30	102	4.88	110	\$5.08
200	30	103	5.88	111	5.83
With Reflector					
60	30	104	5.29	-----	-----
75-100	30	106	5.50	114	5.71
200	30	107	6.41	115	6.41

If Ground Clip is desired, so specify, and add \$0.51 to price. If Key Socket is desired, so specify, and add \$0.47 to price. Side outlets also available.

NEOtEX COVERED GUARDS — Add to catalog number of any steel guard without reflector the letter "T" and add to price \$2.45; with reflector, add letter "I" and add to price \$4.02.



No. 1202

VAPROtEX Vaporproof Lamps are recommended for illumination purposes in damp areas or in the presence of gases and dust. Heat and impact resistant glass globes and extra heavy guards seal lighting chamber. "Safety Yellow" NEOtEX handle is oil-proof, impervious to greases and most chemicals. Sealing gland in handle seals out gases, dust and moisture. Available with steel wire guards, non-sparking aluminum guards, or insulated steel guards.

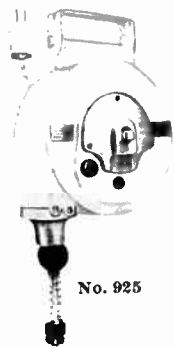
Watts	Std. Pkg.	With Steel Wire Guards		With Non-Sparking Aluminum Guards	
		Cat. No.	Each	Cat. No.	Each
60	12	*1202	\$14.68	*1206	\$20.93
100	12	*1203	42 15.67	*1207	47 21.70

*With sealing gland in handle.

Ground clip for third wire for any of above, type "CLIP." \$0.65 list each.

Vaprotex Wire Guards with NEOtEX Covering — If desired, specify the letter "I" after any of the above wire guard types and add \$4.14.

INDUSTRIAL DUTY ELECTRIC CORD REEL



No. 925

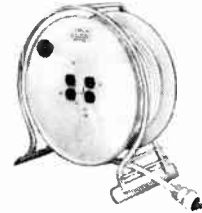
Simple to install, plugs into nearest convenience outlet. Maintenance-free, long life, safe. Provide out-of-the-way storage for drop cord lighting installations in many industrial locations. Heavy duty design and construction will provide years of dependable trouble-free service. Rating: 250 Volts—10 Amperes.

Cat. No.	Cord Reel with*	Std. Pkg.	Std. Pkg. Wt.	Each
925-2	25' #16/2 SJY cord	1	9	\$45.86
925-3	20' #16/3 SJY cord grounded	1	10	48.15
945-2	45' #16/2 SJY cord grounded	1	12	57.33
945-3	35' #16/3 SJY cord grounded	1	13	60.77

*Does not include hand lamps.

No. 910 SAFEWAY PORTABLE CORD REEL

Holds up to 375 feet of Portable cord. Plug end of cord into convenience outlet, carry four live U-blade outlets to work area.



Standard package, 1; weight, 15 lbs.

Cat. No.	Description	Each
910	Reel less cord.....	\$24.37

No. 3000 SERIES SAFEWAY "SAFETY YELLOW" PORTABLE OUTLET BOXES

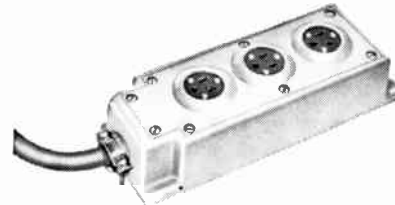


NEOtEX box furnished less receptacles. Affords maximum versatility. Wire with any standard 2- or 3-wire 10A., 15A. or 20A. receptacles.

Carton, 1; standard package, 10.

Cat. No.	Description	Pkg. Wt. Lbs.	Each
3000	For 2 Duplex Receptacles.....	9	\$5.12
3001	For 2 Single Receptacles.....	9	5.12

"SAFETY YELLOW" NEOtEX "MULTI-TAP" OUTLET BOXES



No. 31503

Available with various types of receptacles:

Cat. No.	Description	Each
31550	15A, 125V Parallel "K" Type.....	\$10.31
31552	3-Wire 15A, 125V—10A, 250V Crowfoot "Y" Type	11.19
31593	3-Wire 15A, 125V Nema "U" Type	10.99
32550	10A 2-Wire TURNEX "X" Type....	10.99
32553	10A 3-Wire TURNEX "XX" Type..	12.50

Standard package 1; weight 2 lbs. each.

WATERTITE WEATHERPROOF "SAFETY YELLOW" NEOtEX SOCKETS



No. 600

660 Watts, 600 Volts

Waterproof and non-breakable. May be used under water without injury or short-circuit in socket or lamp. Meets all requirements for outside use. Fits standard sign receptacle cover.

Standard weatherproof shade holder or lamp guard will fit Watertite socket.

Cat. No.	Diam. Cover	Screw Spacing	Car- ton	Std. Pkg. Wt.	Pkg. Wt.	Each
600	-----	-----	10	100	20	\$0.76

Leads consist of NEOtEX covered No. 14 stranded wire, 4½" long. For leads longer than 4½" add to above price for each additional lineal foot desired \$0.07 ½.

WOODHEAD "SAFETY YELLOW" ELECTRICAL SPECIALTIES

SAFETY YELLOW TURNEX HI-AMP LOCKING CAPS AND CORD CONNECTORS



No. 2708

No. 2608

Unbreakable polycarbonate interiors. NEOTEX rubber covers withstand oils, greases. Completely new interior design offers new wiring ease. Unique plastic cord grip clamp does not need grounding, holds any diameter of cable from .405" to .815".

Description	Caps		Connectors	
	Cat. No.	Each	Cat. No.	Each
2-Wire				
20A-250V	2606	\$2.15	2706	\$3.31
3-Wire				
20A-125/250V	2608	2.57	2708	3.73
30A-250V	2808	2.98	2908	5.22
4-Wire				
20A-250V/10A-600V-AC	2609	3.56	2709	4.80
30A-250V/30A-600V-AC	2809	3.64	2909	7.04

"SAFETY YELLOW" WATERTITE CAPS AND CONNECTORS



No. 14W04

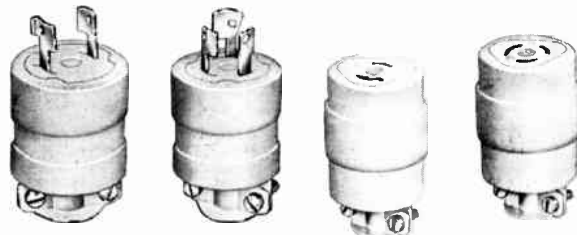
No. 15W04

Completely new design in weatherproof wiring devices. Oil-proof "Safety Yellow" NEOTEX cover, unbreakable plastic inserts, back-wired for safety. No exposed metal parts. Multiple seal between plug and connector prevents entrance of moisture and dust. Non-corrosive plastic cord grip gives absolute seal around cord. Closure provided with each connector to seal opening when not in use. Available in both straight blade and locking types.

Description	Caps		Connectors	
	Cat. No.	Each	Cat. No.	Each
Straight Blade				
15 Amp. — 125 Volt				
2-wire par.	14W04	\$1.73	15W04	\$2.68
Par. U-blade	14W47	1.89	15W47	2.92
10 A. 250 V./15 A. 125 V.				
3-wire crowfoot	14W07	1.97	15W07	2.99
15 Amp. — 277 Volt				
Crowfoot U-blade	14W34	2.02	15W34	2.99
Locking				
10 A. 250 V./15 A. 125 V.				
2-wire	24W04	1.97	25W04	2.92
3-wire	24W07	2.21	25W07	3.47
15 Amp. — 125 Volt				
3-wire grd.	24W47	2.21	25W47	3.47
15 Amp. — 277 Volt				
3-wire grd.	24W34	2.21	25W34	3.62
20 Amp. 125/250 Volt				
3-wire	26W08	4.22	27W08	6.16

BACK-WIRED TURNEX LOCKING PLUG CAPS AND CONNECTORS

10 Amp. 250 Volt/15 Amp. 125 Volt



No. 2404

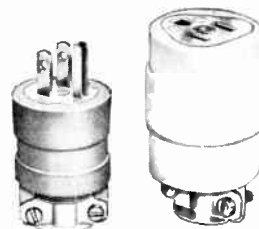
No. 2407

No. 2504

No. 2507

Back-wired convenience, dead-front safety. Oil-proof "Safety Yellow" NEOTEX cover, unbreakable polycarbonate insert. Molded-in cord grip does not require grounding.

Description	Caps		Connectors	
	Cat. No.	Each	Cat. No.	Each
2-wire	2404	\$1.24	2504	\$1.58
3-wire	2407	1.49	2507	2.15
3-wire grd.	2447	1.49	2547	2.15



No. 1447

No. 1547

Description	Caps		Connectors	
	Cat. No.	Each	Cat. No.	Each
15 Amp. — 125 Volt				
2-wire par.	1400	\$0.75	1500	\$1.00
2-wire par., cord grip	1404	1.00	1504	1.32
Pol. 2-wire par., cord grip	1419	1.16	---	---
Par. U-blade, cord grip	1447	1.16	1547	1.58
15 Amp. — 250 Volt				
2-wire tand., cord grip	1405	1.16	---	---
Tand. U-blade, cord grip	1449	1.45	1549	1.82
10 A. 250 V./15 A. 125 V.				
3-wire crowfoot	1403	.91	1503	1.28
3-wire crowfoot, cord grip	1407	1.25	1507	1.66
20 Amp. — 125 Volt				
T-pol. U-blade, cord grip	1433	1.45	1533	1.82

SAFEMATE INDUSTRIAL DUTY ADAPTER



Makes it convenient to use power tools with NEMA U-blade plug caps no matter what outlet is available.

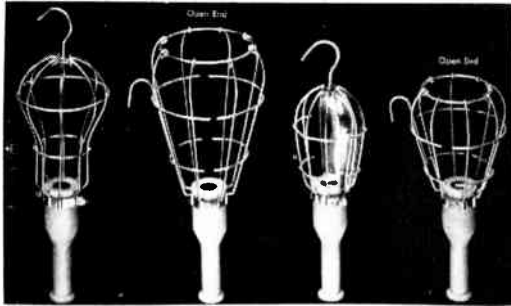
Connector Configuration: U-Blade No. 1547.

Plug Cap Configuration	Cat. No.	Each
2W Parallel, No. 1404 (grdg. lead)	1701	\$2.92
3W Crowfoot, No. 1407	1702	2.92
3W Turnex, No. 2407	1704	3.15
3W Turnex (grounding) No. 2447	1705	3.15

ERICSON ELECTRICAL SPECIALTIES

700 SERIES PORTABLE HAND LAMPS

2- and 3-Wire Use
Yellow Neoprene Handles and Sockets



No. 718 200 to 300W. No. 719 200 to 300W. No. 744-R 100W. No. 747 100W.

Cat. No.	Description	Each
718	no reflector, no switch	\$5.28
718-S	no reflector, with switch	5.76
718-R	with reflector, no switch	5.68
718-RS	with reflector and switch	6.16
719	no reflector, no switch	5.52
719-S	no reflector, with switch	6.00
719-R	with reflector, no switch	6.12
719-RS	with reflector and switch	6.60
744	no reflector, no switch	4.72
744-S	no reflector, with switch	5.20
744-R	with reflector, no switch	5.28
744-RS	with reflector and switch	5.76
747	no reflector, no switch	5.00
747-S	no reflector, with switch	5.48
747-R	with reflector, no switch	5.56
747-RS	with reflector and switch	6.04

For Ground add "G" to Cat. No. and \$0.40 to price.



No. 916-FTR

No. 900 SERIES

Yellow Neoprene handle. With three-wire U-grounded side outlet — grounded lamp guard.

Cat. No.	Description	Each
Closed End Lamp Guard		
100 Watt		
944-G	no reflector	\$6.68
944-RG	with reflector	7.24
Flip-Top Lamp Guard		
150 Watt		
916-FTG	no reflector	7.48
916-FTRG	with reflector	7.84
100 Watt		
917-FTG	no reflector	7.40
917-FTRG	with reflector	7.76
200 to 300 Watt		
918-FTG	no reflector	8.04
918-FTRG	with reflector	8.52

For Switch add "S" to Cat. No. and \$0.48 to price.

ERICSON VAPORPROOF PORTABLE LAMP GUARDS

Oil-Resistant
Yellow Neoprene Handle



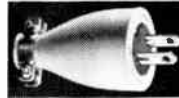
No. 70-N

Cat. No.	Description	Each
75-Watt Guard		
70	with steel guard	\$12.68
70-I	with insulated guard	16.20
100-Watt Guard		
70-N	with steel guard	14.16
70-NI	with insulated guard	17.60

For grounding clip on No. 70-N add "G" to Cat. No. and \$0.80 to price.

All of the above Portable Hand Lamps can be furnished with cord and plug cap.

ATTACHMENT PLUG CAPS



15 Amps.
125 Volts
*Except
No. 17 and No. 17-C
(15-125 — 10-250)

Cat. No.	Description	Each
15-P	2-wire parallel blades	\$0.66
15-PC	same as No. 15-P with clamp	.83
15-PG	3-wire NEMA U-blade parallel	.80
15-PGC	same as No. 15-PG with clamp	.98
15-PP	2-wire parallel polarized one blade wider than other	.72
15-PPC	same as No. 15-PP with clamp	.90
*17	3-wire crowfoot polarized	.86
*17-C	same as No. 17 with clamp	1.07

CORD CONNECTORS



Cat. No.	Description	Each
19-P	2-wire parallel connector	\$0.83
19-PC	same as No. 19-P with clamp	1.00
19-PGC	3-wire NEMA U-blade connector with clamp	1.52

NEOPRENE SOCKETS



Cat. No.	Description	Each
4	Keyless with built-in cord grip clamp, 600W; 250V.	\$1.36
4-S	same as No. 4 with turn-button switch, 250W, 250V.	1.36
4-B	same as No. 4 with 1/8" threaded bushing	1.88
4-SB	same as No. 4-S with 1/8" threaded bushing	2.16
4-W	waterproof pigtail socket, spring contact, 660W; 600V	.68
44-W	same as No. 4-W, solid button contact.	.68

MULTIPLE OUTLET CORDS



Cat. No. 2250
—50' 5 sockets, cord 16/2S, 1250W.
Each \$30.42
Cat. No. 2300
—100' 10 sockets, cord 14/2S, 1875W.
Each \$51.80

EXTENSION CORD REELS (less wiring device)



Cat. No.	Lgth. Ft.	SJO Cord	Each
2001	25	16/2	\$39.04
2001-G*	20	16/3	45.44
4001-L	45	16/2	49.98
4001-LG*	35	16/3	51.28

*Grounded.

HEAVY DUTY CABLE REELS

For: Portable Electric equipment, trouble lights, portable generators, mining equipment, job booms, overhead cranes and hoists, electromagnets, trucks, mobile equipment, monorails.

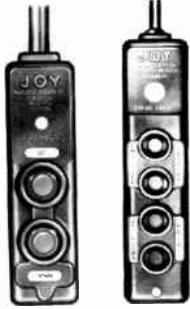


JOY FLEXITITE PENDANT PUSH BUTTON STATIONS

Designed for safety, bright orange neoprene construction insulates against shock, provides high visibility. Resilient neoprene reduces chance of injury or damage to products from swinging pendent.

Completely sealed against dirt and dust, corrosion resistant. Ideal for use in foundries, warehouses, over plating tanks, in packing houses, indoors or outside.

Includes grommets to fit your choice of control cables and a full assortment of legends.



NUMBERS	DESCRIPTION	EACH
X8635-20	2 sta., 1 spd. DC	\$33.00
X8635-21	2 sta., 1 spd. AC	17.60
X8635-22	2 sta., 2 spd. AC	33.00
X8635-40	4 sta., 1 spd. DC	66.00
X8635-41	4 sta., 1 spd. AC	35.20
X8635-42	4 sta., 2 spd. AC	66.00
X8635-60	6 sta., 1 spd. DC	99.00
X8635-61	6 sta., 1 spd. AC	52.80
X8635-62	6 sta., 2 spd. AC	99.00

PISTOL GRIP TOGGLE SWITCHES

X8471-2 Momentary contact—up-down-off \$24.42
X8471-3 Maintained contact—up-down-off 24.42

JOY FLEXITITE MOUNTABLE PUSH BUTTON STATIONS

JOY FLEXITITE PUSHBUTTON STATION'S exclusive one-piece molded neoprene design provides a completely safe, completely sealed enclosure when mounted on standard FS or FD box. There is absolutely no way for any foreign matter to work its way around the buttons to cause jamming or short circuits. And a layer of reinforced neoprene protects the operator from all electrical circuits.

The Flexitite diaphragm-like button insures a unique push-button station that meets the following NEMA standards: NEMA 1 General Purpose, NEMA 3 Weatherproof, NEMA 4 Watertight, NEMA 5 Dust-tight, NEMA 12 Oil-tight. They can be used by food processors, meat packers, fertilizer plants, dairies, breweries . . . anywhere maintenance is a problem.

NUMBERS	OPERATION	EACH
1-BUTTON		
X8781-110	NO	\$8.25
X8781-111	NC	8.25
PALM BUTTON — BLACK		
X8781-26	NO	8.25
X8781-27	NC	8.25
X-878128	NO & NC	11.00
PALM BUTTON — RED		
X8781-31	NO	8.25
X8781-32	NC	8.25
X8781-33	NO & NC	11.00
PALM BUTTON — GREEN		
X8781-36	NO	8.25
X8781-37	NC	8.25
X8781-38	NO & NC	11.00
PALM BUTTON — YELLOW		
X8781-41	NO	8.25
X8781-42	NC	8.25
X8781-43	NO & NC	11.00
1 BUTTON AND LIGHT		
X8781-10	NO	13.09
X8781-11	NC	13.09
2 BUTTON		
X8781-220	NO, NC	11.55
X8781-221	NO, NO	11.55
X8781-241	NC & NO, NC & NO	17.05
2 BUTTON AND LIGHT		
X8781-524	NO, NC W/Box	24.20
X8781-525	NO, NC	18.92
3 BUTTON		
X8781-350	NC & NO, NC & NO, NO W/Box	26.40
X8781-351	NC & NO, NC & NO, NO	21.12



JOY NEOPRENE LAMP SOCKETS

Shatterproof to reduce bulb breakage. Vibration free to prolong lamp filament life. One-piece molded construction for absolute watertightness. Pay for themselves in prolonged lamp life and reduced maintenance.

Mounts on standard 4-inch outlet box. Each socket individually packed; has 6-inch insulated wiring lead. Mounting screws included.



X8360-2 \$ 3.19

VULCANIZERS

Eliminate cable waste. Permanent molded splices can easily be made on the job or in the shop with a Joy vulcanizer.

PORTABLE TYPE



Weighing only 16 lbs., the Joy portable vulcanizer is perfect for on the job repairs. 1000 Watt heaters deliver thermostatically controlled temperatures from 220° to 325° F. Splice capacity up to 1.625 inches.

VULCANIZER ONLY		
P/N	VOLTAGE	EACH
X1604-8	115V AC	\$297.00
X1604-9	230V AC	297.00
VULCANIZER WITH CASE AND SUPPLIES		
X1604-10	115V AC	\$385.00
X1604-11	230V AC	385.00



BENCH TYPE

A truly all-purpose vulcanizer rated at 3000 Watt. Has calibrated thermostats on each platen for quick settings from 220° to 320° F. Single easy to use drive wheel develops closure pressures up to 25 tons.

P/N	VOLTAGE	EACH
X8756-18	115V AC	\$440.00
X8756-19	230V AC	440.00
X8756-20	460V AC	495.00
X8756-21	550V AC	495.00
X8756-22	125V DC	462.00
X8756-23	250V DC	462.00
X8756-24	550V DC	550.00

JOY CHANGE-OUT CONNECTORS



ELIMINATE COSTLY WIRING AND EQUIPMENT DOWNTIME
WATERTIGHT • DUSTTIGHT
• CORROSION RESISTANT
• EASILY INSTALLED • BUILT TO LAST

Joy changeout connectors dramatically reduce the time required to replace electrical equipment in production lines.

Power to equipment wiring becomes a one time job. Worn or defective equipment can be changed out in minutes without costly rewiring and downtime.

One piece molded-to-cable construction . . . vibration proof . . . shatter proof. Aluminum couplers provide positive connection guard against accidental disconnect.

No. Cond.	PART NUMBER		Amps.	AWG	LGTH.	Male	Female
	MALE	FEMALE					
2	X8651-52	X8651-49	15	14	6'	\$5.94	\$7.04
2	X8651-53	X8651-50	15	14	12'	7.26	8.25
2	X8651-54	X8651-51	15	14	18'	8.47	9.57
2	X8881-6	X8881-5	25	10	6'	8.91	9.79
2	X8881-8	X8881-7	25	10	12'	11.22	12.10
2	X8881-10	X8881-9	25	10	18'	13.42	14.41
3	X8652-51	X8652-48	15	14	6'	6.82	8.47
3	X8652-52	X8652-49	15	14	12'	8.47	10.12
3	X8652-53	X8652-50	15	14	18'	10.23	11.88
3	X8880-6	X8880-5	25	10	6'	9.79	10.67
3	X8880-8	X8880-7	25	10	12'	12.76	13.64
3	X8880-10	X8880-9	25	10	18'	15.73	16.39
4	X8653-47	X8653-44	12	14	6'	7.92	10.12
4	X8653-48	X8653-45	12	14	12'	10.23	12.43
4	X8653-49	X8653-46	12	14	18'	13.31	14.74
4	X8879-6	X8879-5	20	10	6'	10.78	12.10
4	X8879-8	X8879-7	20	10	12'	14.41	15.73
4	X8879-10	X8879-9	20	10	18'	17.93	19.25
5	X8872-6	X8872-5	6	18	6'	8.36	11.11
5	X8872-8	X8872-7	6	18	12'	9.68	14.63
5	X8872-10	X8872-9	6	18	18'	11.00	13.75
5	X8878-6	X8878-5	20	10	6'	13.75	15.29
5	X8878-8	X8878-7	20	10	12'	20.20	21.45
5	X8878-10	X8878-9	20	10	18'	26.18	27.72
6	X8871-6	X8871-5	6	18	6'	9.35	12.65
6	X8871-8	X8871-7	6	18	12'	11.99	15.29
6	X8871-10	X8871-9	6	18	18'	14.63	17.93
6	X8877-8	X8877-7	20	10	6'	15.18	16.83
6	X8877-10	X8877-9	20	10	12'	22.44	24.09
6	X8877-12	X8877-11	20	10	18'	29.70	31.35
7	X8870-6	X8870-5	5	18	6'	11.22	14.85
7	X8870-8	X8870-7	5	18	12'	13.20	17.93
7	X8870-11	X8870-10	5	18	18'	16.28	21.01
7	X8876-8	X8876-7	18	10	6'	16.39	18.26
7	X8876-10	X8876-9	18	10	12'	24.64	26.51
7	X8876-12	X8876-11	18	10	18'	32.89	34.76

Note: All portable connections furnished on 600V type SO cable.

RECEPTACLES

No. Cond.	PART NUMBER		Amps.	AWG	Pipe Thread	Male	Female
	MALE	FEMALE					
2	X8651-8	X8651-10	15	14	1/2"	\$3.74	\$4.73
2	X8651-9	X8651-11	15	14	3/4"	3.74	4.73
2	X8881-3	X8881-1	25	10	1"	8.58	9.68
3	X8652-12	X8652-14	15	14	1/2"	4.40	5.83
3	X8652-13	X8652-15	15	14	3/4"	4.40	5.83
3	X8880-3	X8880-1	25	10	1"	8.91	10.12
4	X8653-13	X8653-15	12	14	1/2"	4.84	6.71
4	X8653-14	X8653-16	12	14	3/4"	4.84	6.71
4	X8879-3	X8879-1	20	10	1"	9.35	10.67
5	X8872-3	X8872-1	6	18	1/2"	6.05	8.36
5	X8872-12	X8872-11	6	18	3/4"	6.05	8.36
5	X8878-3	X8878-1	20	10	1"	9.79	13.33
6	X8871-3	X8871-1	6	18	1/2"	7.26	10.01
6	X8871-12	X8871-11	6	18	3/4"	7.26	10.01
6	X8877-3	X8877-1	20	10	1"	10.23	13.97
7	X8870-13	X8870-12	5	18	1/2"	14.08	17.05
7	X8870-4	X8870-2	5	18	3/4"	14.08	17.05
7	X8876-3	X8876-1	18	10	1"	10.67	12.54

Note: All receptacles have 12 inch single conductor pigtailed.

JOY CHANGE-OUT CONNECTORS WITH NYLON COUPLERS

All of the advantages of the Changeout connector, plus the added corrosion resistance of nylon. Designed specially for power and control applications in corrosion environments, salty atmosphere, in contact with salt water or other corrosive environments which would normally attack metal couplers.

No. Cond.	PART NUMBER		Amps.	AWG	LGTH.	Male	Female
	MALE	FEMALE					
2	X8651-79	X8651-78	15	14	6'	\$5.94	\$7.04
2	X8651-81	X8651-80	15	14	12'	7.26	8.25
2	X8651-83	X8651-82	15	14	18'	8.47	9.57
3	X8652-93	X8652-92	15	14	6'	6.82	8.47
3	X8652-95	X8652-94	15	14	12'	8.47	10.12
3	X8652-97	X8652-96	15	14	18'	10.23	11.88
4	X8653-93	X8653-92	12	14	6'	7.92	10.12
4	X8653-95	X8653-94	12	14	12'	10.23	12.43
4	X8653-97	X8653-96	12	14	18'	13.31	14.74
5	X8872-16	X8872-15	6	18	6'	8.36	11.11
5	X8872-18	X8872-17	6	18	12'	9.68	14.63
5	X8872-20	X8872-19	6	18	18'	11.00	13.75
6	X8871-22	X8871-21	6	18	6'	9.35	12.65
6	X8871-24	X8871-23	6	18	12'	11.99	15.29
6	X8871-26	X8871-25	6	18	18'	14.63	17.93
7	X8870-17	X8870-16	5	18	6'	11.22	14.85
7	X8870-19	X8870-18	5	18	12'	13.20	17.93
7	X8870-21	X8870-20	5	18	18'	16.28	21.01

Note: All portable connectors furnished on 600V type SO cable.

RECEPTACLES

No. Cond.	PART NUMBER		Amps.	AWG	Pipe Thread	Male	Female
	MALE	FEMALE					
2	X8651-77	X8651-76	20	14	1/2"	\$3.74	\$4.73
2	X8651-85	X8651-84	20	14	3/4"	3.74	4.73
3	X8652-91	X8652-90	20	14	1/2"	4.40	5.83
3	X8652-99	X8652-98	20	14	3/4"	4.40	5.83
4	X8653-91	X8653-90	20	14	1/2"	4.84	6.71
4	X8653-99	X8653-98	20	14	3/4"	4.84	6.71
5	X8872-14	X8872-13	6	18	1/2"	6.05	8.36
5	X8872-22	X8872-21	6	18	3/4"	6.05	8.36
6	X8871-20	X8871-19	6	18	1/2"	7.26	10.01
6	X8871-28	X8871-27	6	18	3/4"	7.26	10.01
7	X8870-23	X8870-22	5	18	1/2"	14.08	17.05
7	X8870-15	X8870-14	5	18	3/4"	14.08	17.05

Note: All receptacles have 12 inch single conductor pigtailed.

CONNECTORS FOR ELECTRO-MAGNETS

WATERTIGHT • DUSTTIGHT • SHATTERPROOF • UNBREAKABLE



Built for the rugged duty of an electro-magnet, the molded - to - cable design provides a disconnectable electrical connection impervious to the harsh environments of the steel mill, foundry, or scrap yard.

No. Cond.	MALE NOS.	FEMALE NOS.	Amps.	LGTH.	AWG	Male	Female
1	X8002-1	X8002-2	60	16"	6	\$4.18	\$4.18
1	X8002-3*	X8002-4*	60	16"	6	6.38	6.38
1	X8003-9*	X8003-14*	95	16"	3	7.92	7.92
1	X8006-1	X8006-2	175	24"	2/0	11.33	11.33
1	X8169-2	X8169-9	175	30"	2/0	17.93	17.93
2	X8015-1	X8015-5	15	16"	14	4.07	4.07
2	X8015-20*	X8015-21*	15	16"	14	5.94	5.94
2	X8016-6*	X8016-23*	25	22"	10	8.69	8.69
2	X8017-3*	X8017-8*	50	30"	6	12.43	12.43
2	X8018-19*	X8018-20*	80	30"	3	18.48	18.48
2	X8019-16*	X8019-3*	95	24"	2	19.47	19.47
2	X8019-53*	X8019-51*	95	24"	2	19.47	19.47
2	X8022-4	X8022-1	25	16"	10	6.27	6.27
2	X8024-5*	X8024-4*	50	24"	6	14.85	14.85
2	X8026-1*	X8026-43*	95	24"	2	18.59	18.59
3	X8041-2	X8041-3	15	16"	14	5.94	5.94
3	X8043-2	X8043-1	25	16"	10	8.69	8.69
4	X8060-22*	X8060-26*	20	24"	10	14.14	14.14
4	X8062-6*	X8062-18*	40	30"	6	20.79	20.79

*Connectors equipped with safety chains.

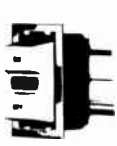
**GENERAL ELECTRIC
REMOTE CONTROL WIRING SYSTEMS**

GE Remote Control Wiring is a modern and entirely different kind of wiring system. It eliminates the 120 volt wiring to all switches and replaces it with inexpensive, low-voltage wire. The heavy work of switching is done by dependable relays that can be controlled from various remote points. Individual switches are normally open, SPDT momentary-contact units; any number can be connected in parallel. Master Switches give control of many lights, from one or several convenient locations.

GE Remote Control Wiring provides safer, more convenient lighting control for homes, apartments, commercial and industrial buildings.



RMS-4A



RFS-8



RR-3

REMOTE CONTROL COMPONENTS

Cat No.	Each	Description
RR-3	2.47	relay, std. } 20A 1/2HP 125VAC
RR-4	3.25	relay/pilot sw } 20A 277VAC
RR-5	3.76	plug-in relay — same rating
RR-6	3.45	same as RR-5 with pilot switch
RT-1	9.75	35VA transformer, 115V pri/24V sec.
RT-2	13.00	same, except 277V pri.
RA-9	1.95	selenium rectifier, .4A 25V AC
RFS-6	.44	standard switch, ivory, 3A 25V AC
RFS-7	.98	same, with locator light
RFS-8	1.11	same, with red pilot light
RTS-4	1.82	interchangeable line switch, brown, 10A 25V AC
RTS-5	1.82	same, ivory
GE5935-1	2.01	H.D. switch, brown, 15A (fits standard boxes)
RMS-4A	11.70	12-pos. Master Selector Sw., ivory
RA-12	8.45	pilot-light assembly for RMS-4A
RMS-5R	11.38	motor master/red leads for "ON"
RMS-5B	11.38	same/black leads for "OFF" control
RRF-34	1.17	frame to hold 1 to 6 RR-3 & RR-4
RRF-56	2.28	frame to hold 1 to 6 RR-5 & RR-6
RBS-1	6.50	box for 1 frame, surface
RBS-2	8.32	box for 2 frames, surface
RP-1	.22	ivory plastic wall plate 1 switch, 1 gang, w/o bracket
RP-2	.22	same, except 2 switches
RP-3	.22	same, except 3 switches
RP-111	.47	stainless steel wall plate 1 switch, 1 gang, w/o bracket
RP-112	.47	same, except for 2 switches
RP-113	.47	same, except for 3 switches
RA-4	.09	mounting bracket for RFS switches
GE7690-0	.11	mounting bracket for RTS switches

REMOTE CONTROL WIRE

Cat. No.	per 1000'	Description
53087-3	25.42	twisted indoor, 3 cond.-red/white/black
53087-4	33.93	same, 4 cond.-red/white/black/yellow
53088-12	204.75	12 yellow conductors and yellow jacket for wiring RA-12
53088-19	214.37	19-conductor cable*
53088-26	327.08	26-conductor cable*

OTHER GE REMOTE CONTROL COMPONENTS ALSO AVAILABLE

*Shorter lengths priced higher.

ART METAL LIGHTING FIXTURES

RECESSED WEATHER-PROOF LIGHTING



Suggested uses include showers, bathrooms, marquees, stoops, porches, etc.

Designed specifically for service in wet locations, the cork gasket seal between glass and face trim and between face trim and insert housing excludes moisture, dust and dirt.

Pressed White Ceramic Glass has high light transmission efficiency and is scientifically contoured for uniformly white surface brightness and spread light on ceiling. Resists impact breakage.

Face Trim and Insert Housing are made of 18 Ga. (.040") aluminum. Moisture-proof Cork Gasket seal between glass and face trim and between face trim and insert housing excludes moisture, dust and dirt. Vertical slotted mounting holes in Insert Housing provide adjustment for ceiling thicknesses up to 2 3/4". Three chrome plated brass thumb nuts for attaching Face Trim to Insert Box are corrosion-proof. 4" Outlet Box is attached. Porcelain Socket included.

Cat. No.	Max. Watts	Face Dia.	Insert Dia.	Insert Depth	O.A. Depth on Ceiling	Each
Glass Size: 5 1/4" Dia. x 3/4"						
3356AA	60	6 1/2"	4 3/4"	5"	1"	\$6.20
Glass Size: 7 1/2" Dia. x 1 1/2"						
3357AA	100	8 7/8"	7 1/2"	5 1/2"	1 3/4"	8.06

RECESSED WEATHER-PROOF AREALENS



Extended light distribution provides effective horizontal and vertical illumination over wide areas. 80% of total output directed into 40°-85° zone. Heavy pressed clear glass resists impact breakage.

Effective horizontal light coverage area around each unit is 35 feet outward at 10 foot mounting height. Vertical illumination for protective-disinfection of objects or intruders is effective at 100 feet or more. Moisture-proof gasketing and aluminum construction provides weather-proof protection. Vertical slotted mounting holes in insert housing provide adjustments for ceiling thicknesses up to 2 3/4". 4" Outlet Box and Porcelain Socket are furnished.

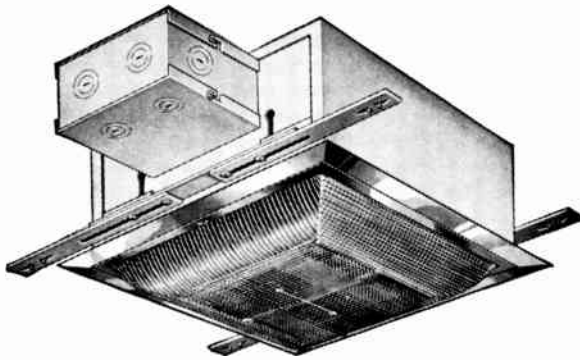
Suggested applications include: Canopies, Yard Areas, Driveways, Locker and Shower Rooms, Loading Docks, Warehouses, etc.

Recessed—Anodized Aluminum Face Trim

Cat. No.	Max. Watts	Face Dia.	Insert Dia.	Insert Depth	O.A. Depth on Ceiling	Each
3544AA	100	8 7/8"	7 1/2"	5 1/2"	5"	\$8.88

ART METAL LIGHTING FIXTURES

CORRIDOR RECESSED AMCOLENS



Clear Asymmetric Amcolens is specifically designed for most effective illumination in narrow areas such as Corridors, Entrances, Covered Walkways, Aisleways, etc.

Two-way parallel and transverse prisms on bottom and ends of lens extends light distribution in length and narrows it in width for maximum light utilization and illumination uniformity over the entire floor area.

Prisms on deep curved sides direct light outward and downward to wall surfaces for effective lighting in lockers, on wall displays, etc., and to enhance overall brightness balance in corridor appearance.

Prewired Recessed Housing with 42 cubic inch junction box. Porcelain socket. Elliptisquare full reflector and with Clinch-Cleat mounting equipment. Front equipped with Touch-Latch hinged door, gasket seal on trim prevents dust and light streaks.

Cat. No.	Max. Watts	Front Finish	Each
20-3512WS	200	White Enamel*	\$18.08
20-3512AA	200	Anodized Aluminum**	20.89
20-3512AB	200	Anodized Brass**	20.89

*Steel Front (Std.): WS = White Enamel Face Trim and Hinged Door.

**Aluminum Fronts: AA = Anodized Aluminum Trim and Door.

AB = Anodized Brass Trim and Door. Surface Mounted and Semi-Recessed also available.

VERTIDRUM®



Modern opal glass with vertical sides. Glass safely hinges open by pushing release button permitting glass to swing down on double hinge. Glass securely hinges closed with safety catch. Aluminum, Satin Chromtint.

Cat. No.	Band Dia., In.	O.A. Depth In.	Glass Size, In. Dia.	Glass Depth	Max. Watts	Each
Hinged Glass With Push Button Safety Control						
601	8 7/8	5	9 3/8	3 3/4	2-60	\$6.60
602	10 1/8	5 3/8	11 3/8	4	2-75	8.08
603	12 1/8	5 5/8	13 3/8	4 1/4	2-100	10.30
604	14 1/8	6 1/8	15 3/8	4 1/2	3-100	14.57

Opal Glass Drum for Circline Fluorescent Lamps

630	14 1/8	6 1/8	15 3/8	4 1/2	1-32 & 1-22	26.19
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ROUND RECESSED AMCOLENS



All-aluminum recessed unit. Housing, reflector made of 20 gage aluminum, trim and door made of 18 gage aluminum. 18 gage steel painted socket strap adjustable to positively locate both 150 and 200 watt lamps. The all-aluminum reflector with a chemically polished and anodized finish, when tightened to the housing by a single wing nut, secures the door and trim in proper position. Door hinges from aluminum trim with cadmium plated steel hinge. Spring-Lock Safety Touch Latch secures aluminum door in proper position and provides finger-touch operation with one hand relamping.

Cat. No.	Max. Watts	Housing Insert— Dia. Depth	Face Dia.	Each
Asymmetric Light Distribution for Corridor Lighting				
3650	200	11 7/8" 3 3/8"	13"	\$17.45
Symmetric Light Distribution for General Lighting				
3652	200	11 7/8" 3 3/8"	13"	17.45

ROUND SURFACE AMCOLENS



All-aluminum surface unit. Housing consists of one piece, precision-spun 18 gage aluminum with a satin finish. 18 gage steel painted socket strap adjustable to positively locate both 150 and 200 watt lamps. The all aluminum reflector, chemically polished and anodized, when tightened to an outlet box cover plate by a single wing nut, draws the one-piece housing snugly to the ceiling surface. The door hinges from the housing by a cadmium plated steel hinge. The Spring-Lock Safety Touch Latch secures door in proper position and provides finger-touch operation with one hand relamping.

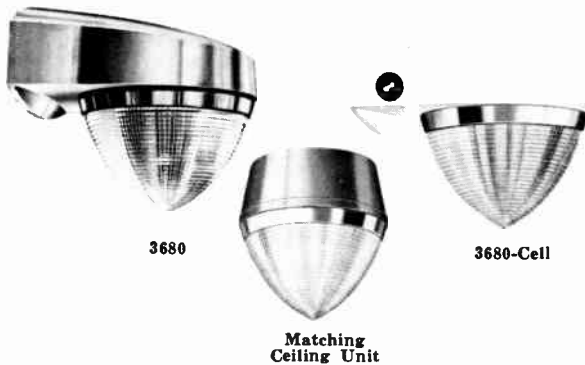
Cat. No.	Max. Watts	Overall Depth Incl. Lens	Housing Diameter	Each
Asymmetric Light Distribution for Corridor Lighting				
3651	200	6 1/2"	13"	\$18.20
Symmetric Light Distribution for General Lighting				
3653	200	6 1/2"	13"	18.20

Standard Finish is Anodized Aluminum.

Add "AA" to Cat. No. for Anodized Aluminum.

Add "AB" to Cat. No. for Anodized Brass.

**ART METAL MERCURY VAPOR
OUTDOOR WALL BRACKETS
ASYMMETRIC AREALENS**



Fan-shaped asymmetrical light distribution provides uniform illumination over wide areas adjacent to building walls. 90% of light output is directed away from wall to double useful illumination coverage. 10% of light output is softly diffused toward adjacent wall surfaces for pleasantly lighted background effect.

Cat. No.	Max. Watts	O.A. Height	O.A. Width	Ext. From Wall	Each
Universal Metallic Finish					
3680	100W*	8 5/8"	8 1/8"	9 1/4"	\$37.50
3680-Cell†	100W*	8 5/8"	8 1/8"	9 1/4"	46.19
Brushed Aluminum Finish					
3680A	100W*	8 5/8"	8 1/8"	9 1/4"	37.50
3680A-Cell†	100W*	8 5/8"	8 1/8"	9 1/4"	46.19

*Mercury Vapor H100A38 — 4/A23 (H38-4LL) or H100C38 — 4/A23 Color-Improved (H38-4MP/C).
†Photocell Units.

UL/CSA-IBEW/AFL Labeled
Housing Extension for Surface Wiring
Also Available in 277 Volt

WIDESPREAD AMCOLENS



The Clear Lens bottom provides high level widespread downlight outward to adjacent vertical surfaces and surrounding area.

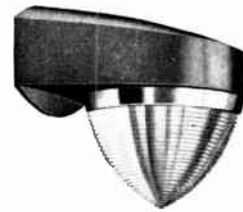
Cat. No.	Max. Watts	O.A. Height	O.A. Width	Ext. From Wall	Each
Universal Metallic Finish					
3682	100W*	8"	8 1/8"	9 1/4"	\$36.94
3682-Cell†	100W*	8"	8 1/8"	9 1/4"	45.62
Brushed Aluminum Finish					
3682A	100W*	8"	8 1/8"	9 1/4"	36.94
3682A-Cell†	100W*	8"	8 1/8"	9 1/4"	45.62

*Mercury Vapor H100A38 — 4/A23 Clear (H38-4LL) or H100C38 — 4/A23 Color-Improved (H38-4MP/C).

†Photocell Units.

UL/CSA-IBEW/AFL Labeled
Housing Extension for Surface Wiring
Also Available in 277 Volt

**ART METAL OUTDOOR
LIGHTING FIXTURES
ASYMMETRIC AREALENS WALL BRACKET**



The housing and trim ring are of die-cast aluminum for strength and performance. The carefully selected Universal Metallic finish blends with any building interior. Resilient closed-cell sponge rubber gaskets between lens, ring, housing and junction box, provide tightest seal against moisture and dust. An inconspicuous release lets the trim ring and lens hinge down for quick and easy relamping.

Fan-shaped asymmetrical light distribution is specifically designed to provide uniform illumination over wide areas adjacent to building walls. 90% of light output is directed downward and outward away from wall to double useful illumination coverage. 10% of light output is softly diffused toward adjacent wall surfaces for pleasantly lighted background effect.

Back plate permits installation of either 3 1/4" or 4" outlet box, and has slot holes which permit bracket to be leveled up to (plus or minus) 6° from horizontal to compensate for outlet box being out of alignment.

Available with Intermediate base socket for 10W. S-11 or 25W. T-8 lamp. For Night add suffix NL. Housing Extension, 1 5/8" deep, for surface wiring, made of aluminum. Universal Metallic finish. 4 removable knockouts for 3/4" conduit at 90°. Gasket furnished for outlet box. Specify No. 3674.

Cat. No.	Max. Watts	Overall Width	Overall Height	Extension From Wall	Each
3670	150/200	8 1/8"	8 5/8"	9 1/4"	\$16.43

ASYMMETRIC AREALENS CEILING UNIT













A ceiling mounted unit that matches the 3670 wall bracket. Gasketed, weatherproof and uses the same exclusive Art Metal lens as the wall bracket. Excellent for use under canopies and walkways where asymmetrical distribution and controlled brightness are desired. The housing is 18 ga. aluminum. The finish is Universal Metallic. Lens and trim hinge for quick and easy relamping.

Available with Intermediate base socket for 10W. S-11 or 25W. T-8 lamp. Night Light, add suffix NL. Housing Extension, 1 5/8" deep, for surface wiring available. Made of aluminum. Universal Metallic finish. 4 removable knockouts for 3/4" conduit at 90°. Gasket furnished for outlet box. Specify No. 3679.

Cat. No.	Max. Watts	Overall Dimensions Including Glass	Each
3675	150/200	7 1/8" Dia. x 7 3/4" Deep	\$13.27

ART METAL INCANDESCENT EXITS

LAMP LIFE EXTENDER PROVIDED LAMPS PROVIDED		Reference: Bulletin EX 3-466	Red Letters on White Fiberglass	Green Letters on White Fiberglass	White Letters on Red Fiberglass	White Letters on Green Fiberglass	Red Fiberglass Letters with Metal Stencil	Green Fiberglass Letters with Metal Stencil	EACH
RECESSED									
	SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT DOUBLE ARROW	R-94	R-95	R-96	R-97	R-98	R-99	\$11.90
			R-94-L R-94-R R-94-D	R-95-L R-95-R R-95-D	R-96-L R-96-R R-96-D	R-97-L R-97-R R-97-D	R-98-L R-98-R R-98-D	R-99-L R-99-R R-99-D	12.46
TWO 25W. T6½/1.F. LAMPS FURNISHED									
WALL MOUNT									
	SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT DOUBLE ARROW	W-94	W-95	W-96	W-97	W-98	W-99	12.34
			W-94-L W-94-R W-94-D	W-95-L W-95-R W-95-D	W-96-L W-96-R W-96-D	W-97-L W-97-R W-97-D	W-98-L W-98-R W-98-D	W-99-L W-99-R W-99-D	12.90
TWO 25W. T6½/1.F. LAMPS FURNISHED									
END MOUNT									
	RIGHT MOUNT SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT DOUBLE ARROW	RES-94	RES-95	RES-96	RES-97	RES-98	RES-99	13.74
			RES-94-L RES-94-R RES-94-D	RES-95-L RES-95-R RES-95-D	RES-96-L RES-96-R RES-96-D	RES-97-L RES-97-R RES-97-D	RES-98-L RES-98-R RES-98-D	RES-99-L RES-99-R RES-99-D	14.30
	LEFT MOUNT SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT DOUBLE ARROW	LES-94	LES-95	LES-96	LES-97	LES-98	LES-99	13.74
			LES-94-L LES-94-R LES-94-D	LES-95-L LES-95-R LES-95-D	LES-96-L LES-96-R LES-96-D	LES-97-L LES-97-R LES-97-D	LES-98-L LES-98-R LES-98-D	LES-99-L LES-99-R LES-99-D	14.30
	DOUBLE FACE	} NO ARROW AR. RIGHT, AR. LEFT 2 DOUBLE ARROWS	E-94	E-95	E-96	E-97	E-98	E-99	19.49
			E-94-LR E-94-D	E-95-LR E-95-D	E-96-LR E-96-D	E-97-LR E-97-D	E-98-LR E-98-D	E-99-LR E-99-D	20.61
TWO 25W. T6½/1.F. LAMPS FURNISHED									
CEILING MOUNT									
	SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT DOUBLE ARROW	CS-94	CS-95	CS-96	CS-97	CS-98	CS-99	13.74
			CS-94-L CS-94-R CS-94-D	CS-95-L CS-95-R CS-95-D	CS-96-L CS-96-R CS-96-D	CS-97-L CS-97-R CS-97-D	CS-98-L CS-98-R CS-98-D	CS-99-L CS-99-R CS-99-D	14.30
	DOUBLE FACE	} NO ARROW AR. LEFT, AR. RIGHT 2 DOUBLE ARROWS	C-94	C-95	C-96	C-97	C-98	C-99	19.49
			C-94-LR C-94-D	C-95-LR C-95-D	C-96-LR C-96-D	C-97-LR C-97-D	C-98-LR C-98-D	C-99-LR C-99-D	20.61
TWO 25W. T6½/1.F. LAMPS FURNISHED									
PENDANT MOUNT									
	SINGLE FACE	} NO ARROW ARROW LEFT ARROW RIGHT 2 DOUBLE ARROWS	PS-94	PS-95	PS-96	PS-97	PS-98	PS-99	15.14
			PS-94-L PS-94-R PS-94-D	PS-95-L PS-95-R PS-95-D	PS-96-L PS-96-R PS-96-D	PS-97-L PS-97-R PS-97-D	PS-98-L PS-98-R PS-98-D	PS-99-L PS-99-R PS-99-D	15.70
	DOUBLE FACE	} NO ARROW AR. LEFT, AR. RIGHT 2 DOUBLE ARROWS	P-94	P-95	P-96	P-97	P-98	P-99	20.89
			P-94-LR P-94-D	P-95-LR P-95-D	P-96-LR P-96-D	P-97-LR P-97-D	P-98-LR P-98-D	P-99-LR P-99-D	22.01
TWO 25W. T6½/1.F. LAMPS FURNISHED									
TRIANGULAR									
	DOUBLE FACE	} NO ARROW AR. LEFT, AR. RIGHT 2 DOUBLE ARROWS	T-94	T-95	T-96	T-97	T-98	T-99	30.08
			T-94-LR T-94-D	T-95-LR T-95-D	T-96-LR T-96-D	T-97-LR T-97-D	T-98-LR T-98-D	T-99-LR T-99-D	31.14
FOUR 25W. T6½/1.F. LAMPS FURNISHED									

ART METAL-DANLITE DECORATIVE LIGHTING FIXTURES

Art Metal-Danlite metal and glass lighting fixtures are designed for the discriminating architect and interior decorator who insists upon the ultimate in unique lighting for hotels, motels, restaurants, finer resi-

dences and similar installations. Styled by Europe's most distinguished designers and hand-made by Danish craftsmen, Art-Metal-Danlite offers the finest in truly decorative lighting.

ORIENT



- MAJOR** Each
 Diameter: 12½"
 Height: 13½"
 Wattage: 1—100 Watt lamp
 E 2359/40 Solid satin copper 92.46
 E 2361/80 Solid satin aluminum 64.06
- MINOR**
 Diameter: 8⅞"
 Height: 9⅞"
 Wattage: 1—75 Watt lamp
 E 2358/40 Solid satin copper 55.69
 E 2360/80 Solid satin aluminum 45.04
 E 2363 Sterling Silver 545.42

DISKOS



- Diameter: 18½"
 Height: 3½"
 Wattage: 2—60 Watt lamp
 E 2385/80 Solid satin aluminum with Polyethylene diffuser
 Each: \$83.08

CORONA



- Diameter: 9"
 Height: 17¾"
 Wattage: 1—100 Watt lamp
 E 2343/80/7 Solid satin aluminum with black ring finish light purple on inside
 Each: \$47.44

BANG



- Diameter: 4¾"
 Height: 16¼"
 Wattage: 1—60 Watt lamp
 E 2322/E 5909 Coral
 E 2322/E 5910 Turquoise
 E 2322/E 5911 Night Blue
 E 2322/E 5912 White
 Flashed Glass
 Each: \$20.17

PISA



- Diameter: 5½"
 Height: 15"
 Wattage: 1—75 Watt lamp
 E 2345/E 5924 Orange 30.83
 E 2345/E 5925 Olive 24.90
 E 2345/E 5926 Grey 24.90
 E 2345/E 5927 White 20.17
 Flashed Glass

CAPRI



- Diameter: 7"
 Height: 11"
 Wattage: 1—75 Watt lamp
 E 2347/E 5928 Outer glass olive. Inner glass matte white, flashed
 E 2347/E 5929 Outer glass night-blue. Inner glass matte white, flashed
 Each: \$39.17

AMPLEX DISPLAY LIGHTING AIDS

For In-Store and Traffic Drawing Windows

SWIVELITES AND FOCALITES

Representative Items Shown —
Details on Complete Line Available

Swivelites have instant positive, finger-touch, universal positioning that stays put—plus airflow ventilated hoods for longer bulb life. Durable decorator finishes withstand operational heat. Unique "Adapt-A-Unit" principal plus six hood styles allows complete interchange of all parts; permits flexibility in adapting to new lighting requirements using minimum parts inventory.

Available in the following styles: socket and hood units in single and multiple clusters, screw-ins, clamp-ons, canopy models, portables and electrical raceway types including Bulldog "ULD Lighting Duct", GE "LW Busway" and Wiremold Plugmold.



Model No. C11SH/S
\$6.33



Model No. C11SH
\$6.33



Model No. C11
\$2.16



Model No. C11SH24
\$8.97



Model No. C12SH
\$11.97



Model No. C12SH/S
\$11.97



Model No. C13SH
\$17.97



Model No. N10
\$1.41



Model No. CO
\$2.97



Model No. DLSH-30B
\$11.10



Model No. CCB-
\$1.41
(Color Filters Extra)



Model No. B-5
\$3.87



Model No. B-7
\$4.35

Note: Prices do not include lamps.

IODINE QUARTZ DISPLAY LIGHTS



Model No. DLSC (Screw-In)
\$13.30



Model No. DLCU (Canopy)
\$13.30



Model No. DLCO (Clamp-On)
\$14.34



Model No. DLSC-7
(Hi-Hat Converter)
\$17.30



Model No. DLBM
(Portable Base)
\$14.34

Brilliant High-Intensity True-Color Lighting now possible with tiny new I. Q. light source. Offers blue-white light (3000°K) in excess of 5000 lumens and burns at full brilliance throughout its life. Available in standard mounting types plus Bulldog "ULD" track, GE "LW Busway" and Wiremold Raceway. Complete accessories available to produce any desired lighting effects. Handsome Burnished Bronze finish. Includes unique true color Dichroic lens.

Note: Prices do not include lamps.

BEAMSPOTS

For High Intensity Accent Lighting



Model No. B20C
\$10.80



Model No. B30TT
\$19.80



Model No. PB10TT
\$23.40



Model No. PB5B
\$17.40

Designed for use with powerful 200W PAR-46 and 300W PAR-56 lamps, they offer the "Punch Light" intensities needed to overcome window reflections and higher levels of general illumination. Ideal for medium or long range "throw". For startling pinpoint high intensity lighting, 6V PAR-46 lamps in Pin Beam (PB) models, produce the equivalent light output to the 300W PAR-56 spot in less than 30W.

Dramatic display lighting, vivid color effects with filters, good lamp life, ease of adjustment and relamping are a few outstanding features. Available in models to suit most every standard lighting and mounting requirement: for Bulldog "ULD Lighting Duct", GE "LW Busway" and Wiremold Plugmold Raceway Systems. Plus professional accessories for special effects. Black, Alum., White.

Note: Prices do not include lamps.

AMPLEX DRAFTING, DESK, MAGNIFYING LAMPS

For Office, Factory, Laboratory & Professional Use

TROMBOLITES

A special combination hood blends incandescent and fluorescent lighting, using 60W I.F. & 22W T9 Circline lamps. Provides more and better light, better color, and better distribution than any other fixture of its type sold today. Features unique "Trombone-Slide" arm action, available in six mounting types and Executive Grey, Decorator Blue, Sahara Tan, Tropic Green and White decorator colors. Incandescent model also available.



Clamp-On Model
No. FSD-200-TCO
\$19.17

Screw Down Model
No. FSD-200
\$18.57

Desk Model
No. FSD-200-DSK
\$23.97



Draftsman's Model
No. FSD-200-TDM
\$19.17

Wall-Bracket Model
No. FSD-200-TWB
\$19.17

Incandescent Model
No. ISD-100
\$13.17

Pedestal Model
No. FSD-200-PED
\$31.77

Note: Prices do not include lamps.

**TROMBOLITE INSPECTION-LITE
For Magnification-Plus Light**



Magnifying Inspection-Lite Model
No. MF-200-DSK \$31.17

Incorporates brilliant high-intensity lighting with high power distortion-free magnification for detailed examination of all precision and close work. Uses 22W circline fluorescent tube and 3-diopter standard magnifying lens. Available with 5-diopter lens for greater magnification. Six mounting styles: Clamp-on, screw-down, desk, draftsmen's, wall-mount and pedestal. Available in Executive Grey, baked enamel finish.

Note: Price does not include lamps.

E-Z-GLIDE LAMPS

Distinctive design, ease of operation and adjustment, rugged construction, beautiful decorator colors and variety of different head types make these fixtures the most versatile and popular on the market today. 5 different mounting styles, which include non-adjustable clamp or screw-down, adjustable clamp or screw-down or wall mount, adjustable draftsman's desk and pedestal models — are all offered in a "stud" style, permitting universal interchangeability. Dual 12" arms or dual 18" arms direct the light that's correct for the task.

Note: Prices do not include lamps.



Utility Incandescent Model
No. EZG-U-CB-18
\$14.22



Executive Incandescent Model
No. EZG-E-CB-18
\$15.72



Magnifying Fluorescent Model
No. EZG-M-CB-18
\$26.37



Fluorescent Model
No. EZG-T-CB-18
\$20.37



Combo-Lite Model
No. EZG-C-CB-18
\$19.77

BENJAMIN FLUORESCENT LIGHTING

ENCORE SERIES — ROWS AND PATTERNS



1500 MA lighting is available in the new, quiet extruded aluminum Encore series for both single and twin-lamp installations. In addition to the Row and Pattern systems, Encore is also available for Valance and Spline applications. The unique design of Encore and methods of installation make it possible to design literally hundreds of new and different designs.

Features

- Encore offers three times as much light
- Requires fewer lamps and ballasts
- Has new, exclusive sound attenuator
- Plug-in electrical connectors
- Aircraft cable suspension
- Easy access to control equipment

Row Systems

The conventional widely accepted method of mounting the units in parallel continuous rows. Often this system is used when replacing obsolete lighting installations using existing outlets.

Patterns

Encore reduces the number of fixtures required, offering unique new ideas in illumination. Squares, U-shapes, 90° angles, rectangles, etc.

ORDERING FORMULA:

<p>Type of Unit 1—Single-lamp 2—Twin-lamp</p>	<p>Diffuser Single-Lamp • 5—Acrylic lens • 6—Acrylic low-brightness lens • 7—V-Baffle</p>	<p>Diffuser Twin-lamp: • 5—Acrylic lens • 6—Acrylic low-brightness lens</p>	<p>Circuit: • 5—800MA • 6—1500 MA PG • SHO, VHO</p>	<p>Finish: • A—Natural Aluminum • B—Sandalwood Bronze • G—Aztec Gold • (Other colors on application)</p>	<p>Inside Dimensions: of Pattern (Squares or rectangles) or Length of Row</p>
CER-1	6	6	6	-A-	8x20
	Number of Lamps in Row or Pattern				

ENCORE COMPONENT PARTS

POWER PACKS ONLY — 1500 MA*

Single-Lamp Units			Twin-Lamp Units		
Lamps	Cat. No.	Each	Lamps	Cat. No.	Each
1-4'	CE-0416	\$52.35	2-4'	CE-2426	\$73.50
1-6/8'	CE-0816	52.35	2-6/8'	CE-2826	82.65
2-4'	CE-0426	52.35	4-4'	CE-2446	115.70
2-6/8'	CE-0826	61.55	4-6/8'	CE-2846	121.20
			2-6/8' & 2-4'	CE-4846†	115.70

*800 ma available on application.
†For use with pattern or valance only.

Specifications

Side Panels — Power-Pack — (& Illuminated Center "V") — Extruded high strength aluminum alloy. Finish is etched and anodized Alcoa type #201 (colors as specified).

Corner Box — Aluminum alloy. Has removable closure cover on bottom. Finish to match side panels.

Reflector-Covers — 22 gauge steel. White baked enamel finish. Single-lamp unit with center "V" has reflector covers of extruded aluminum finished in white baked enamel.

Diffusers — As specified.

Sound Attenuator — Extruded aluminum alloy.

Cable Hanger — Made of 3/8" dia., 7 x 7 stranded, stainless steel aircraft cable (length as specified) with factory applied compression fittings. Sliding clamp hanger for Single-Lamp available when specified.

Stem Hanger — 45° swivel top and bottom with 1 1/2" vertical adjustment. White finish.

Ballast — Thermally-protected 60 cycle 110-125V. UL listed, CBM approved. ETL certified.

Wiring — All units pre-wired.

LIGHTING UNITS ONLY (LESS POWER-PACKS)

For 800 ma T12 or 1500 ma T17 Lamps

Lgth., Ft.	Single-Lamp Unit		Twin-Lamp Unit	
	Cat. No.	Each*	Cat. No.	Each*
With Clear Acrylic Lens				
4	CE-1516-4	\$24.25	CE-2526-4	\$35.10
6	CE-1516-6	29.75	CE-2526-6	42.45
8	CE-1516-8	33.45	CE-2526-8	47.95
With Low Brightness Acrylic Lens				
4	CE-1616-4	27.00	CE-2626-4	38.75
6	CE-1616-6	32.50	CE-2626-6	46.10
8	CE-1616-8	36.20	CE-2626-8	47.95
With Aluminum "V" Bottom				
4	CE-1716-4	27.00	.....	.....
6	CE-1716-6	32.50	.....	.....
8	CE-1716-8	36.20	.....	.....

*Price is for (A) Natural color. Standard colors available at extra cost: (G) Aztec Gold, (B) Sandalwood Bronze. Other colors also available on application.

ACCESSORIES

Single-Lamp		Description	Twin-Lamp	
Cat. No.	Each		Cat. No.	Each
End Plates				
CE-1	\$ 1.10	Per Pair	CE-20	\$ 1.85
Junction Boxes				
CE-120L	7.35	2-Way 90°	CE-220L	22.05
CE-120T	7.35	3-Way "T"	CE-220T	22.05
CE-120X	11.00	4-Way "X"	.....	.....

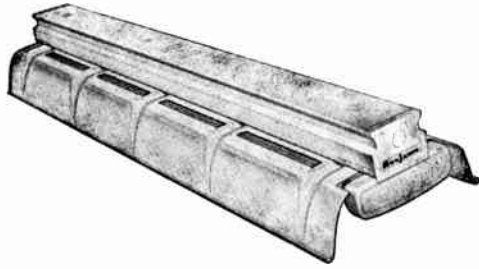
Suspensions for Single- and Twin-Lamps

Cat. No.	Description	Each
CE-600-14	Stem Hanger — 14" (18" O.A.)	\$3.50
CE-600-20	Stem Hanger — 20" (24" O.A.)	3.50
CE-700-14	Cable Hanger — 14" (18" O.A.)	2.40
CE-700-20	Cable Hanger — 20" (24" O.A.)	2.40
CE-701-14*	CE-700-14 w/Sliding Clamp	3.30
CE-701-20*	CE-700-20 w/Sliding Clamp	3.30
CE-404	48" Ext. Wiring Harness	1.40
CE-408	72" or 96" Ext. Wiring Harness	1.40

*For single-lamp only.

BENJAMIN FLUORESCENT LIGHTING

GENERAL LINE INDUSTRIAL SERIES



The reinforced channel is adaptable to the complete line of Benjamin sliding hangers. Continuous rows utilize a simple snap-in concealed coupling. One-piece reflectors feature double embossing for extra strength. New twist-lock reflector thumb latch. Porcelain enamel reflector is finished in double coat porcelain enamel. New metal enclosed Snaplox lampholder assembly. Embossed and flanged reflector and end cap.

40 WATT RAPID-START

Cat. No.†	Description	Length	Each
10% Upward Component Units*			
FL-1024-4	2-Lamp	4'-2½"	\$25.75
FL-1024-8	2-Lamp (Tandem)	8'-4¾"	49.60
FL-1034-4	3-Lamp	4'-2½"	36.75
FL-1034-8	3-Lamp (Tandem)	8'-4¾"	66.15
25% Upward Component Units			
FL-2024-4	2-Lamp	4'-2½"	27.20
FL-2024-8	2-Lamp (Tandem)	8'-4¾"	52.50

800 MA. RAPID-START

10% Upward Component Units*			
FL-1025-4	2-Lamp — 40"***	4'-¾"	37.25
FL-1025-8	2-Lamp — 96"	8'-¾"	44.90
FL-1035-4	3-Lamp — 48"***	4'-¾"	58.80
FL-1035-8	3-Lamp — 96"	8'-¾"	67.60
25% Upward Component Units			
FL-2025-4	2-Lamp — 48"***	4'-¾"	43.55
FL-2025-8	2-Lamp — 96"	8'-¾"	49.00

1500 MA. RAPID-START POWER-GROOVE — SHO — VHO

10% Upward Component Units*			
FL-1026-4	2-Lamp — 48"	4'-¾"	42.25
FL-1026-8	2-Lamp — 96"	8'-¾"	59.80
25% Upward Component Units			
FL-2026-4	2-Lamp — 48"	4'-¾"	48.55
FL-2026-8	2-Lamp — 96"	8'-¾"	64.50

*Solid top reflectors available on request.
**CBM Ballasts not available.
†Specify length of row by suffixing catalog number with nominal row length.
Lamps not furnished.

CORDON CORRIDOR SERIES

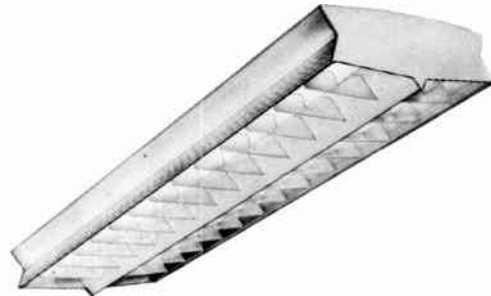


New single-lamp unit designed specifically for corridor lighting applications. The Cordon's clean lines and shallow design make it ideal for most applications. Available in Acrylic or Polystyrene, 4' or 8' lengths. 110-125 volts.

No. of Lamps	Lgth., Ft.	Lens	Cat. No.	Each
1-40RS	4	Polystyrene	CA-2114-4	\$19.45
2-40RS*	8	Polystyrene	CA-2114-8	30.50
1-40RS	4	Acrylic	CA-2214-4	24.70
2-40RS*	8	Acrylic	CA-2214-8	41.15

*Tandem.

VERSATRON SERIES For Individual or Continuous Mounting



This unique new line was designed primarily to meet today's requirements for classroom illumination, however, they are also well suited for all commercial applications. Available in 35°x25° or 40°x45° shielding with a choice of steel, plastic or new illuminated type, perforated side panels.

No. of Lamps	Lgth., Ft.	Shielding	Cat. No.	Each
Steel Sides				
2-40RS	4	35°x25°	CXM-3524-4	\$18.20
4-40RS	4	35°x25°	CXM-3544-4	33.00
2-40RS	4	40°x45°	CXM-4524-4	21.55
2-40RS*	8	40°x45°	CXM-4524-8	43.10
Plastic Sides				
2-40RS	4	35°x25°	CXP-3524-4	18.20
4-40RS	4	35°x25°	CXP-3544-4	33.00
2-40RS	4	40°x45°	CXP-4524-4	21.55
2-40RS*	8	40°x45°	CXP-4524-8	43.10
Illuminated Sides				
2-40RS	4	35°x25°	CXI-3524-4	21.55
4-40RS	4	35°x25°	CXI-3544-4	36.35
2-40RS	4	40°x45°	CXI-4524-4	24.90
2-40RS*	8	40°x45°	CXI-4524-8	49.80

*Tandem.

SPEED-LOCK SUSPENSION SYSTEMS



This new Speed-Lock suspension allows the electrician to install stems and canopies in a matter of seconds without tools.

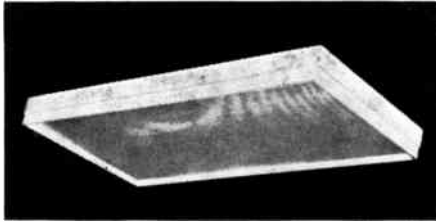
- Universal mounting plate for ¾" or 4" outlet boxes, stud mounting or flat surface.
- No tools required for assembly.
- Easy wire pulling, no stem or leveler obstructions.
- Swivel stem has 45° aligner.
- Full 1½" of vertical adjustment.

Cat. No.	Description	Each
CS-501-18	18" Swivel Stem w/Leveler and Sliding Clamp	\$3.55
CS-401-18	18" Rigid Stem w/Sliding Clamp	2.40
CS-400-18	18" Rigid Stem	1.65
CS-150	1½" Ceiling Spacer for Catalina	.80
CS-151	1½" Ceiling Spacer for Caravel, Coronado, etc.	.80

BENJAMIN FLUORESCENT LIGHTING

CLIPPER SERIES

For Surface Mounting or Lay-In Troffer Application



A Surface Modular or Grid (lay-in) troffer. Here is a versatile unit that can be used either as a surface mounted unit, or suspended, and is also a grid troffer. Features mitered edges, snap-in channel and simplified door frame.

Size	No. of Lamps	Cat. No.		Each
		With L-120 Lens	With Plastic Louver	
For Use With 40W. Rapid-Start Lamps				
1 x 4	2	CM-2124-4	CM-4124-4	\$30.30
2 x 4	2	CM-7124-4	CM-9124-4	45.90
2 x 4	4	CM-7144-4	CM-9144-4	46.80

Can also be suspended if desired.

CUTLASS SERIES

For Recessed Mounting



A Flange Troffer. A completely new unit only 4 1/8" deep with concealed swivel-bar hangers, an exclusive regressed lens, snap-in channel covers and available with complete plaster frames. Available in 1 x 4 and 2 x 4 sizes for use with 2 or 4, 40 watt Rapid-Start lamps.

Size	No. of Lamps	Cat. No.		Each
		With L-120 Lens	With Plastic Louver	
For Use With 40W. Rapid-Start Lamps				
1 x 4	2	CF-2124-4	CF-4124-4	\$32.95
2 x 4	2	CF-7124-4	CF-9124-4	47.80
2 x 4	4	CF-7144-4	CF-9144-4	79.75

Plaster Frames

No. CF-37 for 1 x 4 Unit (complete).....	4.25
No. CF-40 for 2 x 4 Unit (complete).....	4.80

CARAVEL SERIES

For Surface or Suspension Mounting

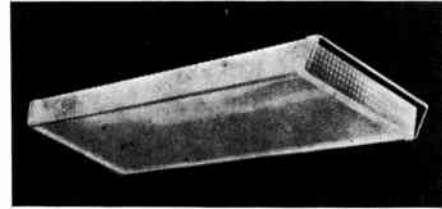


Here is an attractive new wrap-around styling in an economical commercial fixture. Available in 2 or 4-lamp construction, the Caravel features a beautiful 2 in 1 polystyrene "lift" and "shift" lens. Only 3 1/2" deep, these units are perfect for surface or suspension mounting.

No. of Lamps	Cat. No.	Each
For Use With 40W. Rapid-Start Lamps		
2	CA-2124-4	\$20.00
4	CA-2144-4	34.00

CATALINA II SERIES

For Individual or Continuous Mounting



A completely new edition of a popular commercial fixture. The Catalina II includes the new time saving "micro-latch" for perfect, quick positioning of the diffuser. Other improvements include special embossments for ceiling spacing and a new snap-on channel cover.

No. of Lamps	Cat. No.		Each
	With L-120 Lens	With Plastic Louver	
For Use With 40W. Rapid-Start Lamps			
2	CT-2124-4 X	CT-4124 X	\$31.25
4	CT-2144-4 X	CT-4144 X	47.80

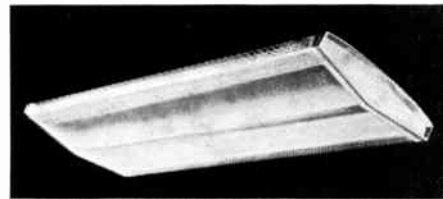
End Caps*

No. CT-2 — 2-lamp (pair).....	1.40
No. CT-4 — 4-lamp (pair).....	1.80

*Each carton contains spacers for continuous mounting. Order end-caps separately; Cat. No. CT-2 (a pair for 2-lamp units); Cat. No. CT-4 (a pair for 4-lamp units).

CORONADO SERIES

For Individual or Continuous Mounting



Here is the timeless beauty of fine design. With the only 3-in-1 lens available, this is the perfect fixture for ceiling mounting—only 2 1/2" apparent depth. Features a finger-touch release latch, and snap-on channel covers. Available in clear prismatic lens or the new Prisopal developed by Benjamin research engineers.

For Use With 40W. Rapid-Start Lamps

No. of Lamps	Width	Length	Cat. No.	Each
Polystyrene Lens				
2	11 1/2"	48 3/8"	CR-2124-4 X	\$25.55
4	16"	48 3/8"	CR-7144-4 X	42.05
Acrylic Lens				
2	11 1/2"	48 3/8"	CR-2224-4 X	34.15
4	16"	48 3/8"	CR-7244-4 X	49.45

End Caps*

No. CR-2 — 2-lamp (pair).....	1.35
No. CR-4 — 4-lamp (pair).....	1.80

*Units are listed for continuous rows. Order end caps separately; Cat. No. CR-2 (a pair for 2-lamp units); Cat. No. CR-4 (a pair for 4-lamp units).

BENJAMIN FLUORESCENT LIGHTING

STRIP LIGHTING



SLIMLINE STRIPS

All units are supplied pre-wired for 118 volt, 60 cycle, AC. High power factor with instant start. UL listed ballasts.

Cat. No.	Lamps	Watts	Lgth., Ft.	Each
Slimline — Individual Lampholders				
C-11-4	1-F48T12	40	4	\$13.35
C-11-8	1-F96T12	40	8	11.65
C-11-16	1-F96T12*	40	16*	21.30
C-21-4	2-F48T12	40	4	17.85
C-21-8	2-F96T12	40	8	11.65
Slimline — Wide Lampholders				
CW-21-4	2-F48T12	40	4	17.85
CW-21-8	2-F96T12	40	8	17.08
CW-41-4	4-F48T12	40	4	31.73
CW-41-8	4-F96T12	40	8	28.15

*Tandem.

HIGH OUTPUT STRIPS

All units supplied pre-wired. Units are for 110-125 volts, 60 cycle. Ballast equipment is listed by UL, CBM approved and certified by ETL.

Cat. No.	Lamps	Watts	Lgth., Ft.	Each
High Output — 800 MA				
CD-15-4	1-F48T12	60	4	\$22.80
CD-15-8	1-F96T12	110	8	25.55
CD-15-16	1-F96T12*	110	16*	32.10
CD-25-4	2-F48T12	60	4	28.15
CD-25-8	2-F96T12	110	8	26.25
Power Groove, Very High Output and Super High Output — 1500 MA				
CD-16-4	1-F48T17	110	4	32.00
CD-16-8	1-F96T17	215	8	32.55
CD-16-16	1-F96T17*	215	16*	39.85
CDW-26-4	2-F48T17	110	4	32.70
CDW-26-8	2-F96T17	215	8	39.20

*Tandem.

ALL-PURPOSE STRIPS

For 110-125 volts, 60 cycle, AC. Baked white enamel finish.

Cat. No.	Lamps	Watts	Lgth., Ft.	Each
Rapid Start — CBM-ETL Ballasts				
C-14-4	1-F40T12	40	4	\$10.42
C-14-8	1-F40T12*	40	8*	16.65
C-24-4	2-F40T12	40	4	10.10
C-24-8	2-F40T12*	40	8*	20.85
C-140	1-F40T12†	40	4	10.20
C-140-8	1-F40T12†	40	8*	13.24
Low Power Factor Ballasts				
C-115	1-F15T8PH	15	1 1/2	3.32
C-120	1-F20T12TS	20	2	3.32
C-130	1-F30T12RS	30	3	5.36
CL-140	1-F40T12RS	40	4	6.32

*Tandem. †High Power Factor Ballast.

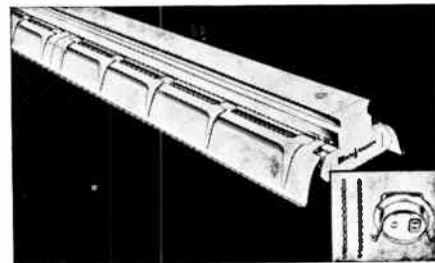
CASCADE ENCLOSED AND GASKETED SERIES



Enclosed and gasketed units designed for use in the food processing industry, parking garages, under canopies, etc. Housing is special Alclad corrosion-resistant aluminum. Diffuser is Acrylic with synthetic sealing gasket. Units have a special slot and hook latch. 110-125 volts. Uses standard ballasts but low temp. available on request.

No. of Lamps	Lgth., Ft.	Cat. No.	Each
2-40RS	4	FE-1724-4	\$ 40.80
2-48"-800ma	4	FE-1725-4	53.90
2-96"-800ma	8	FE-1725-8	76.55
2-48"-1500ma	4	FE-1726-4	65.35
2-96"-1500ma	8	FE-1726-8	106.90

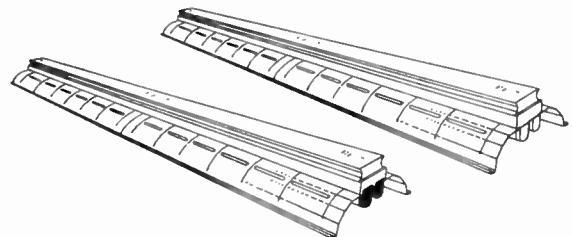
TASK-MASTER INDUSTRIAL SERIES



Designed for today's market, these Task-Master units have been quality engineered to sell at prices competitive with painted units. Finished in lifetime porcelain enamel, Task-Master is available for use with new Power-Groove, SHO or VHO lamps. As an added feature, the new easy-up hanger can cut installation time to minutes.

Description	Cat. No.	Each
2-lamp 40W. Rapid-Start	FM-1024-4	\$21.60
2-lamp 96" Slimline	FM-1021-8	31.80
Fixture Hanger For 3 1/4" or 4" Outlet Boxes		
Includes pair of 5' chains.		
"S" hooks, cord clips and parallel blade receptacle	FL-138	1.55

ALL-PURPOSE INDUSTRIAL SERIES



All-white baked enamel. Ribbed snap-on reflectors. 12 1/2" wide baked paint reflectors.

Cat. No.	Description	Each
B-4265	2-lamp 40W. RS, HPF—CBM-ETL Ballast	\$12.50
B-4271	2-lamp 96" Slimline, UL Ballast	19.30

CURTIS-ELECTRO FLUORESCENT LIGHTING FIXTURES

Mounting: Surface or pendant, individual or continuous. No additional accessories are needed for continuous row surface mounting.

Sides: Polystyrene standard.

Channel: 2, 4 and 8-ft. one-piece channel, including Tandem Rapid Start units.

SKYLOUVER

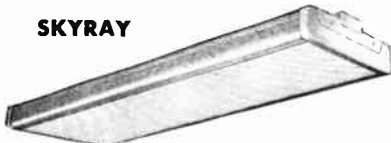


Louvers: Molded polystyrene Polycube. 1/2x1/2x1/2 inch cube (45°x45°); or 1x1x1/2 inch cube (45°x35°).

Cat. No.**	Nom. Lgth. Feet	Lamp Watts	Each	
			45°x45° Shielding	45°x35° Shielding**
Rapid Start Bipin				
2027LPF-TSL	2	2-20	\$22.58	\$21.85
2037LPF-TSL	2	3-20	28.22	27.50
2047LPF-TSL	2	4-20	30.09	28.65
1027	4	2-40	26.12	24.06
1037	4	3-40	34.39	32.33
1047	4	4-40	35.15	33.77
1027-8	8	4-40*	52.09	47.97
1037-8	8	6-40*	62.72	58.68
1047-8	8	8-40*	70.01	67.25
800 M.A. High Output Rapid Start				
1027-800-HO	4	2-60	41.33	39.27
1047-800-HO	4	4-60	64.56	63.19
1127-800-HO	8	2-105	55.47	51.35
1147-800-HO	8	4-105	79.65	76.90
Slimline				
SL1127	8	2-75	48.93	44.81
SL1137	8	3-75	61.95	57.83
SL1147	8	4-75	66.57	63.82

**Cat. Nos. shown are for 45°x45° shielding — for 45°x35° shielding change "7" in Cat. No. to "5"

SKYRAY



Shielding: 90° Crosswise by 90° Lengthwise.

Diffusing Media: Polystyrene Octalens; or Pattern #70 Glass. Prices for other diffusers on request.

Cat. No.†	Nom. Lgth. Feet	Lamp Watts	Each	
			Octalens†	#70 Glass†
Rapid Start Bipin				
2026LPF-TSL	2	2-20	\$22.58	\$24.50
2036LPF-TSL	2	3-20	28.22	30.14
2046LPF-TSL	2	4-20	30.09	33.11
1026	4	2-40	26.12	29.95
1036	4	3-40	34.39	39.33
1046	4	4-40	35.15	41.19
1026-8	8	4-40*	52.09	64.17
1036-8	8	6-40*	62.72	79.21
1046-8	8	8-40*	70.01	90.91
800 M.A. High Output Rapid Start				
1026-800-HO	4	2-60	41.45	45.28
1046-800-HO	4	4-60	67.71	73.75
1126-800-HO	8	2-105	55.47	63.14
1146-800-HO	8	4-105	79.65	91.73
Slimline				
SL1126	8	2-75	48.93	56.60
SL1136	8	3-75	61.95	71.82
SL1146	8	4-75	66.57	78.65

†When ordering—Octalens, prefix Cat. No. with "50-"; #70 Class with "70". *Lamps in Tandem.

RECESSED MAGIC FRAME TROFFERS

ONE-FOOT WIDE UNITS



Just three parts to install — recessed chassis, one-piece reflector plate — wireway and door. Bottom door hinges and locks in position by concealed hinge.

All metal parts die-formed from code gauge steel, rust-proofed and finished with Lifetime "Liquid-Plastic" baked enamel. Complete with all accessories needed for individual or continuous row mounting. Available in a wide variety of shielding media in addition to those listed here.

Type: Flanged. Shielding: 45° x 45°.

Polycube Polystyrene 1/2" Cube Plastic Louver

Cat. No.	Nom. Lgth. Ft.	Lamp Watts	Shpg. Wt. Lbs.	Each
NTME-220-TSL	2†	2-20	23	\$24.26
NTME-320-TSL	2†	3-20	26	27.84
NTME-140	4	1-40	36	27.56
NTME-240	4	2-40	36	27.89
NTME-340	4	3-40	40	34.79
NTME-140-8	8	2-40*	60	47.25
NTME-240-8	8	4-40*	60	53.16
NTME-340-8	8	6-40*	70	61.95

Slimline

NTME-196	8	1-75	55	50.34
NTME-296	8	2-75	60	51.19
NTME-396	8	3-75	70	61.69

For grid ceilings, add prefix "G" to Cat. No. — same price *Tandem. †2-ft. units have Low Power Factor Ballasts.

TWO-FOOT WIDE UNITS



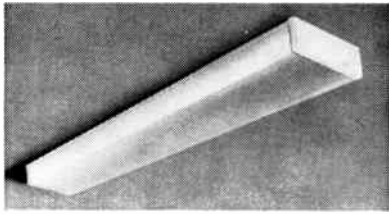
Recess Box: One-piece die-formed code gauge steel. Contains ballast and electrical components. Completely wired. Wireway: Ballasts enclosed in two separate wireways for lower operating temperatures. Bottom Door: Magic Frame.

Cat. No.	Nom. Lgth. Ft.	Lamp Watts	Shpg. Wt. Lbs.	Each
FT2ME-220-TSL	2†	2-20	28	\$29.40
FT2ME-320-TSL	2†	3-20	30	33.01
FT2ME-420-TSL	2†	4-20	32	35.76
FT2ME-240	4	2-40	50	36.75
FT2ME-340	4	3-40	54	44.36
FT2ME-440	4	4-40	54	44.62
FT2ME-640	4	6-40	58	52.50
Prismatic Polystyrene "Octalens"				
FT2M50-220-TSL	2†	2-20	28	29.40
FT2M50-320-TSL	2†	3-20	30	33.01
FT2M50-420-TSL	2†	4-20	32	35.76
FT2M50-240	4	2-40	50	36.75
FT2M50-340	4	3-40	54	44.36
FT2M50-440	4	4-40	54	44.62
FT2M50-640	4	6-40	58	52.50
Corning #70 Glass				
FT2M70-220-TSL	2	2-20	33	34.98
FT2M70-320-TSL	2	3-20	35	38.59
FT2M70-420-TSL	2	4-20	37	41.35
FT2M70-240	4	2-40	62	49.88
FT2M70-340	4	3-40	67	57.49
FT2M70-440	4	4-40	67	57.75
FT2M70-640	4	6-40	72	65.63

For grid ceilings, substitute prefix "G" for "F," for snap-in. "S" for "F," and hook-on (4-ft. only) "H" for "F." Prices on request. †2-ft. units have Low Power Factor Ballasts.

CURTIS-ELECTRO FLUORESCENT LIGHTING FIXTURES

PRISMA



Channel: Die-formed of 20-gauge steel, 2, 4 or 8 ft. long, 9" or 17" wide.

Diffuser: Clear extruded polystyrene prismatic enclosure provide light control through 8-sided prisms. Linear prisms on sidewalls direct light upward toward ceiling.

Metal Parts: Die-formed of code-gauge steel. Finished with lifetime baked enamel.

Electrical: Wired for 110-125-volt, 60-cycle circuits.

Labels: Underwriters' Laboratories and IBEW.

Cat. No.	Nominal Lgth., Ft.	Lamps Watts	Each
B2620-TSL	2	2-20	\$13.75
B4620-TSL	2	4-20	24.68
B2640	4	2-40	15.75
B4640	4	4-40	28.69
B2640-8	8	4-40*	31.50

*Tandem.

SURF-A-LITE



Mounting: Surface

Diffuser: Polystyrene Octalens.

Sides: Plastic, metal or glass. Door: "Magic Frame" principle.

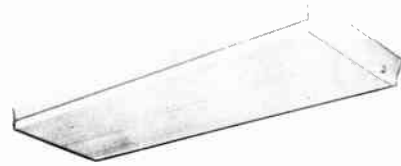
Sizes: Units are available in 2, 4 and 8 ft. lengths and in 12, 17 and 24 inch widths.

Rapid Start Bipin

Cat. No.	Nom. Lgth. Feet	Lamps Watts	Width Inches	Shpg. Wt.	Each
Polystyrene Side Panels					
50-5212P	4	2-40	12	29	\$27.29
50-5417P	4	4-40	17	38	36.73
50-5424P	4	4-40	24	44	40.79
50-5212P-8	8	4-40*	12	58	54.58
50-5417P-8	8	8-40*	17	72	72.01
50-5424P-8	8	8-40*	24	82	80.13
Metal Side Panels					
50-5212M	4	2-40	12	29	25.91
50-5417M	4	4-40	17	38	33.42
50-5424M	4	4-40	24	44	37.49
50-5212M-8	8	4-40*	12	58	51.78
50-5417M-8	8	8-40*	17	72	65.39
50-5424M-8	8	8-40*	24	82	73.51
Glass Side Panels					
50-5212G	4	2-40	12	29	29.06
50-5417G	4	4-40	17	38	38.49
50-5424G	4	4-40	24	44	42.57
50-5212G-8	8	4-40*	12	58	58.12
50-5417G-8	8	8-40*	17	72	75.55
50-5424G-8	8	8-40*	24	82	83.67

*Tandem.

TRIAD



Mounting: Surface, pendant or semi-recessed.

Trim: White or gold.

Diffuser: One piece clear extruded polystyrene or acrylic prismatic enclosure.

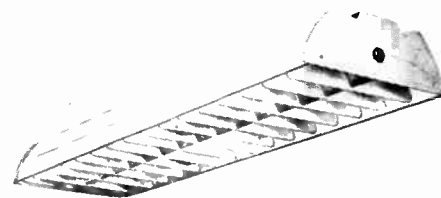
Metal Parts: Die-formed of 20 gauge steel finished with baked white enamel.

Rapid Start

Cat. No.	Nom. Lgth., Feet	Lamp Watts	Each
Gold Trim			
TG-240	4	2-40	\$33.80
TG-240-8	8	4-40*	63.85
TG-440	4	4-40	56.76
White Trim			
TW-240	4	2-40	30.65
TW-240-8	8	4-40*	58.08
TW-440	4	4-40	53.09
No Trim			
T-240	4	2-40	26.25
T-240-8	8	4-40*	51.85
T-440	4	4-40	47.91
Semi-Recessed			
TR-240	4	2-40	28.22
TR-240-8	8	4-40*	53.81
TR-440	4	4-40	50.54

*Tandem.

FORTY-SIXTY SERIES



Alzak Unit — This unit has Alzak aluminum reflectors and louver fins for maximum low brightness.

Steel Unit — The Steel 40/60 has baked white enamel or plastic side reflectors and louver fins made of 20 gauge steel. Finish is baked white enamel.

Rapid Start

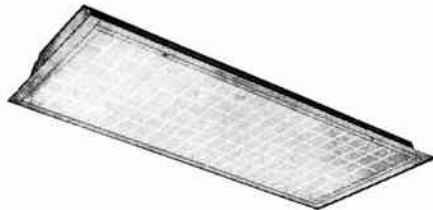
Cat. No.	Nom. Lgth. Feet	Lamps Watts	Shield-ing	Shpg. Wt.	Each
Flat Alzak Fins					
4060-2DK-14	4	2-40	35° x25°	18	\$19.49
4060-4DK-18	8	4-40	35° x25°	36	38.99
4061-2DK-14	4	2-40	35° x45°	18	22.90
4061-4DK-18	8	4-40	35° x45°	37	45.81
White Enamel Side Panels					
4064-2DJ-14	4	2-40	35° x25°	22	19.49
4064-4DJ-18	8	4-40	35° x45°	44	38.99
4065-2DJ-14	4	2-40	35° x45°	23	21.06
4065-4DJ-18	8	4-40	35° x45°	49	42.14
Plastic Side Panels					
4064-2DS-14	4	2-40	35° x25°	22	21.06
4064-4DS-18	8	4-40	35° x25°	44	42.14
4065-2DS-14	4	2-40	35° x45°	23	21.06
4065-4DS-18	8	4-40	35° x45°	49	42.14

DAY-BRITE FLUORESCENT FIXTURES

MOBILEX® RECESSED FIXTURES

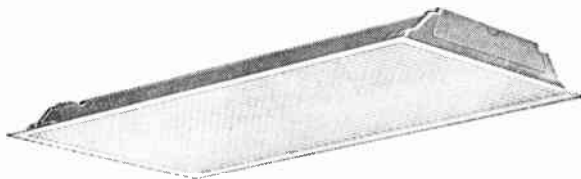
Two and four lamp 24-inch wide Mobilex for single unit or continuous installations. Die-formed steel construction for uniformity and structural stability. Removable wireway cover for easy access to control equipment. Hot-Bonded Super-White enamel finish, rust inhibited. Separable hinges permit enclosing elements to be hinged from either side or completely removed for servicing. Enclosures are secured with fast, positive-action stainless steel trigger latches. Equipped with safety fuses, certified CBM High Power Factor Rapid-Start ballasts and sockets. U.L. listed.

OCTEX ENCLOSURES



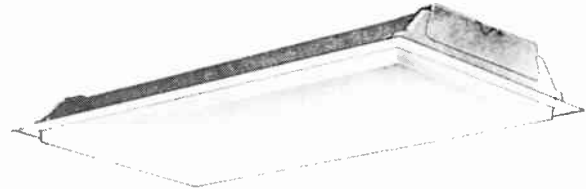
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Octex for Ceiling System "F"				
4F22-783-4	2-4 ft. R.S.	48	24	\$48.70
4F32-783-4	3-4 ft. R.S.	48	24	60.61
4F42-783-4	4-4 ft. R.S.	48	24	59.66
Acrylic Octex for Ceiling System "G"				
4G22-683-4	2-4 ft. R.S.	48	24	45.68
4G32-683-4	3-4 ft. R.S.	48	24	57.58
4G42-683-4	4-4 ft. R.S.	48	24	56.64
Polystyrene Octex for Ceiling System "F"				
4F22-784-4	2-4 ft. R.S.	48	24	43.97
4F32-784-4	3-4 ft. R.S.	48	24	55.88
4F42-784-4	4-4 ft. R.S.	48	24	54.94
Polystyrene Octex for Ceiling System "G"				
4G22-684-4	2-4 ft. R.S.	48	24	40.95
4G32-684-4	3-4 ft. R.S.	48	24	52.86
4G42-684-4	4-4 ft. R.S.	48	24	51.91

WAFFLETEX® ENCLOSURES



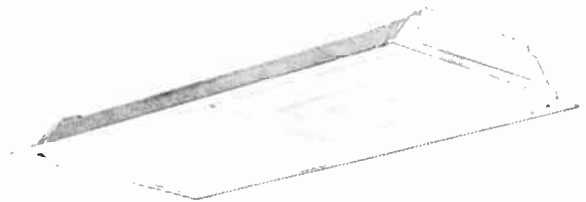
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Waffletex® for Ceiling System "F"				
4F22-789-4	2-4 ft. R.S.	48	24	\$57.96
4F32-789-4	3-4 ft. R.S.	48	24	69.87
4F42-789-4	4-4 ft. R.S.	48	24	68.92
Acrylic Waffletex® for Ceiling System "G"				
4G22-689-4	2-4 ft. R.S.	48	24	54.94
4G32-689-4	3-4 ft. R.S.	48	24	66.84
4G42-689-4	4-4 ft. R.S.	48	24	65.90

CRESTEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Crestex® for Ceiling System "F"				
4F22-793-4	2-4 ft. R.S.	48	24	\$56.70
4F32-793-4	3-4 ft. R.S.	48	24	68.61
4F42-793-4	4-4 ft. R.S.	48	24	67.66
Acrylic Crestex® for Ceiling System "G"				
4G22-693-4	2-4 ft. R.S.	48	24	53.68
4G32-693-4	3-4 ft. R.S.	48	24	65.58
4G42-693-4	4-4 ft. R.S.	48	24	64.64

DAYTEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Polystyrene Daytex® for Ceiling System "F"				
4F22-799-4	2-4 ft. R.S.	48	24	48.89
4F32-799-4	3-4 ft. R.S.	48	24	60.80
4F42-799-4	4-4 ft. R.S.	48	24	59.86
Polystyrene Daytex® for Ceiling System "G"				
4G22-699-4	2-4 ft. R.S.	48	24	45.86
4G32-699-4	3-4 ft. R.S.	48	24	57.77
4G42-699-4	4-4 ft. R.S.	48	24	56.83

STARTEX® ENCLOSURES

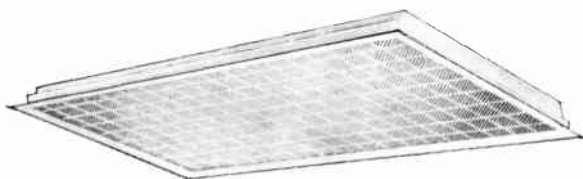
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Startex Glass for Ceiling System "F"				
4F22-778-4	2-4 ft. R.S.	48	24	\$51.85
4F32-778-4	3-4 ft. R.S.	48	24	63.76
4F42-778-4	4-4 ft. R.S.	48	24	62.81
Startex Glass for Ceiling System "G"				
4G22-678-4	2-4 ft. R.S.	48	24	48.83
4G32-678-4	3-4 ft. R.S.	48	24	60.73
4G42-678-4	4-4 ft. R.S.	48	24	59.79

CORNING PATTERN 79 GLASS ENCLOSURES

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Corning Pattern 79 Glass for Ceiling System "F"				
4F22-765-4	2-4 ft. R.S.	48	24	\$49.46
4F32-765-4	3-4 ft. R.S.	48	24	61.36
4F42-765-4	4-4 ft. R.S.	48	24	60.42
Corning Pattern 79 Glass for Ceiling System "G"				
4G22-665-4	2-4 ft. R.S.	48	24	46.43
4G32-665-4	3-4 ft. R.S.	48	24	58.34
4G42-665-4	4-4 ft. R.S.	48	24	57.39

DAY-BRITE FLUORESCENT FIXTURES

NOVI RECESSED FIXTURES
With Frameless Enclosures



A complete line of shallow recessed fixtures in a wide variety of sizes for use in most ceiling systems. Novi fixtures have one-piece steel body and ends. Available with a wide choice of frameless plastic or framed glass or plastic enclosures. Extruded aluminum trim has baked white enamel as standard finish. Also available in anodized aluminum on special order. The regressed splay provides a smooth transition from enclosure to ceiling plane. Internal thermally protected HPF ballast, 4' CBM certified. U. L. listed.

OCTEX ENCLOSURES

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Octex for Ceiling System "F"				
4FT21-W833-4	2-4 ft. R.S.	48	12	\$34.78
2FT22-W483-2	2-2 ft. T.S.	24	24	43.79
2FT42-W483-2	4-2 ft. T.S.	24	24	57.71
4FT22-W883-4	2-4 ft. R.S.	48	24	50.24
4FT32-W883-4	3-4 ft. R.S.	48	24	58.59
4FT42-W883-4	4-4 ft. R.S.	48	24	57.65
Acrylic Octex for Ceiling System "G"				
4GT21-W833-4	2-4 ft. R.S.	48	12	31.63
2GT22-W483-2	2-2 ft. T.S.	24	24	40.01
2GT42-W483-2	4-2 ft. T.S.	24	24	53.93
4GT22-W883-4	2-4 ft. R.S.	48	24	46.43
4GT32-W883-4	3-4 ft. R.S.	48	24	54.81
4GT42-W883-4	4-4 ft. R.S.	48	24	53.87
Polystyrene Octex for Ceiling System "F"				
4FT21-W834-4	2-4 ft. R.S.	48	12	32.70
2FT22-W484-2	2-2 ft. T.S.	24	24	41.52
2FT42-W484-2	4-2 ft. T.S.	24	24	55.44
4FT22-W884-4	2-4 ft. R.S.	48	24	44.98
4FT32-W884-4	3-4 ft. R.S.	48	24	53.36
4FT42-W884-4	4-4 ft. R.S.	48	24	52.42
Polystyrene Octex for Ceiling System "G"				
4GT21-W834-4	2-4 ft. R.S.	48	12	29.55
2GT22-W484-2	2-2 ft. T.S.	24	24	37.74
4GT42-W484-2	4-2 ft. T.S.	24	24	51.66
4GT22-W884-4	2-4 ft. R.S.	48	24	41.20
4GT32-W884-4	3-4 ft. R.S.	48	24	49.58
4GT42-W884-4	4-4 ft. R.S.	48	24	48.64

CLYMATRON® II RECESSED FIXTURES
With Frameless Enclosures

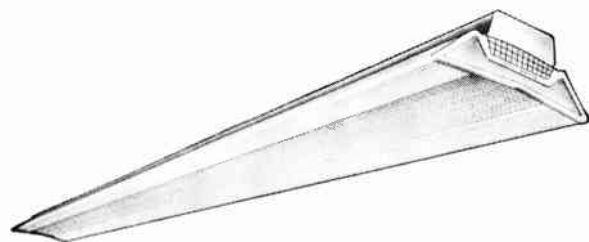


The Clymatron® II accomplishes a major step ahead in lighting and air distribution. One-piece steel body and ends. Extruded aluminum trim and regressed splay complements all interiors. Extruded aluminum trim has baked white enamel as standard finish. Also available in anodized aluminum on special order. A wide choice of frameless or framed enclosures. Positive supply air pattern adjustment from horizontal to vertical. A built-in light trap/dirt trap in return air stream also serves as a housing for the temperature sensing element. U.L. listed. Air-handling components available insulated or uninsulated.

OCTEX ENCLOSURES

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Octex for Ceiling System "F"				
4FC21-N833-4	2-4 ft. R.S.	48	12	\$43.60
4FC21-N833-CX	2-4 ft. R.S.	48	12	43.60
2FC22-N483-2	2-2 ft. T.S.	24	12	50.59
2FC22-N483-CX	2-2 ft. T.S.	24	12	50.59
2FC42-N483-2	4-2 ft. T.S.	24	24	65.84
2FC42-N483-CX	4-2 ft. T.S.	24	24	65.84
4FC22-N883-4	2-4 ft. R.S.	48	12	57.90
4FC22-N883-CX	2-4 ft. R.S.	48	12	57.90
4FC32-N883-4	3-4 ft. R.S.	48	24	68.73
4FC32-N883-CX	3-4 ft. R.S.	48	24	68.73
4FC42-N883-4	4-4 ft. R.S.	48	24	67.79
4FC42-N883-CX	4-4 ft. R.S.	48	24	67.79
Note: CX numbers indicate fill in sections. Other numbers indicate complete units with ends.				
Acrylic Octex for Ceiling System "G"				
4GC21-N833-4	2-4 ft. R.S.	48	12	39.69
2GC22-N483-2	2-2 ft. T.S.	24	24	46.05
2GC42-N483-2	4-2 ft. T.S.	24	24	61.30
4GC22-N883-4	2-4 ft. R.S.	48	24	53.68
4GC32-N883-4	3-4 ft. R.S.	48	24	64.45
4GC42-N883-4	4-4 ft. R.S.	48	24	63.50
*Grid clamps included.				

FAIRVIEW® II AND IV SURFACE MOUNTED FIXTURES



One-piece hinged plastic enclosures, steel reinforced. All metal parts are rust-inhibited and finished in Hot-Bonded Super-White enamel. CBM certified ballasts, individually wired, safety fuses. U.L. listed.

CLEARTEX® ENCLOSURES

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Cleartex® Enclosure — Fairview II				
A47237-4	2-4 ft. R.S.	49	10	\$26.96
A47237-8	4-4 ft. R.S.*	97	10	51.22
A97237-8	2-8 ft. S.L.	97	10	49.64
Polystyrene Cleartex® Enclosure — Fairview II				
P47237-4	2-4 ft. R.S.	49	10	22.24
P47237-8	4-4 ft. R.S.*	97	10	41.77
P97237-8	2-8 ft. S.L.	97	10	40.19
Acrylic Cleartex® Enclosure — Fairview IV				
A47287-4	2-4 ft. R.S.	49	14	34.02
A47287-8	4-4 ft. R.S.*	97	14	63.95
A97287-8	2-8 ft. S.L.	97	14	62.37
A47387-4	3-4 ft. R.S.	49	14	43.09
A47387-8	6-4 ft. R.S.*	97	14	74.53
A97387-8	3-8 ft. S.L.	97	14	73.90
A47487-4	4-4 ft. R.S.	49	14	43.09
A47487-8	8-4 ft. R.S.*	97	14	82.09
A97487-8	4-8 ft. S.L.	97	14	73.90
*Tandem.				

DAY-BRITE FLUORESCENT FIXTURES

RECESSED TROFFERS

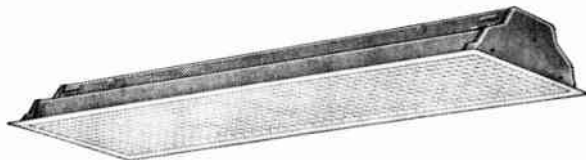
For single unit or continuous installations. Die-formed steel construction for uniformity and structural stability. Removable wireway cover for easy access to control equipment. Hot-Bonded Super-White enamel finish, rust inhibited. Separable hinges permit enclosing elements to be hinged from either side or completely removed for servicing. Secured with fast, easy trigger latches. Safety fuses. HPF certified CBM Rapid-Start ballasts and sockets. U.L. listed.

OCTEX ENCLOSURES



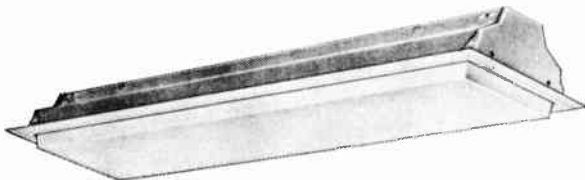
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Octex for Ceiling System "F"				
4F21-733-4	2-4 ft. R.S.	48	12	\$34.27
4F31-733-4	3-4 ft. R.S.	48	12	47.50
Acrylic Octex for Ceiling System "G"				
4G21-633-4	2-4 ft. R.S.	48	12	33.58
4G31-633-4	3-4 ft. R.S.	48	12	46.75
Polystyrene Octex for Ceiling System "F"				
4F21-734-4	2-4 ft. R.S.	48	12	31.69
4F31-734-4	3-4 ft. R.S.	48	12	44.92
Polystyrene Octex for Ceiling System "G"				
4G21-634-4	2-4 ft. R.S.	48	12	31.00
4G31-634-4	3-4 ft. R.S.	48	12	44.16

WAFFLETEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Waffletex® for Ceiling System "F"				
4F21-739-4	2-4 ft. R.S.	48	12	\$38.18
4F31-739-4	3-4 ft. R.S.	48	12	51.41
Acrylic Waffletex® for Ceiling System "G"				
4G21-639-4	2-4 ft. R.S.	48	12	37.49
4G31-639-4	3-4 ft. R.S.	48	12	50.65

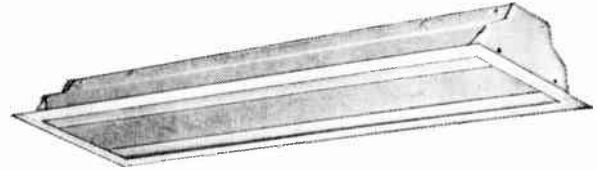
CRESTEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Crestex® for Ceiling System "F"				
4F21-743-4	2-4 ft. R.S.	48	12	\$38.18
4F31-743-4	3-4 ft. R.S.	48	12	51.41
Acrylic Crestex® for Ceiling System "G"				
4G21-643-4	2-4 ft. R.S.	48	12	37.49
4G31-643-4	3-4 ft. R.S.	48	12	50.65

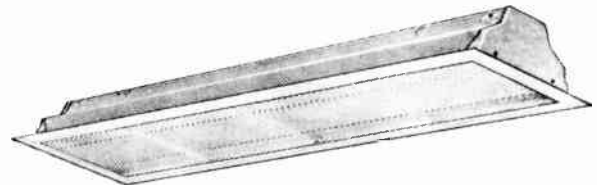
RECESSED TROFFERS

CLEARTEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Polystyrene Cleartex® for Ceiling System "F"				
4F21-740-4	2-4 ft. R.S.	48	12	\$31.12
4F31-740-4	3-4 ft. R.S.	48	12	44.35
Polystyrene Cleartex® for Ceiling System "G"				
4G21-640-4	2-4 ft. R.S.	48	12	30.43
4G31-640-4	3-4 ft. R.S.	48	12	43.60

HOLOPHANE GLASS CONTROLENS® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Glass Controlens* for Ceiling System "F"				
4F21-730-4	2-4 ft. R.S.	48	12	\$41.77
4F31-730-4	3-4 ft. R.S.	48	12	55.00
Glass Controlens* for Ceiling System "G"				
4G21-630-4	2-4 ft. R.S.	48	12	41.08
4G31-630-4	3-4 ft. R.S.	48	12	54.24

*Registered Holophane Co., Inc.

HOLIDAY II SURFACE MOUNTED FIXTURES



New shallower, wider enclosure reduces brightness, increases efficiency and comfort. Wrap-around lens design provides ceiling illumination and floating appearance. One-piece, frameless plastic Controlens® in 4-foot lengths for both 4-foot and 8-foot channels. Slotted mounting washers — no ceiling mounting straps. Invisible latch and hinged arrangement — hand operated. Applied Chrome Mylar end trim covers knockouts. Complete units for single unit or continuous installations.

All metal parts rust-inhibited and finished in Hot-Bonded Super-White enamel. Protected HPF ballasts. U.L. listed.

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Holophane Controlens® Enclosure				
46800-4	2-4 ft. R.S.	48 1/8	11 3/4	\$39.22
46800-8	4-4 ft. R.S.*	96 1/4	11 3/4	76.86

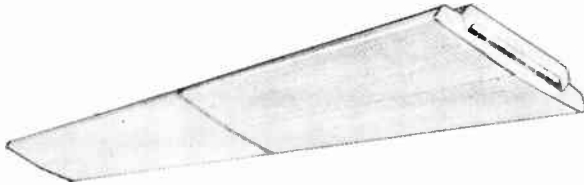
*Tandem.

DAY-BRITE FLUORESCENT FIXTURES

**MARKSMAN® II AND IV
SURFACE MOUNTED AND SUSPENDED FIXTURES**

These units provide high efficiency and low brightness; ideal for schools and offices. Ultra shallow wrap-around prismatic plastic enclosure supplied in 4-foot lengths, metal framed. Trigger latch at each end and service chains speed maintenance. Metal parts are rust-inhibited and finished in Hot-Bonded Super-White enamel. Internal thermally protected HPF ballasts, CBM certified. U. L. listed.

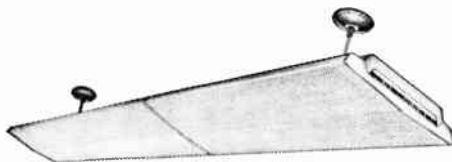
SURFACE MOUNTED MARKSMAN



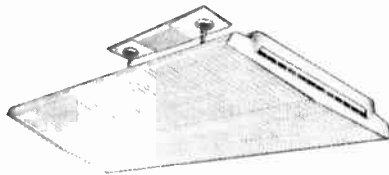
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Enclosure — Marksman II				
A47272-4	2-4 ft. R.S.	48	13	\$33.45
A47272-8	4-4 ft. R.S.*	96	13	65.33
Polystyrene Enclosure — Marksman II				
P47272-4	2-4 ft. R.S.	48	13	26.78
P47272-8	4-4 ft. R.S.*	96	13	51.98
Acrylic Enclosure — Marksman IV				
A47472-4	4-4 ft. R.S.	48	18	45.05

*Tandem.

SUSPENDED MARKSMAN



Marksman II



Marksman IV

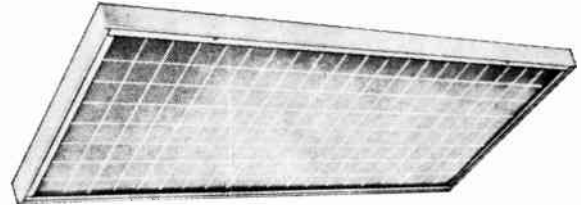
Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Enclosure — Marksman II				
A47262-4	2-4 ft. R.S.	48	13	\$30.24
A47262-8	4-4 ft. R.S.*	96	13	60.04
Polystyrene Enclosure — Marksman II				
P47262-4	2-4 ft. R.S.	48	13	23.56
P47262-8	4-4 ft. R.S.*	96	13	46.68
Acrylic Enclosure — Marksman IV				
A47462-4	4-4 ft. R.S.	48	18	42.78

*Tandem.

DAYLUME® SURFACE MOUNTED FIXTURES

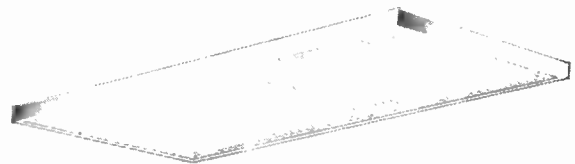
Extremely shallow surface elements, just 3¼" thin. Modern, versatile and easy to install. Body and hinged frame in Hot-Bonded Super-White enamel. CBM ballasts, safety fuses. U.L. listed.

OCTEX ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Octex Enclosure				
2X22-383	2-2 ft. T.S.	23 ¼	24 ⅝	\$35.28
2X24-383	4-2 ft. T.S.	23 ¼	24 ⅝	47.88
2X42-783	2-4 ft. R.S.	23 ¼	48 ⅝	45.80
2X44-783	4-4 ft. R.S.	23 ¼	48 ⅝	56.76
Polystyrene Octex Enclosure				
2X22-384	2-2 ft. T.S.	23 ¼	24 ⅝	32.89
2X24-384	4-2 ft. T.S.	23 ¼	24 ⅝	45.49
2X42-784	2-4 ft. R.S.	23 ¼	48 ⅝	41.08
2X44-784	4-4 ft. R.S.	23 ¼	48 ⅝	52.04

WAFFLETEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each †
		L.	W.	
Acrylic Waffletex® Enclosure				
2X22-389	2-2 ft. T.S.	23 ¼	24 ⅝	\$40.19
2X24-389	4-2 ft. T.S.	23 ¼	24 ⅝	52.79
2X42-789	2-4 ft. R.S.	23 ¼	48 ⅝	55.06
2X44-789	4-4 ft. R.S.	23 ¼	48 ⅝	66.02

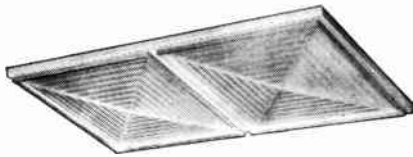
DAYTEX® ENCLOSURES



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Polystyrene Daytex® Enclosure				
2X22-399	2-2 ft. T.S.	23 ¼	24 ⅝	\$35.47
2X24-399	4-2 ft. T.S.	23 ¼	24 ⅝	48.07
2X42-799	2-4 ft. R.S.	23 ¼	48 ⅝	45.99
2X44-799	4-4 ft. R.S.	23 ¼	48 ⅝	56.95

DAY-BRITE FLUORESCENT FIXTURES

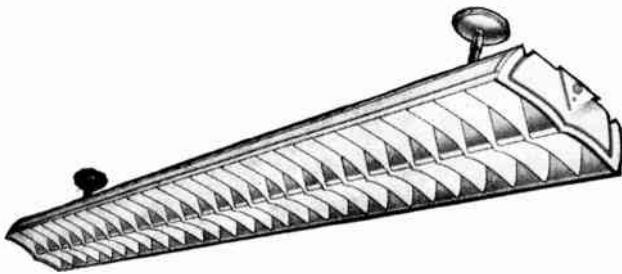
TIARA® SURFACE MOUNTED FIXTURE



Clean modern design, just 3 7/8" slim. Ideal where recessing space is not available. One-piece hinged plastic enclosure. Trigger latches, separable hinges. All metal parts are rust-inhibited and finished in Hot-Bonded Super-White enamel. Protected HPF ballasts. U.L. listed.

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Holophane Controlens® Enclosure				
42550	4-4 ft. R.S.	50	25	\$87.35

LUVEX® SUSPENDED FIXTURES



All metal chassis and enclosure which are completely interlocked at all points resulting in a rigid, one-piece unit that is easily installed. Entire fixture is finished in Hot-Bonded Super-White enamel. Furnished wired and include sockets and HPF ballasts (ETL approved). U.L. listed.

Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Luvex® — 2R Fixture — 35° x 25° Shielding				
R46255	2-4 ft. R.S.	48 1/2	12 3/4	\$20.41
R46455	4-4 ft. R.S.*	96 1/2	12 3/4	37.61
R96265-8	2-8 ft. S.L.	96 1/2	12 3/4	34.59
86265-8	2-8 ft. HO R.S.†	96 1/2	12 3/4	49.14
Luvex® — 4R Fixture — 35° x 25° Shielding				
R46445	4-4 ft. R.S.	48 1/2	21	44.73
R96465-8	4-8 ft. S.L.	96 1/2	21	74.03
Luvex® — 2PG Fixture — 35° x 35° Shielding				
76277-8	2-8 ft. P.G.	96 1/2	11 1/8	68.04
76277-4	2-4 ft. P.G.	48 1/2	11 1/8	47.12
Luvex® — 45 Fixture — 45° x 45° Shielding				
46277-4	2-4 ft. R.S.	48 1/2	11 1/8	22.74
46277-8	4-4 ft. R.S.*	96 1/2	11 1/8	42.34
96277-8	2-8 ft. S.L.	96 1/2	11 1/8	38.81
86277-8	2-8 ft. HO R.S.†	96 1/2	11 1/8	52.16

*Tandem. †800 MA High-Output.

CORRALUME®, CORRALINE® AND CORRALOUVER® SURFACE MOUNTED CORRIDOR UNITS

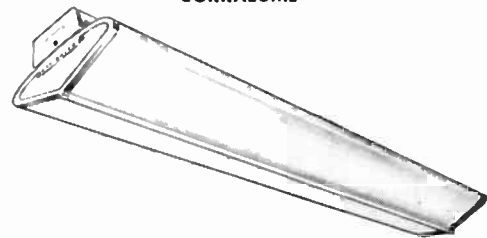
Smart and modern one-lamp fixtures for single unit or continuous installations. Designed for lighting corridors, book shelves and similar long narrow traffic areas.

Corralume and Corraline have hinged plastic enclosures reinforced at top edges and ends by die-formed steel rails and end plates. Corralouver has hinged all-metal louvered enclosure. Louver assembly and reflectors are completely inter-locked for strength and stability.

Supported by separable hinges and can be completely removed and hinged from either side. All metal parts rust-inhibited and finished in Hot-Bonded Super-White enamel.

Equipped with HPF certified CBM Rapid-Start ballasts. Individually wired for single unit or continuous installations.

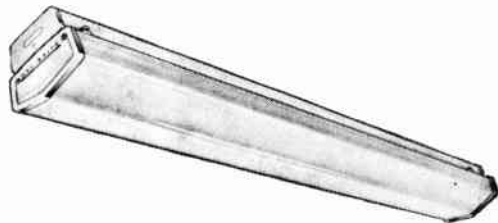
CORRALUME®



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Acrylic Enclosure				
A40140-4	1-4 ft. R.S.	49	8 3/8	\$27.15
A40104-8	2-4 ft. R.S.*	98	8 3/8	46.12
Polystyrene Enclosure				
P40140-4	1-4 ft. R.S.	49	8 3/8	22.05
P40140-8	2-4 ft. R.S.*	98	8 3/8	35.91

*Tandem.

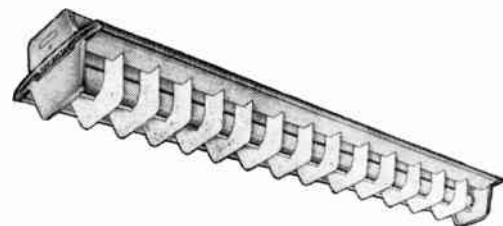
CORRALINE®



Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Polystyrene Enclosure				
40150-4	1-4 ft. R.S.	49	5 5/8	\$22.05
40150-8	2-4 ft. R.S.*	98	5 5/8	35.91

*Tandem.

CORRALOUVER®

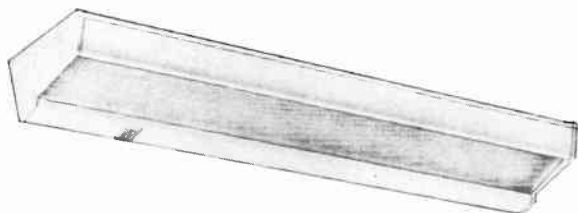


Cat. No.	Lamps	Dimen., In.		Each
		L.	W.	
Metal Louvers				
40160-4	1-4 ft. R.S.	49	7 7/8	\$22.05
40160-8	2-4 ft. R.S.*	98	7 7/8	35.91

*Tandem.

DAY-BRITE FLUORESCENT FIXTURES

EQUALITE, TRANQUILITE AND UTILITY WALL-MOUNTED FIXTURES



UTILITY

Prismatic control of light. Unit is totally enclosed for cleaner operation. Stainless steel trigger latches on hinged enclosure. Equipped with two parallel blade and grounding pin receptacle. Protected HPF ballasts, 4' CBM certified. U.L. listed.

Cat. No.	Lamps	Dimen., In. L. W.	Each
Acrylic Enclosure — Baked White Enamel Finish			
A5220W	2-2 ft. T.S.	25 7½	\$28.48
A5230W	2-3 ft. R.S.	37 7½	32.89
A5240W	2-4 ft. R.S.	49 7½	32.89
Acrylic Enclosure — Stainless Steel Finish			
A5220S	2-2 ft. T.S.	25 7½	39.50
A5230S	2-3 ft. R.S.	37 7½	52.54
A5240S	2-4 ft. R.S.	49 7½	52.54

EQUALITE

Completely enclosed unit for clean, trouble-free operations. Ideal for stores, corridors, wash-rooms, chalk boards, etc., where vertical illumination is desired.

Prismatic plastic enclosure provides excellent light control. Push-lever latches and separable hinges on enclosure require no tools for operation. May be mounted direct to wall or ceiling or may be suspended. Metal parts are rust-inhibited and finished in Hot-Bonded Super-White enamel. Internal thermally protected HPF ballasts, 4' CBM certified. U.L. listed.

Cat. No.	Lamps	Dimen., In. L. W.	Each
Acrylic Enclosure			
25242	2-2 ft. T.S.	25 7½	\$26.46
35242	2-3 ft. R.S.	37 7½	29.61
45242-4	2-4 ft. R.S.	49 7½	27.51
45242-8	4-4 ft. R.S.*	98 7½	57.46

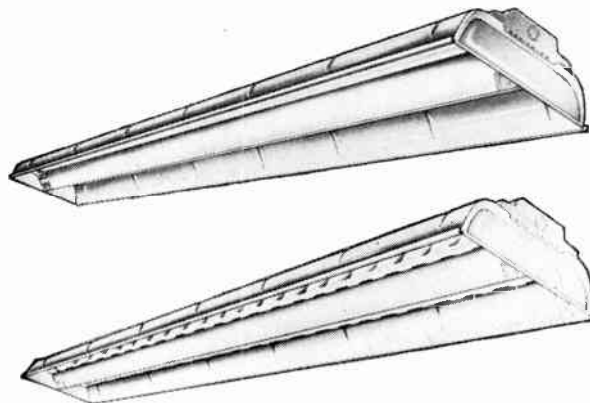
*Tandem.

TRANQUILITE

Totally enclosed wall-mounting units give user choice of upward light, downward light, or both. Prismatic control of light. Choice of stainless steel or Hot-Bonded Super-White enamel. Stainless trigger latches on hinged enclosure. Equipped with two parallel blade and grounding pin receptacle and single-circuit pull switch. Two-circuit switch available on special order. Internal thermally protected HPF ballasts, 4' CBM certified. U.L. listed.

Cat. No.	Lamps	Dimen., In. L. W.	Each
Acrylic Enclosure — Baked White Enamel Finish			
A2220W	2-2 ft. T.S.	25 7½	\$39.31
A2230W	2-3 ft. R.S.	37 7½	42.21
A2240W	2-4 ft. R.S.	49 7½	42.21
Acrylic Enclosure — Stainless Steel Finish			
A2220S	2-2 ft. T.S.	25 7½	50.34
A2230S	2-3 ft. R.S.	37 7½	61.87
A2240S	2-4 ft. R.S.	49 7½	61.87

CFI® PORCELAIN INDUSTRIAL FIXTURES

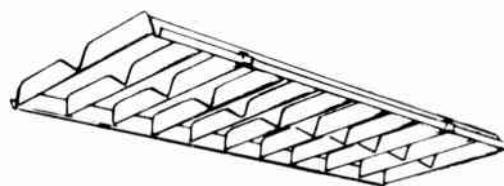


These fixtures have baked porcelain enamel steel reflectors with die-embossed apertures for upward lighting. Baked gray enamel finish channel is of rigidized construction with formations to accommodate sliding clamp hangers and adequate knock-outs for alternate suspension and feed. 8-foot channel sections include couplings. Full fixture ends provided for each complete unit or run. Spring-loaded sockets are removable without disturbing circuit wiring. CBM certified ballasts.

Cat. No.	Lamps	Dimen., In. L. W.	Each
CFI®-10 With 10% Upward Lighting Apertures			
40211-4	2-4 ft. R.S.	50 13%	\$23.31
40411-8	2-4 ft. R.S.*	99% 13%	45.86
40311-4	3-4 ft. R.S.	50 13%	32.26
40611-8	6-4 ft. R.S.*	99% 13%	58.02
90211-8	2-8 ft. S.L.	96% 13%	37.99
90311-8	3-8 ft. S.L.	96% 13%	54.12
80211-8	2-8 ft. HO R.S.†	96% 13%	46.43
80211-4	2-4 ft. HO R.S.†	48% 13%	37.36
80311-8	3-8 ft. HO R.S.†	96% 13%	66.91
80311-4	3-4 ft. HO R.S.†	48% 13%	56.70
CFI®-10 With 15% Upward Lighting Apertures			
70211-8	2-8 ft. P.G.	96% 13%	60.67
70211-4	2-4 ft. P.G.	48% 13%	43.66
CFI®-25 With 25% Upward Lighting Apertures			
R41252-4	2-4 ft. R.S.	50 13%	23.31
R41452-8	4-4 ft. R.S.*	99% 13%	45.86
R91252-8	2-8 ft. S.L.	96% 13%	37.99
R41252-4	2-4 ft. R.S.	50 13%	23.31
R81252-8	2-8 ft. HO R.S.†	96% 13%	46.43
R81252-4	2-4 ft. HO R.S.†	48% 13%	37.36
R71252-8	2-8 ft. P.G.	96% 13%	60.67
R71252-4	2-4 ft. P.G.	48% 13%	43.66

*Tandem. †800 MA High-Output.

HINGED LOUVERS FOR CFI® FIXTURES



Cat. No.	Description	Each
7914-4	For CFI-10 Fixture — 4' R.S.	\$8.63
7915-4	For CFI-10 Fixture — 4' S.L. or 4' 800 MA H.O.R.S.*	8.63
7954-4	For CFI-25 Fixture — 4' R.S.	7.31
7955-4	For CFI-25 Fixture — 4' S.L. or 4' 800 MA H.O.R.S.*	7.31
7957-4	For CFI-25 Fixture — 4' P.G.*	7.94

*Use two per 8-ft. fixture.

DAY-BRITE FLUORESCENT FIXTURES

LITEWAY® INDUSTRIAL FIXTURES



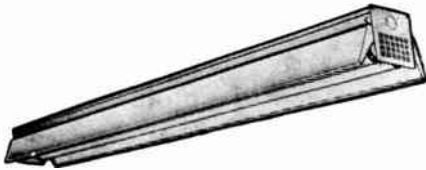
Slim, compact design, engineered for a wide variety of applications in stores, service areas, garages, corridors, utility areas and as supplementary lighting in industrial areas.

Listed for two 4-foot Rapid-Start lamps in 4-foot and 8-foot tandem lengths. 4-foot and 8-foot, one-piece channel and reflectors finished in Hot-Bonded Super-White enamel, rust-inhibited. Slotted reflectors provide uplighting to reduce contrasts. Self-bushed K.O. in ends for thru wiring. May be surface mounted or suspended on hangers. Holes in end plates allow chain suspension. Protected HPF ballasts. U.L. listed.

Cat. No.	Lamps	Dimen., In. L. W.	Each
45295-4	2-4 ft. R.S.	48 12	\$71.07
45295-8	4-4 ft. R.S.*	96 12	34.15

*Tandem.

CHAN-L-ITE® INDUSTRIAL FIXTURES

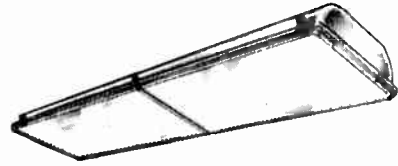


Chan-L-ite fixtures available in one and two row sizes in 4' and 8' channel lengths and can be chain or hanger suspended or surface mounted. Available without reflectors or with asymmetric or symmetric reflectors. All metal parts rust-inhibited and finished in Hot-Bonded Super-White enamel. Specular Alzak aluminum inserts for additional punch available. Internal thermally protected PHF ballasts, CBM certified. U.L. listed.

Cat. No.	Row & Lamps	Dimen., In. L. W.	Each
Without Reflectors — Baked Enamel			
48140-4	1-4 ft. R.S.	48 3 5/8	\$11.47
48140-8	2-4 ft. R.S.*	96 3 5/8	16.51
48240-4	2-4 ft. R.S.	48 3 5/8	12.47
48240-8	4-4 ft. R.S.*	96 3 5/8	23.81
*Tandem.			
Row & Lamps	Baked Enamel Cat. No. Each	Alum. Insert Cat. No. Each	
With Asymmetric Reflectors			
1-4 ft. R.S.	48190-4 \$14.93	48191-4	\$23.25
2-4 ft. R.S.*	48190-8 22.49	48191-8	39.12
2-4 ft. R.S.	48290-4 15.94	48291-4	24.26
4-4 ft. R.S.*	48290-8 30.56	48291-8	47.19
With Symmetric Reflectors			
1-4 ft. R.S.	48195-4 14.93	48196-4	23.25
2-4 ft. R.S.*	48195-8 22.49	48196-8	39.12
2-4 ft. R.S.	48295-4 15.94	48296-4	24.26
4-4 ft. R.S.*	48295-8 30.56	48296-8	47.19

*Tandem.

VAPOR-TIGHT INDUSTRIAL FIXTURES



Single, vapor-tight units for use in locations where moisture or non-combustible dust is present. Die-drawn, one-piece steel body and interior finished in white porcelain enamel. Internal thermally protected HPF ballasts, CBM certified. U.L. listed as "Enclosed and Gasketed" fixture.

Cat. No.	Lamps	Dimen., In. L. W.	Each
Double Strength Clear Glass Enclosure			
41217	2-4 ft. R.S.	48 15 3/8	\$62.37
41317	3-4 ft. R.S.	48 15 3/8	72.39
3/4" Clear Tuf-Flex Glass Enclosure			
41219	2-4 ft. R.S.	48 15 3/8	81.56
41319	3-4 ft. R.S.	48 15 3/8	91.60

VAPORLUME INDUSTRIAL FIXTURES



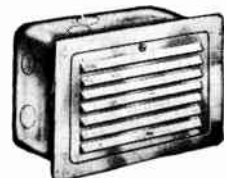
Ideal for use in dairies, meat packing plants, laundries, bottling plants, paper mills, bakeries, textile mills, canneries, parking garages and many other areas where cleanliness, sanitation or enclosed lamps are important. Available on special order with "low temperature" ballasts for operation to 0° F.

The one-piece seamless polyester housing is non-corrosive and designed with minimum surfaces to collect dust and dirt. A neoprene gasket between body and enclosure assures a positive seal to keep out foreign matter and allows fixture to be washed down. Shock hazard is eliminated during washing since entire chassis and enclosure is isolated and material is electrically non-conductive.

Cat. No.	Lamps	Dimen., In. L. W.	Each
Acrylic Enclosure			
41141	1-4 ft. R.S.	49 7 3/8	\$35.84
41241	2-4 ft. R.S.	49 7 3/8	36.38

DAY-BRITE NIGHT LIGHTS

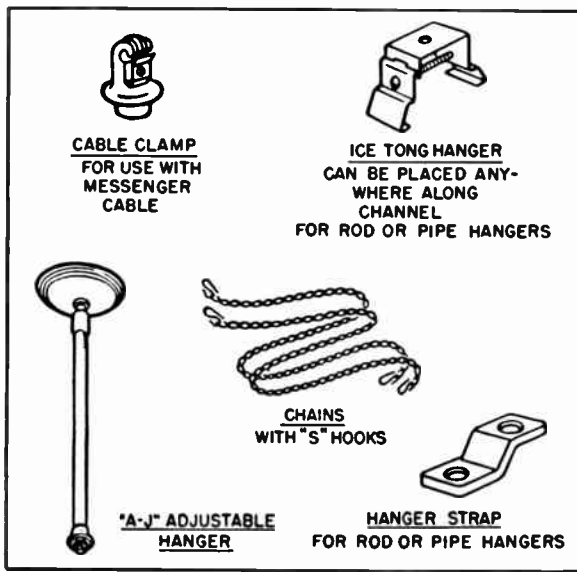
Light has die-drawn recessed box and porcelain socket for one A-19, 40-watt lamp with hinged louvered face. Available in Baked Lustre Aluminum finish and Stainless Steel Face and Frame.



Cat. No.	Finish	Frame Dimen., In. H. W.	Box Dimen., In. D. H. W.	Each
R5085-A	Alum.	6 7/8 8 3/8	3 5 7/8 7	\$ 7.43
R5086	S.S.	6 7/8 8 3/8	3 5 7/8 7	10.21

DAY-BRITE FLUORESCENT FIXTURES

HANGING ACCESSORIES FOR INDUSTRIAL FIXTURES



Cat. No.	Description	Each
Stem-Line Hangers		
R-7108	For 1/2" Pipe K.O. (8" Long).....	\$2.14
R-7124	For 1/2" Pipe K.O. (24" Long).....	2.52
"A-J" Hangers		
7908-E	For 1/2" Pipe K.O. (7 1/4" Long)....	2.21
7924-E	For 1/2" Pipe K.O. (23 1/4" Long)....	2.71
Ice-Tong Hanger Clamp		
R-9952	For 1/2" Conduit, 3/8" Rod or Screws .....	.76
Hanger Straps		
9957-A	For 3/8" Rod or Mtg. Screws.....	.50
9957-B	For 1/2" Conduit Pipe Hangers.....	.50
9957-C	For 3/8" Iron Pipe Hangers.....	.50
Cable Clamp		
9953	Fits 1/2" K.O. in Channel Top.....	1.39
Chains		
9963	Pair 5' Chains w/"S" Hooks.....	.95
Cord and Plug		
9973-2	6' 2-wire Cord and Parallel Blade Plug	1.07
R-9973-3	6' 3-wire Cord and Parallel Blade Plug w/Grounding Pin.....	1.32

DAY-BRITE MERCURY FIXTURES

INDUSTRA INDUSTRIAL FIXTURES



A complete product line of 175, 250, 400 and 1000 watt units designed with a new look, by new principles, for new values in industrial lighting. All the extruded aluminum power packs are completely prewired, fused and contain constant wattage (lamp wattage $\pm 4.5\%$ over an input voltage range of $\pm 10\%$) ballasts.

Designed to operate continuously at 40° C (104° F) ambients. High temperature power packs for ambients up to 55° C (131° F) are available. Specular Alzak reflector furnished for 1000-W, diffuse Alzak and porcelain enamel reflectors available for all other voltages. Sturdy louver rings, for maximum comfort and wire guards are available. U.L. listed.

Volt.	(40° C Ambient)		(55° C Ambient)	
	Cat. No.	Each	Cat. No.	Each
400-Watt Alzak Reflector				
120	4H12-A99	\$71.38	9-4H12-A99	\$72.95
240	4H24-A99	71.38	9-4H24-A99	72.95
277	4H27-A99	71.38	9-4H27-A99	72.95
480	4H48-A99	72.14	9-4H48-A99	73.71
400-Watt Porcelain Reflector				
120	4H12-P99	69.87	9-4H12-P99	71.44
240	4H24-P99	69.87	9-4H24-P99	71.44
277	4H27-P99	69.87	9-4H27-P99	71.44
480	4H48-P99	70.62	9-4H48-P99	72.20
400-Watt Louvered Alzak Reflector				
120	4H12-A99L	77.43	9-4H12-A99L	79.00
240	4H24-A99L	77.43	9-4H24-A99L	79.00
277	4H27-A99L	77.43	9-4H27-A99L	79.00
480	4H48-A99L	78.18	9-4H48-A99L	79.76
400-Watt Louvered Porcelain Reflector				
120	4H12-P99L	75.92	9-4H12-P99L	77.49
240	4H24-P99L	75.92	9-4H24-P99L	77.49
277	4H27-P99L	75.92	9-4H27-P99L	77.49
480	4H48-P99L	76.67	9-4H48-P99L	78.25

Other voltages on special order.

DAY-BRITE EXIT SIGNS



Single Face



Double Face

Extremely thin for surface mounting—recessing not necessary. Single and double face models. Top, end or back mounted thru use of Satin aluminum cast mounting bracket. Hanger available for suspension.

Low wattage consumption (approx. 7 watts) and long lamp life (under normal conditions, 8 years). Plastic face—no breakage—no guards needed.

Satin aluminum frame and sign background. Satin black body. Red or green lettering standard, other color combinations available. Wired with 6" pigtails including six miniature lamps per face—no tools required for servicing. U.L. listed.

Cat. No.	Description	Each
Single Face Signs		
5016	5116 6" Letters—No Arrow.....	\$14.23
5016-R	5116-R 6" Letters—Arrow Rt.	14.87
5016-L	5116-L 6" Letters—Arrow Lt.	14.87
5016-D	5116-D 6" Letters—Dble. Arrow	14.87
Double Face Signs		
5026	5126 6" Letters—No Arrow.....	28.43
5026-RL	5126-RL 6" Letters—Arrow Rt. & Arrow Lt.....	28.43
5026-D	5126-D 6" Letters—Dble. Arrow	28.43

No. 3370	End Mounting Bracket.....	\$1.82
No. 3372	Top Mounting Bracket.....	2.27
No. 3374	24-Inch Stem Hanger.....	3.23

DAY-BRITE INCANDESCENT FIXTURES

RECESSED DERBY DOWNLIGHTS



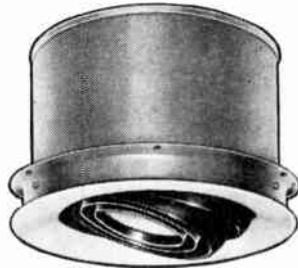
No. R80140
No. 80143



No. 80141



No. 80149

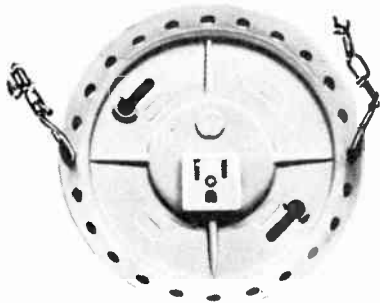


No. 80175

Fixed Derby Downlights are available with louvers, 6 3/4-inch Holophane Controlens and deep baffles. Unit bodies, frames and trim finished in Hot-Bonded Super-White enamel, louvers and baffles in matt black. Adjustable Derby face plate in Hot-Bonded Super-White, louvers in matt black, body and adjusting mechanism in lustre aluminum. All fixture parts are rust-inhibited before painting. Fixtures supplied with flexible conduit, box connector and wire leads as indicated above, but are shipped unwired. UL approved for use with lamps listed below.

Cat. No.	Lamps	Depth, In.	Cell. Open., In.	Each
R80140	PAR-38, 150-W or 100-W, Type A.....	7	7	\$ 8.21
80141	100-W, Type A.....	7	7	10.98
80143	R-40, 150-W or 300-W	7	7	8.91
80149	PAR-38 or R-40, 150-W Spot	11 1/4	9	12.66
R80175	PAR-46, 200-W Spot..	8	10	19.33

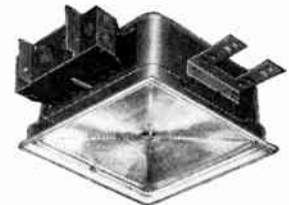
DAY-BRITE "HYDEE" FIXTURE HANGER



Hanger can be used with all chain suspension mounted industrial fixtures. Furnished complete with 15-A, 125-V. receptacle for 2-wire grounding plug, two 5' chains, "S" hooks and cord clamps. Two screws hold hanger to the ears of a standard outlet box or plaster ring. Fits both 3 1/4" and 4" outlet boxes.

No. 5988 "Hydee" Hanger.....each \$1.58

UNI-FRAME® SQUARE RECESSED FIXTURES



Incandescent lens unit for recessing into ceiling, providing medium spread distribution for commercial and residential use.

Box is one piece 20 ga. deep drawn steel. Side mounted outlet box. Pyrex lens is retained by four stainless steel clips in a concealed inner frame which is detachably hinged. Frame is held closed by a spring clip. Reflector is one-piece deep drawn Alzak aluminum which provides mounting for porcelain medium base socket. Type AF wire is attached to socket and terminated in outlet box. Socket for 25 watt nite-light is optional. Box finished in hot-bonded baked aluminum gray enamel. Frame is baked flat white. Anodized aluminum frames in brass or natural aluminum.

Frame Finish	Cat. No.	Height Inches	Ceiling Opening Sq., In.	Each
100-150 Watt Size (Tempered Lens)				
White	W-150-G1	5 1/8	10 1/2	\$13.77
Alum.	A-150-G1	5 1/8	10 1/2	15.06
Brass	B-150-G1	5 1/8	10 1/2	15.71
200-300 Watt Size (Tempered Lens)				
White	W-300-G2	6 1/8	12	18.42
Alum.	A-300-G2	6 1/8	12	21.20
Brass	B-300-G2	6 1/8	12	21.98
100-150 Watt Size (Diffusing Glass Bowl)				
White	W-150-G3	5 1/8	10 1/2	13.77
Alum.	A-150-G3	5 1/8	10 1/2	15.06
Brass	B-150-G3	5 1/8	10 1/2	15.71
200-300 Watt Size (Diffusing Glass Bowl)				
White	W-300-G4	6 1/8	12	18.42
Alum.	A-300-G4	6 1/8	12	21.22
Brass	B-300-G4	6 1/8	12	21.98

No. 1150 Plaster Frame for 100-150W size.....\$2.98
 No. 1300 Plaster Frame for 200-300W size..... 3.05
 Optional Equipment: "CR-2" finish on all steel parts, Night Light Socket installed and wired, and Tamper-Proof latch arrangement.

GRAYBAR distributes the quality products of hundreds of famous manufacturers. Our association with some of these manufacturers has been in effect ten, twenty, fifty and, in several instances, over ninety years.

DAZOR FLOATING-ARM FLUORESCENT LAMPS

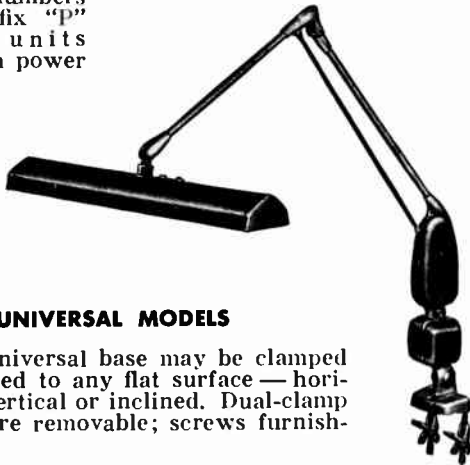


Dazor Floating Fixtures may be raised, lowered, pushed, pulled, turned, tilted to the desired position by a mere touch. Wherever moved, they stay put — held firmly by the Dazor Floating Arm.

Listed by Underwriters' Laboratories, Inc.

For Operation on 118V-60C.

Model numbers with prefix "P" indicate units with high power factor.



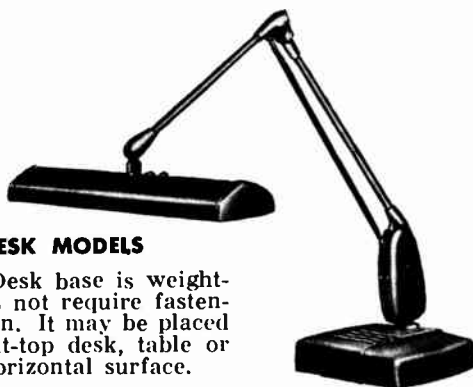
UNIVERSAL MODELS

The Universal base may be clamped or screwed to any flat surface — horizontal, vertical or inclined. Dual-clamp fittings are removable; screws furnished.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For Two T8 15-Watt Tubes				
2124	24"	1	10	\$29.00
2134	34"	1	10	29.00
P-2124	24"	1	10	32.20
P-2134	34"	1	10	32.20
For Three T8 15-Watt Tubes				
124A3	24"	1	10	32.20
134A3	34"	1	10	32.20

DESK MODELS

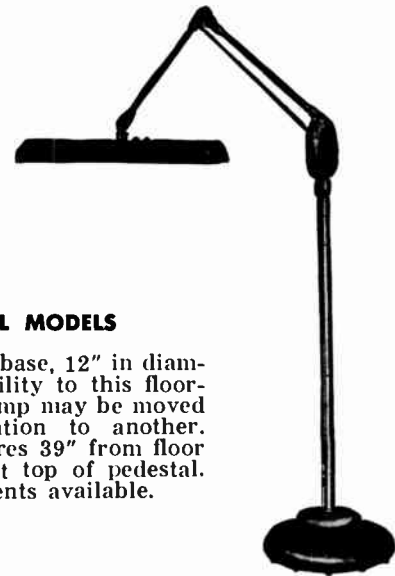
The Desk base is weighted, does not require fastening down. It may be placed on a flat-top desk, table or other horizontal surface.



Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For Two T8 15-Watt Tubes				
2324	24"	1	19	\$35.40
P-2324	24"	1	19	38.60

Standard Finish: Statuary-bronze baked enamel over bonderizing. Optional: gray, frost-green or frost-tan.

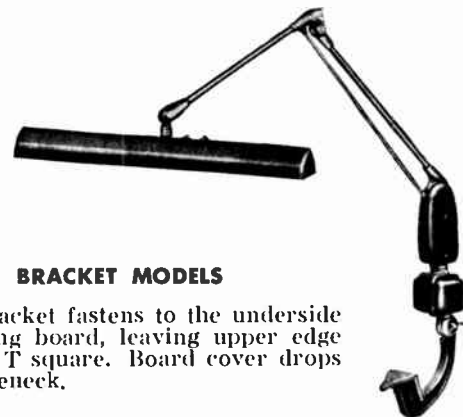
Prices do not include tubes.



PEDESTAL MODELS

A heavy iron base, 12" in diameter, gives stability to this floor-type Dazor. Lamp may be moved from one location to another. Pedestal measures 39" from floor to arm hinge at top of pedestal. Caster attachments available.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For Two T8 15-Watt Tubes				
2224	24"	1	36	\$40.60
2234	34"	1	36	40.60
P-2224	24"	1	36	43.80
P-2234	34"	1	36	43.80



BRACKET MODELS

The bracket fastens to the underside of drawing board, leaving upper edge clear for T square. Board cover drops into gooseneck.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For Two T8 15-Watt Tubes				
2434	34"	1	10	\$29.00
P-2434	34"	1	10	32.20
For Three T8 15-Watt Tubes				
434A3	34"	1	10	32.20



DAZOR POLAROID* FILTER

Fits 2-tube, 15-W Floating Lamps; consists of light-control film, endpieces and screws. Standard packing, 1; shipping weight, 1 lb.

Model No. F-570.....each \$7.80

* ©Polaroid Corp.

DAZOR FLOATING-ARM COMBINATION LAMPS

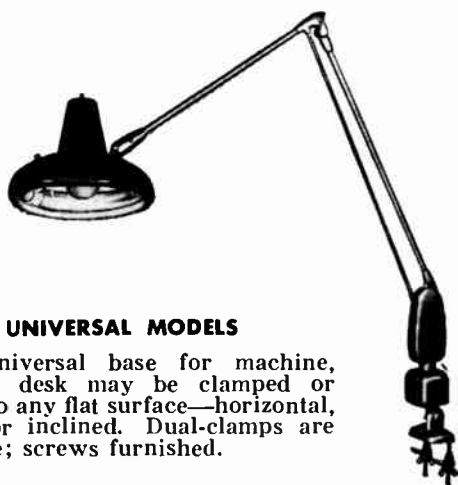
Air-Cooled

REFLECTOR

For Operation on 118V-60C, using a T9 22-W Circline tube and any A-19 size bulb.



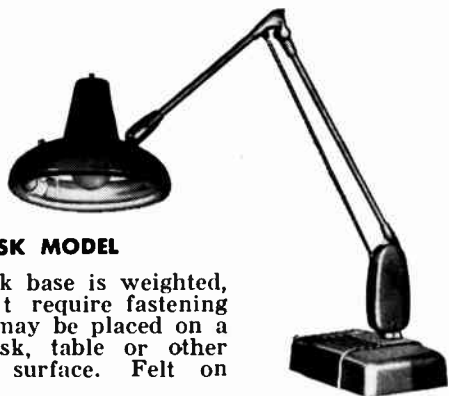
With fluorescent and incandescent lighting combined, true color values are retained, and the good, seeing qualities of both light sources are kept in balance. If either is desired alone, it may be switched on independently. The Air-Cooled reflector is equipped with a porcelain socket.



UNIVERSAL MODELS

The Universal base for machine, bench or desk may be clamped or screwed to any flat surface—horizontal, vertical or inclined. Dual-clamps are removable; screws furnished.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
2C-2124	24"	1	10	\$29.00
2C-2134	34"	1	10	29.00



DESK MODEL

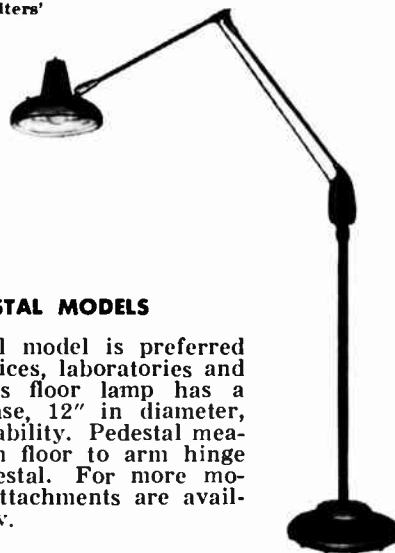
The Desk base is weighted, does not require fastening down. It may be placed on a flat-top desk, table or other horizontal surface. Felt on underside.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
2C-2324	24"	1	19	\$35.40

Standard Finish: Statuary-bronze baked enamel over bonderizing. Optional: gray, frost-green or frost-tan.

Prices do not include tubes or bulbs.

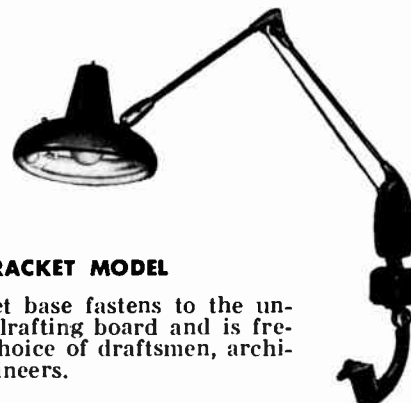
Listed by Underwriters' Laboratories, Inc.



PEDESTAL MODELS

The Pedestal model is preferred by medical offices, laboratories and hospitals. This floor lamp has a heavy iron base, 12" in diameter, which gives stability. Pedestal measures 39" from floor to arm hinge at top of pedestal. For more mobility, caster attachments are available; see below.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
2C-2224	24"	1	35	\$40.60
2C-2234	34"	1	35	40.60



BRACKET MODEL

The Bracket base fastens to the underside of a drafting board and is frequently the choice of draftsmen, architects and engineers.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
2C-2434	34"	1	10	\$29.00

CASTER ATTACHMENTS FOR FLOATING-ARM PEDESTAL MODELS

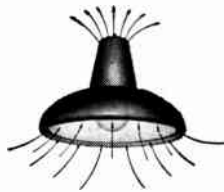
These attach to the base of all Dazor Floating-Arm Pedestal models and permit the fixture to be easily rolled wherever desired.



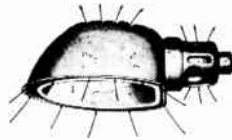
Model No.	Standard Packing	Shipping Wt., Lbs.	Each
X-542	3 casters	13	\$16.20

Standard Finish: Brown-wrinkle baked enamel over bonderizing. Optional: gray or black.

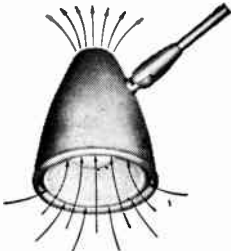
DAZOR FLOATING-ARM INCANDESCENT LAMPS



Wide Reflector



Side-Mounted Reflector



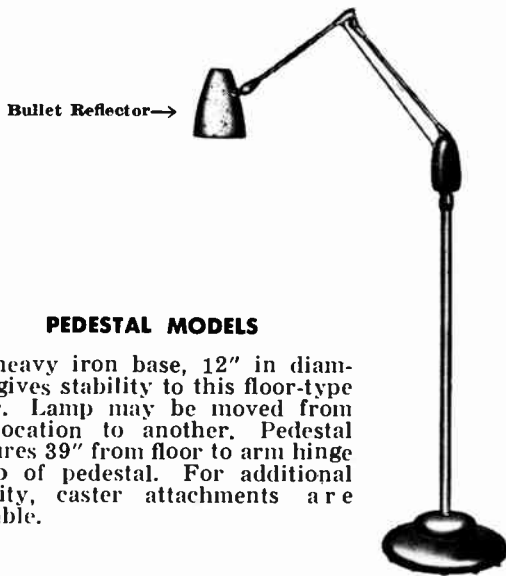
Bullet Reflector



Top-Mounted Reflector

CHOICE OF 4 REFLECTORS

High-intensity lighting is obtained without discomfort by means of these Air-Cooled Dazors. In each of the reflectors, air flowing between the inner reflector and the outer housing carries off heat. The shade is always safe to handle.



Bullet Reflector →

PEDESTAL MODELS

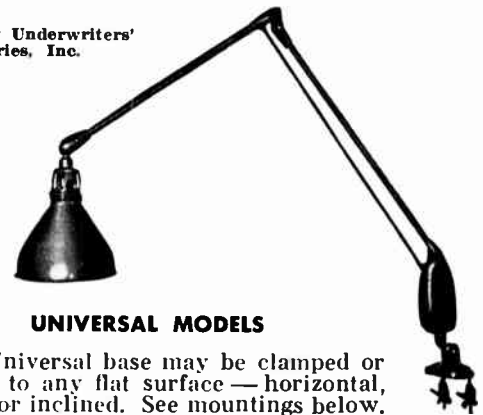
A heavy iron base, 12" in diameter, gives stability to this floor-type Dazor. Lamp may be moved from one location to another. Pedestal measures 39" from floor to arm hinge at top of pedestal. For additional mobility, caster attachments are available.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
Bullet Reflector — 100-W A-19 Bulb				
3604	24"	1	34	\$33.20
3605	34"	1	35	33.20
Wide Reflector — Any A-19 Bulb				
2604	24"	1	35	33.20
2605	34"	1	35	33.20
Top-Mounted Reflector — 60-W Bulb				
604	24"	1	34	31.20
605	34"	1	34	31.20
Side-Mounted Reflector — 60-W Bulb				
1208	24"	1	34	33.20
1210	34"	1	34	33.20

Prices do not include bulbs.

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Top-Mounted Reflector →

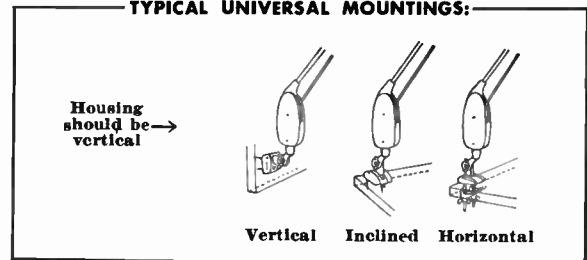


UNIVERSAL MODELS

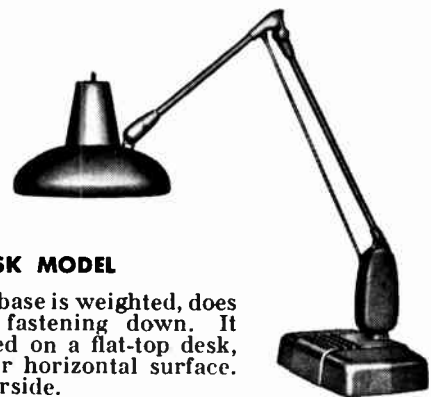
The Universal base may be clamped or screwed to any flat surface — horizontal, vertical or inclined. See mountings below.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
Bullet Reflector — 100-W A-19 Bulb				
3602	24"	1	8	\$21.60
3603	34"	1	9	21.60
Wide Reflector — Any A-19 Bulb				
2602	24"	1	9	21.60
2603	34"	1	9	21.60
Top-Mounted Reflector — 60-W Bulb				
602	24"	1	8	19.60
603	34"	1	8	19.60
Side-Mounted Reflector — 60-W Bulb				
1204	24"	1	8	21.60
1206	34"	1	8	21.60

TYPICAL UNIVERSAL MOUNTINGS:



Wide Reflector →



DESK MODEL

The Desk base is weighted, does not require fastening down. It may be placed on a flat-top desk, table or other horizontal surface. Felt on underside.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
2600	24"	1	18	\$28.00

Standard Finish: Statuary-bronze baked enamel over bonderizing. Optional: gray, frost-green or frost-tan.

Prices do not include bulbs.

DAZOR FLOATING-ARM MAGNIFIERS WITH FLUORESCENT LIGHTING



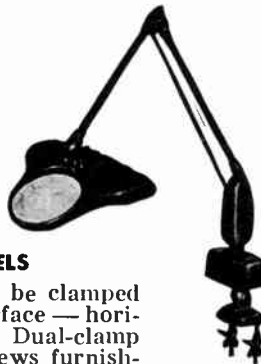
Three T5 6-W Tubes

T9 22-W Circline Tube

Optically correct magnification and cool fluorescent lighting (118V-60C) are combined in these Floating-Arm Fixtures. Choose 3-tube models which furnish incident lighting to emphasize flaws and/or 3-dimensional objects or the Circline models which provide an even field of illumination. The double-convex 5" lens has a focal length of 13", a power of 3 diopters.

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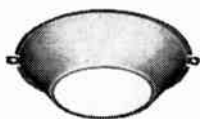
3-Tube Model →



UNIVERSAL MODELS

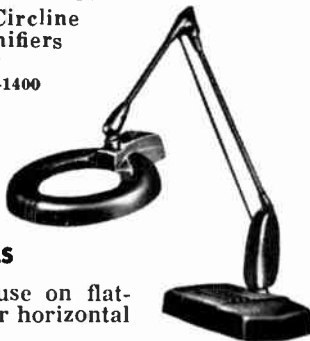
The Universal base may be clamped or screwed to any flat surface — horizontal, vertical or inclined. Dual-clamp fittings are removable; screws furnished.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For a T9 22-Watt Circline Tube				
M-1408	34"	1	10½	\$41.20
M-1409	24"	1	9½	39.60
For Three T5 6-Watt Tubes				
M-208	34"	1	13	43.60
M-209	24"	1	13	42.00



ADD-A-LENS†
for Circline Magnifiers Only
← M-1400

Circline Model →



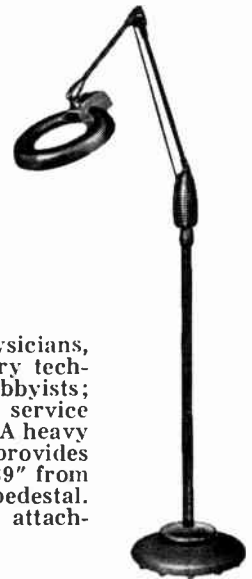
DESK MODELS

Base is weighted; use on flat-top desk, table or other horizontal surface.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For a T9 22-Watt Circline Tube				
M-1470	18"	1	18½	\$46.00
For Three T5 6-Watt Tubes				
M-270	18"	1	20	48.40
ADD-A-LENS† for Circline Magnifiers				
M-1400	.....	1	½	6.60

†Trade-Mark

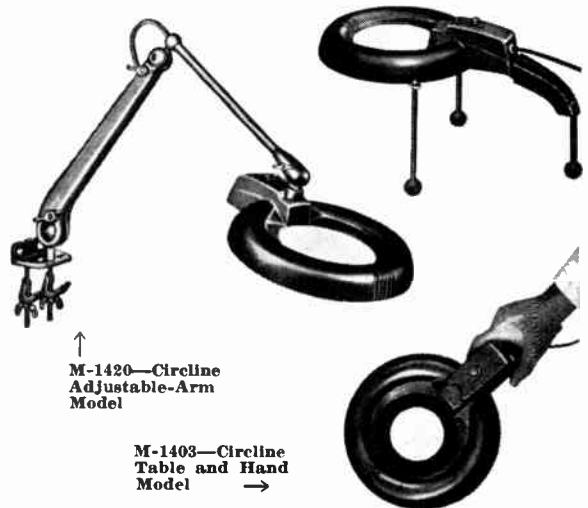
Circline Model →



PEDESTAL MODELS

This model appeals to physicians, first-aid attendants, laboratory technicians, educators and hobbyists; also those in graphic arts, service trades and general industry. A heavy iron base, 12" in diameter, provides stability. Pedestal measures 39" from floor to arm hinge at top of pedestal. For greater mobility, caster attachments are available.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
For a T9 22-Watt Circline Tube				
M-1410	24"	1	37	\$51.20
For Three T5 6-Watt Tubes				
M-210	24"	1	38	53.60



↑ M-1420—Circline Adjustable-Arm Model

M-1403—Circline Table and Hand Model →

ADJUSTABLE-ARM MODEL

Base bolts or screws to horizontal or vertical surface; fittings supplied for clamp-on fastening.

TABLE AND HAND MODEL

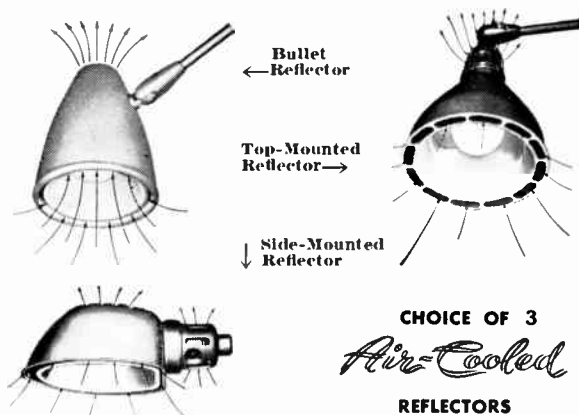
Rests on plastic glides; legs adjustable for focusing, may be removed when used by hand.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
M-1420	20"	1	7½	\$33.20
M-1403	.....	1	6	23.80

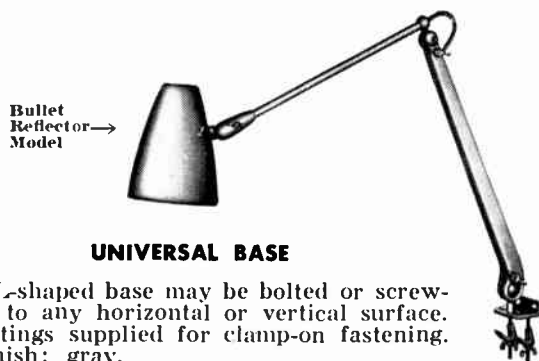
Standard Finish: Statuary-bronze baked enamel over bonderizing. Optional: gray or white. M-1420, in gray only; M-1400, in white only.

Prices do not include tubes.

DAZOR ADJUSTABLE-ARM LAMPS



These low-cost Dazor industrial lamps bring **BETTER LIGHTING, BETTER SEEING** to machine and bench, and they hold a position despite vibration or shock. The three Air-Cooled reflectors meet varied clearance requirements.



UNIVERSAL BASE

L-shaped base may be bolted or screwed to any horizontal or vertical surface. Fittings supplied for clamp-on fastening. Finish: gray.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
Bullet Reflector — 100-W A-19 Bulb				
1104	31"	1	6	\$18.20
1105	20"	1	6	18.20
Side-Mounted Reflector — 60-W Bulb				
1102	31"	1	6	17.40
1103	20"	1	6	17.40
Top-Mounted Reflector — 60-W Bulb				
1100	31"	1	6	15.40
1101	20"	1	6	15.40

BULLET REFLECTOR WITH FLEXIBLE ARM

Air-Cooled reflector has porcelain socket. Universal base may be clamped, screwed or bolted to any horizontal or vertical surface. Uses 100-W A-19 bulb. Finish: gray.

Model No.	Flexible Arm	Std. Packing	Shipping Wt., Lbs.	Each
3075	18"	1	7	\$14.40

Prices do not include bulbs or tubes.



DAZOR ADJUSTABLE-ARM MAGNIFIERS

Listed by Underwriters' Laboratories, Inc.



MAGNIFIER WITH CIRCLINE LIGHTING

This sight booster, with a T9 22-W tube, provides an even field of illumination, for the light rays flood all sides of the object being viewed. The 5" double-convex lens has a focal length of 13", a power of 3 diopters. Operates on 118V-60C. Finish: gray.

Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
M-1420	20"	1	7½	\$33.20



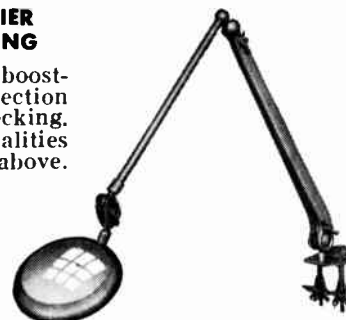
DAZOR ADD-A-LENS†

Increases magnification up to 50% for Circline Magnifiers only. Finish: white.

Model No.	Standard Packing	Shipping Wt., Lbs.	Each
M-1400	1	½	\$6.60

DAZOR MAGNIFIER WITHOUT LIGHTING

A low-cost sight booster for close inspection and periodic checking. Lens has same qualities as Circline model above. Finish: gray.



Model No.	Arm Extension	Standard Packing	Shipping Wt., Lbs.	Each
M-1106	31"	1	6	\$21.40
M-1107	20"	1	6	21.40

TOP-MOUNTED REFLECTOR WITH FLEXIBLE ARM

This Air-Cooled model may be clamped, screwed or bolted to any horizontal or vertical surface. Clamp fittings are removable. Uses 60-W bulb. Finish: gray.

Model No.	Flexible Arm	Std. Packing	Shipping Wt., Lbs.	Each
1075	18"	1	5	\$12.40

Prices do not include bulbs or tubes.



DAZOR DESK AND TABLE LAMPS

FLUORESCENT



PIVOTING-REFLECTOR DESK MODELS

Twin arms thrust the light over the working area. Swivels permit the shade to be tilted up or down. The small steel base allows more workable space. Heavy felt on underside. Finish: frost-green; others on special order.

Model No.	15-W Tubes	Standard Packing	Shipping Wt., Lbs.	Each
2002	2	1	9 1/2	\$19.80
2001	1	1	9 1/2	17.40



Listed by Underwriters' Laboratories, Inc.

FLEXIBLE-ARM DESK MODELS

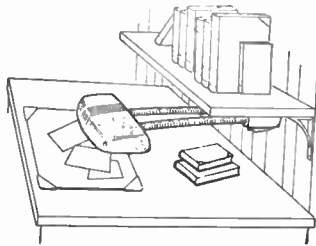
Twin flexible arms easily locate the reflector in the zone of normal usage, 8 to 14" above work area. Heavy felt on underside of base. Finish: statuary-bronze; others on special order.

Model No.	15-W Tubes	Standard Packing	Shipping Wt., Lbs.	Each
1000	2	1	10	\$19.80
1001	1	1	10	17.40



SHELF- or WALL-MOUNTED FLUORESCENT

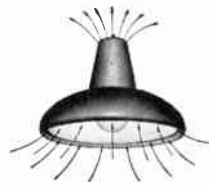
May be mounted on any vertical or inclined surface or to underside of a shelf. It is an ideal student lamp where a small study desk is used, such as in dormitories. Finish: statuary-bronze; others on special order.



Model No.	15-W Tubes	Standard Packing	Shipping Wt., Lbs.	Each
7000	2	1	9	\$19.80

Fluorescents operate on 118V-60C.

INCANDESCENT



← Air-Cooled Wide Reflector Model 2068

Air-Cooled → Bullet Reflector Model 3068

AIR-COOLED SOLID BRASS ARM MODELS

These lamps have long, graceful, solid-brass arms that have swivel at base. The wide reflector spreads the light, the bullet concentrates it. Finish: frost-green; others on special order.



Model No.	A-19 Bulb	Standard Packing	Shipping Wt., Lbs.	Each
2068	100-W	1	14	\$17.40
3068	100-W	1	11	17.40

AIR-COOLED FLEXIBLE-ARM MODELS

Model 2069, illustrated →
Model 3069, Bullet Reflector



Here's a choice of models to fit the individual or job requirements. Select the reflector which gives you the spread of light you desire. The flexible arm allows adjustment. Finish: frost-green; others on special order.

Model No.	A-19 Bulb	Standard Packing	Shipping Wt., Lbs.	Each
2069	100-W	1	14	\$15.40
3069	100-W	1	12	15.40

AIR-COOLED MODELS FOR MACHINE OR BENCH

Model 1075, illustrated →
Model 3075, Bullet Reflector

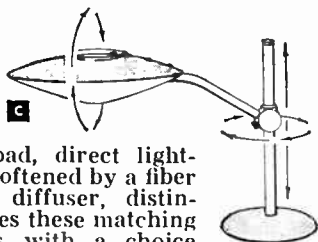
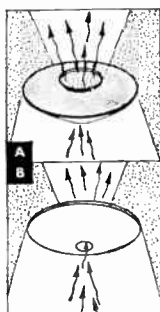


These ventilated reflectors and the 18" flexible arms bring personalized light to the low-priced market. Model 3075 has a porcelain socket. Both may be clamped or screwed to horizontal or vertical surface. Finish: gray.

Model No.	Bulb Size	Standard Packing	Shipping Wt., Lbs.	Each
1075	60-W	1	5	\$12.40
3075	100-W	1	7	14.40

Prices do not include tubes or bulbs.

DAZOR FIBER GLASS INCANDESCENT LAMPS



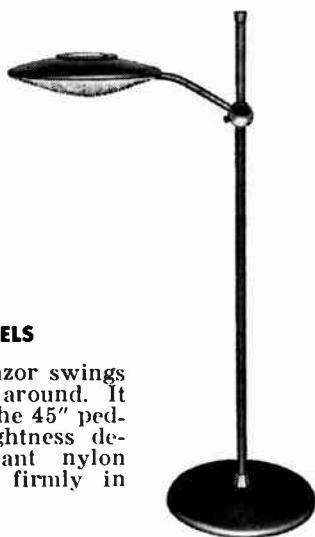
Broad, direct lighting, softened by a fiber glass diffuser, distinguishes these matching lamps with a choice of solid-brass or color-matching arm.

- A. The perforations in the top permit air to carry bulb heat away for cooler lighting, safe handling.
- B. The fiber glass diffuser provides softened illumination. The bottom opening admits air for natural ventilation and aims a beam of light onto the working area.
- C. Swing-Arm models revolve 360°. Nylon slides permit vertical adjustment

Listed by Underwriters' Laboratories, Inc.

SWING-ARM PEDESTAL MODELS

The arm on this Dazor swings freely and completely around. It slides up or down on the 45" pedestal to give the brightness desired. A wear-resistant nylon slide holds the arm firmly in place.



Model No.	Arm Length	Standard Packing	Shipping Wt., Lbs.	Each
With Solid-Brass Arm				
2005	13"	1	17½	\$33.80
With Color-Matching Arm				
2010	13"	1	17½	29.80

CLASSIC TABLE AND DESK MODEL

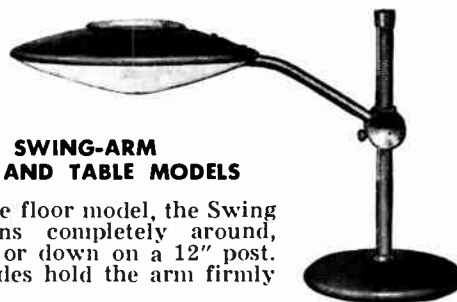
This symmetrical design is decorative in any setting. Lamp has solid-brass cone housing, and the center post has solid-brass rings at top and bottom.



Model No.	Height	Standard Packing	Shipping Wt., Lbs.	Each
2055	13"	1	6	\$15.40

SWING-ARM DESK AND TABLE MODELS

Like the floor model, the Swing Arm turns completely around, slides up or down on a 12" post. Nylon slides hold the arm firmly in place.



Model No.	Arm Length	Standard Packing	Shipping Wt., Lbs.	Each
With Solid-Brass Arm				
2004	13"	1	14	\$27.80
With Color-Matching Arm				
2008	13"	1	14	23.80

GRACEFUL DESK AND TABLE MODELS

This charming, decorative lamp, 14" high, adds brightness to any room.



Model No.	Height	Standard Packing	Shipping Wt., Lbs.	Each
With Solid-Brass Arm				
2003	14"	1	6	\$21.40
With Color-Matching Arm				
2006	14"	1	6	17.40

SWIVEL-ARM DESK AND TABLE MODEL

This executive-type Dazor locates the light wherever desired. Its solid-brass arm extends from the solid-brass cone housing to the swivel knob.



Model No.	Arm Length	Standard Packing	Shipping Wt., Lbs.	Each
2056	13"	1	11½	\$22.60

Standard Finish: Frost-green baked enamel over bonderizing, combined with brass. Optional: frost-tan, statuary-bronze, Pacific coral, colonial white, gray or ebony.

Prices do not include bulbs.

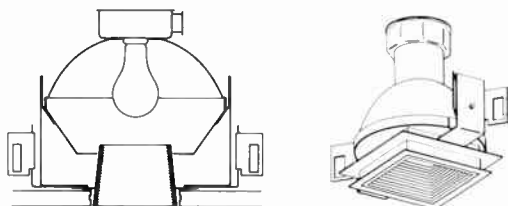
GOTHAM RECESSED AND SURFACE COMMERCIAL INCANDESCENT LIGHTING

Auxiliary Junction Box on Mounting Frame Available at Added Cost. To Specify, Add Prefix JB to Catalog No.

RECESSED MICRO-GROOVE DOWNLITES

General service or silvered bowl lamp, Alzak reflector, square aperture baffle.

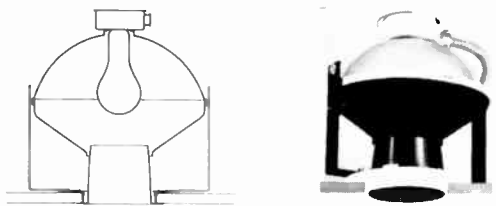
Optically precise instrument designed to produce wide-angle distribution with sharp visual cut-off at 45°. Perfectly spaced micro-grooves trap spill light which usually produces glare.



9800		8060		
Cat. No.	I.F. Lamp	Aperture Sq., In.	Height, In.	Each
8050	100W A-19	4 7/8	8 1/8	\$24.22
8060	150W A-23	4 7/8	10	24.79
8220	200/300W PS-30	5 1/2	12 1/2	32.83
9800	100W A-21 Silvered Bowl	4 1/2	11 1/4	30.07
9820	150W PS-25 Silvered Bowl	5 1/8	14 7/8	37.72
9840	200W PS-30 Silvered Bowl	5 1/8	15 3/4	37.72

RECESSED LOW BRIGHTNESS DOWNLITES
100/150/200/300/500 Watt

Silvered bowl lamp, Alzak reflector, surface trim. Precision optical instrument engineered to produce medium beam distribution with sharp visual cut-off at 45°. Cylindrical baffle has polished black finish to eliminate brightness at the aperture. Utilizes inside frosted silvered bowl lamp. Mounting frame included.

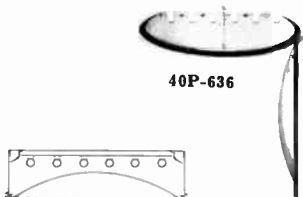


Cat. No.	I.F. Lamp	Aperture Dia., In.	Max. Dia., In.	Height, In.	Each
980*	100W A-21	4 5/8	10 7/8	11 3/4	\$26.82
982*	150W PS-25	5 1/2	15	16	34.59
984*	200W PS-30	5 1/2	15	17	34.59
986*	300W PS-35	6 7/8	17 1/4	18 3/4	56.55
988*	500W PS-40	9 7/8	17 1/4	20	65.72

*In certain localities codes require accessibility to these units from above the ceiling.

RECESSED CONCAVE DIFFUSER LUMINAIRES

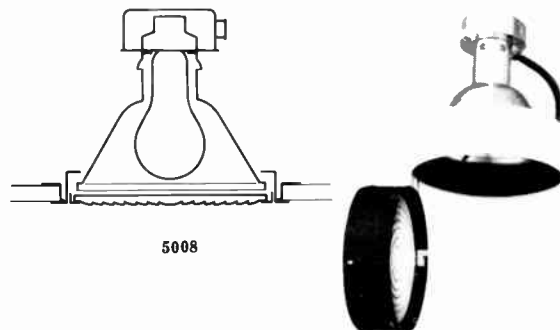
Fluorescent luminaires utilizing concave translucent acrylic diffusers provide soft overall lighting.



Cat. No.	Lamps	Trim O.D., In.	Housing Sq., In.	Height, In.	Each
40P-624	(6) 20W	25 1/2	25 1/2	9	\$123.27
40P-636	(6) 30W	37	36 1/2	12	173.12
40P-848	(8) 40W	49 3/4	48 1/2	12	195.34

RECESSED FRESNELENS DOWNLITES

Highly efficient wide-angle general illumination downlights incorporating the exclusive Gotham fresnelenses and Alzak reflectors.



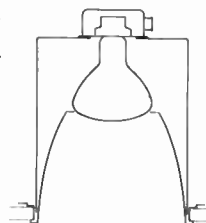
Cat. No.	I.F. Lamp	Lens Dia., In.	Height, In.	Each
5006	100W A-21	6 5/8	7	\$18.07
5206	100W A-21	6 5/8	8 1/8	18.51
5007	150W A-23	6 5/8	8 5/8	18.80
5207	150W A-23	6 5/8	9 1/8	20.74
5008	150W A-23	8 3/8	8 1/4	22.32
5208	150W A-23	8 3/8	9 7/8	24.43
5009	200W PS-25	8 3/8	8 7/8	23.04
5209	200W PS-25	8 3/8	10 3/8	25.20
5011	200/300W PS-30	11 1/4	10 1/8	28.35
5211	200/300W PS-30	11 1/4	12 1/4	30.10

Shallow fresnelens downlights are available at added cost for use where ceiling depth is limited. To specify, add prefix FH to catalog number.

RECESSED OPEN REFLECTOR DOWNLITES

Reflector flood lamp, Alzak reflector, minimum trim.

Modified elliptical semi-specular Alzak reflector gathers spill light from the lamp and redirects it into useful zones. Narrow beam and low apparent brightness in the normal field of view with 45° lamp shielding. Top servicing is a standard feature (except No. R946).



Cat. No.	Lamp	Aperture Dia., In.	Height, In.	Each
R928*	150W PAR-38 Flood	5 1/2	11 1/8	\$26.45
R941*	200W PAR-46 Spot or Flood Side Prong	7 1/2	12 3/8	38.05
R942	150/300W R-40 Flood	9 3/8	13 3/8	37.10
R943*	300W PAR-56 Spot or Flood End Prong	9 3/8	15 1/8	39.52
R944	300/500W R-40 Flood Mogul Base	9 3/8	14 3/4	28.15
R945	30/50W R-20 Flood	3 3/8	9	19.73
R946	30/50W R-20 Flood	4 3/8	7 7/8	18.48
R947	75W R-30 Flood	6 3/8	10 1/8	23.06
R948	150W PAR-38 Flood	7 1/2	11 1/8	24.09

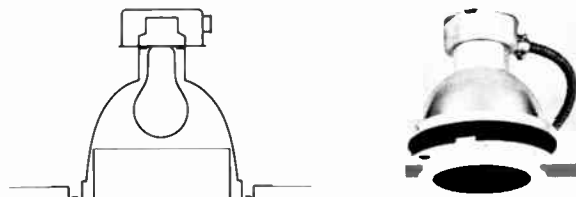
*Black specular Alzak finish on reflectors is standard.

GOTHAM RECESSED AND SURFACE COMMERCIAL INCANDESCENT LIGHTING

Auxiliary Junction Box on Mounting Frame Available at Added Cost. To Specify, Add Prefix JB to Catalog No.

**RECESSED LOW BRIGHTNESS DOWNLITES
100/150/200/300 Watt**

General service lamp, Alzak reflector.
Optically precise Alzak reflector downlites designed to produce wide-angle distribution with sharp visual cut-off at 45°. Inexpensive general service inside frosted lamp can be replaced through aperture by hand or pole without removing parts. Top servicing is a standard feature.



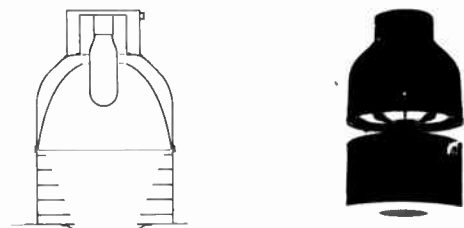
Cat. No.	Trim	I.F. Lamp	Aperture Dia., In.	Height, In.	Each
801	Surface	100W A-21	5 1/8	9 1/8	\$18.14
802	Surface	150W A-23	5 1/8	10 1/8	18.14
821	Surface	200/300W PS-30	6	12 1/8	27.37
823	Surface	200/300W PS-30	5 7/8	13 1/2	28.59
803*	Min. Dia.	100W A-21	5 1/8	9 1/8	18.96
806*	Min. Dia.	150W A-23	5 1/8	9 7/8	19.47
813*	Min. Dia.	100W A-21	5 1/8	9 1/8	19.47
816*	Min. Dia.	150W A-23	5 1/8	9 7/8	19.47
822*	Min. Dia.	200/300W PS-30	6	12 5/8	28.59
832*	Min. Dia.	200/300W PS-30	6	12 5/8	28.59

Shallow low brightness downlites are available at added cost for use where ceiling depth is limited. To specify, add prefix FH to catalog number.

*In certain localities codes require accessibility to these units from above the ceiling.

**RECESSED HIGH-BAY DOWNLITES
300/500/750/1000 Watt**

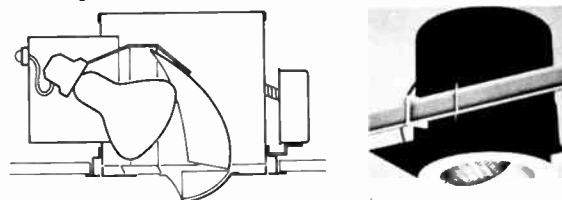
Medium bi-post lamp, Alzak reflector.
Optically precise Alzak reflector downlites designed to produce medium beam distribution with sharp visual cut-off at 45°. Lamp can be replaced through aperture by hand without removing parts. Top servicing is a standard feature. With unit Nos. 873 and 893 accessibility from above the ceiling is required.



Cat. No.	I.F. Lamp	Aperture Dia., In.	Height, In.	Each
861	300/500W T-20	6 1/4	23 3/8	\$82.25
873	300/500W T-20	6 1/4	23 3/8	88.13
881	750/1000W T-24	6 1/4	25 1/8	93.80
893	750/1000W T-24	6 1/4	25 1/8	89.74

RECESSED WALL WASHER DOWNLITES

Scientifically developed optical instrument designed to produce a broad vertical sheet of light, free of striations and hot spots. Ideal for lighting focal walls, paintings, draperies, tapestries, sculpture and stock quotation boards.



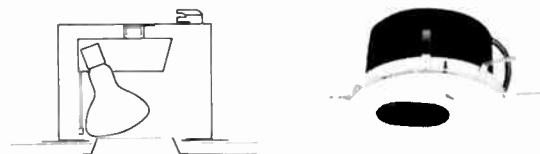
Cat. No.	Trim	Lamp	Height, In.	Each
587R†	Flush & Surface	150/300W R-40 Flood	9	\$52.50
588*	Surface	150W PAR-38 Floor or 300W R-40 Spot	11 7/8	51.72
598*	Flush	150W PAR-38 Flood or 300W R-40 Spot	11 7/8	51.72

*In certain localities codes require accessibility to these units from above the ceiling.

†Auxiliary junction box on mounting frame is standard.

RECESSED ADJUSTABLE ACCENTLITES

Universal lamp adjustments produce maximum flexibility for dramatic lighting through the use of exclusive lamp tilting devices. Unit Nos. 552R and 562R have played trims.



Cat. No.	Trim	Spot or Flood Lamp	Aperture, In.	Height, In.	Each
552R*	Flush	150W PAR-38, 150/300W R-40	5 7/8	11 3/8	\$24.30
562R*	Surf.	150W PAR-38, 150/300W R-40	5 7/8	11 3/8	25.05
574	Surf.	150W PAR-38	5 3/4	10 1/8	22.93
579	Surf.	150W PAR-38, 200W PAR-46	6 3/4 x	9 1/8	37.66
579-300	Surf.	Side Prong 300W PAR-56	4 1/2 x	10 3/8	52.25
580R	Surf.	Side Prong 150W PAR-38 or R-40	4 1/2 x	11	29.26

*In certain localities codes require accessibility to these units from above the ceiling.

CYLINDERLITE SERIES

Two basic types: precisely contoured black specular Alzak reflector which redirects all spill light into useful zones, or 3M velvet black finish to eliminate surface glare and reduce brightness at aperture. Exterior finish is satin white baked enamel.



Cat. No.	Flood Lamp	Reflector Interior	Each
P958B	150W PAR-38	Alzak	\$37.49
P9581	150/300W R-40	3M	26.56
W958B	150W PAR-38	Alzak	37.49
W9581	150/300W R-40	3M	26.56
S958B	150W PAR-38	Alzak	28.62
S9581	150/300W R-40	3M	18.09

Letter "P" preceding catalog number indicates Pendant mounted, letter "W" for Wall mounted and letter "S" for Surface mounted.

GUTH LIGHTING FIXTURES

PRISMAROUND®



Prismaround has self-cooling action—engineered to overcome excessive operating temperatures. The polystyrene “basket” design is a rugged 3/8" thick shield. Baskets can be hinged from either side. All 40W units are U.L. listed for Low Density Ceilings with thermal reset ballasts.

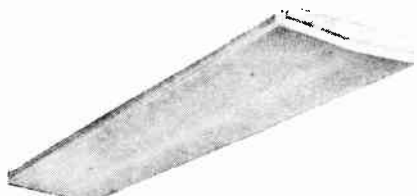
All units feature Acrylic White finish, baked-on. Wired for 120-volt, 60 cycle A.C. operation. High-power-factor series type, CBM/ETL listed, internally-fused 40W Rapid Start and 75W Slimline ballasts.

Cat. No.	Lamp Wattage	Nominal Size, In.			Each
		L.	W.	H.	
Without Top Plates					
M6590†	2-40	48 1/8	11	3 3/4	\$24.48
M6591†	4-40*	96 1/8	11	3 3/4	48.00
M6593	4-40	48 1/8	15 3/4	3 3/4	36.18
M6594	8-40*	96 1/8	15 3/4	3 3/4	68.40
With Top Plates					
M6590/TP	2-40	48 1/8	11	3 3/4	26.28
M6591/TP	4-40*	96 1/8	11	3 3/4	51.60
M6593/TP	4-40	48 1/8	15 3/4	3 3/4	37.98
M6594/TP	8-40*	96 1/8	15 3/4	3 3/4	72.00

*Doublets — for lamps in Tandem.

†To order units with U.L. listed (with thermal reset ballast), for low density ceilings, add suffix "/ADVG" to catalog numbers above and add \$1.50 each.

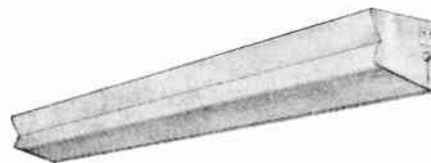
LIGHTRONICS



Extra slim (3 1/8" deep) fluorescent unit with clear prismatic wraparound lens. Uniform 4' modular appearance. Styrene or Acrylic lens. 6-stage phosphatized steel parts finished 100% certified, non-modified Thermosetting Acrylic enamel, baked on at 310°F. HPF, CBM/ETL internally fused ballasts. Listed by Underwriters' Laboratories, I.B.E.W. wired.

Cat. No.	Lamp Wattage	Fixture Length, Feet	Fixture Width, In.	Shpg. Wt. Lbs.	Each
Polystyrene					
STY6596/BF	2-40	4	10 3/4	19	\$18.78
STY6597/BF	4-40	8	10 3/4	36	36.78
STY6598/BF	4-40	4	17	28	32.70
STY6599/BF	2-40	4	17	25	27.30
Acrylic					
ACR6596/BF	2-40	4	10 3/4	19	24.66
ACR6597/BF	4-40	8	10 3/4	36	48.57
ACR6598/BF	4-40	4	17	28	39.75
ACR6599/BF	2-40	4	17	25	34.35

HOSPITAL PATIENT-LITE

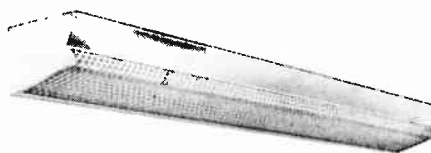


Fluorescent hospital wall bracket with linear prismatic lens. 3' and 4' lengths. Center reflector baffle is standard. Unit can be used either uplight or downlight or both. 15-amp. U-ground receptacle and single circuit pull switch furnished as standard.

Cat. No.	Lamp Wattage	Nominal Length, Feet	Height, In.	Shpg. Wt. Lbs.	Each
M6706	2-30	3	5 1/8	19	\$36.00
M6707	2-40	4	5 1/8	21	36.00
M6706/SS*	2-30	3	5 1/8	19	52.50
M6707/SS*	2-40	4	5 1/8	21	52.50

**/SS" refers to stainless steel units. For push button Night Light (C-7 bulb) add suffix "/NL" to catalog number and add \$1.08.

WALL-LUME BRACKET

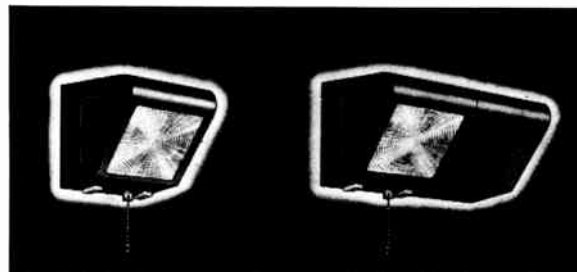


New fluorescent wall bracket with Prismoid louver-lens. Uplight and downlight illumination from the wall.

Cat. No.	Lamp Wattage	Nominal Length, Feet	Height, In.	Shpg. Wt. Lbs.	Each
M6700	1-20	2	5 1/8	11	\$17.40
M6701	2-20	2	5 1/8	12	19.20
M6702	1-40	4	5 1/8	18	24.00
M6703	2-40	4	5 1/8	19	25.08

For U-ground receptacle add suffix "/R" to catalog number and add \$1.80. For Pull Switch add suffix "/S" to catalog number and add \$.78. For Top Plates add suffix "/TP" to catalog number and add \$.72 per 24" unit, \$1.08 per 48" unit.

HOSPITAL BED-LIGHTS



GUTH "BED-LIGHTS" are compact, durably made streamlined units and meet every requirement for good bed-lighting in hospitals. Versatility offers a range of selections hitherto unavailable. Useable as 1, 2, or 3 gang units. Exceptionally easy to maintain. Prismatic Lens for Light control.

Cat. No.	No. A-19 Skts.	Shpg. Wt. Lbs.	Each
B1300	1	2	\$ 8.40
B1304	2	6	24.00
B1305	3	6	24.60

Other types available.

GUTH LIGHTING FIXTURES

GUTHLITE JR.'S

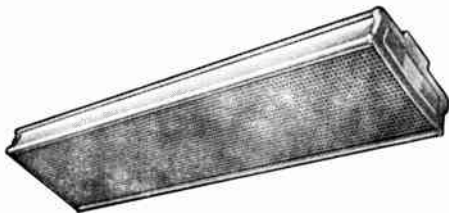


Feature 40% uplight, 60% downlight. Ideal for school and office lighting. Top enclosing plates available for 100% downlight if desired. Fixture is all-metal with light-spill sides. Louvers are hinged for easy access to lamps. Finished 310°F baked-on Thermosetting-Acrylic white overall. Wired for 120V, 60 cycle, A.C. with HPF ballast.

Cat. No.	Lamp Wattage	Length, Feet	Shpg. Wt. Lbs.	Each
All Metal Light Spill Sides — Steel Cross Baffles				
CB6405	2-40	4	32	\$26.40
CB6407	4-40	4	36	37.50
CB6409	4-40*	8	64	48.90
CB6411	8-40*	8	72	73.80
CB6421	2-75	8	64	46.20
CB6423	4-75	8	72	64.20

*Doublet models.

GUTHLITE JR.'S WITH GRATELITE LOUVER

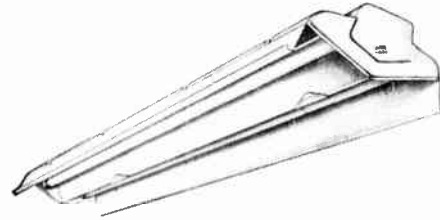


Two and four lights wide, 4' and 8' long, with the Gratelite louver 45° x 45° lamp shielding. Constructed of heavy-gauge 6-stage, zinc-phosphatized steel. Finished 310°F Thermosetting-Acrylic white enamel. Sides are of steel, designed to produce a soft light-spill that blends luminaires into ceiling brightness.

Cat. No.	Lamp Wattage	Lgth., Ft.	Width, In.	Height, In.	Each
2-Lite "G-G's"					
GE6405	2-40	4	12 ⁵ / ₈	5	\$26.40
GE6409	4-40*	8	12 ⁵ / ₈	5	48.90
GE6421	2-75	8	12 ⁵ / ₈	5	46.68
4-Lite "G-G's"					
GE6407	4-40	4	15 ³ / ₄	5	38.70
GE6411	8-40*	8	15 ³ / ₄	5	76.20
GE6423	4-75	8	15 ³ / ₄	5	66.60

40 Watt listings are rapid start series.
*Doublet models.

WYTELINER INDUSTRIALS



Units are available with either 10% or 25% uplight for industrial applications. Cross ribbed reflectors provide extra strength. Select from 3 different reflector finishes, 310°F baked-on Thermosetting-Acrylic white enamel, White Porcelain enamel or Alzak aluminum. Self retaining reflector latches simplify removal of reflectors for cleaning and maintenance. Handsome drop end plate. One-piece 4' and 8' channels fabricated of heavy gauge steel for extra strength. Some models available with Kolorkoded light windows to direct and protect employees — write for complete information.

Lamp Wattage	Lgth., In.	—310°F Thermosetting— Acrylic White Reflector		—Porcelain Reflector	
		Cat. No.	Each	Cat. No.	Each
10% Uplight					
2-40	49 ³ / ₄	M4100	\$21.78	M4120	\$24.18
3-40	49 ³ / ₄	M4101	29.10	M4121	34.14
4-40*	99 ¹ / ₂	M4103	43.50	M4123	41.70
6-40*	99 ¹ / ₂	M4104	55.92	M4124	60.72
2-75	96	M4108	37.20	M4128	41.88
3-75	96	M4109	51.48	M4129	56.76
2-60	49 ³ / ₄	M4110	40.08	M4130	42.54
3-60	49 ³ / ₄	M4111	56.58	M4131	58.74
2-105	96	M4112	46.98	M4132	51.90
3-105	96	M4113	69.96	M4133	75.42
2-110	49 ³ / ₄	M4114	45.54	M4134	48.00
2-215	96	M4115	58.98	M4135	63.60
25% Uplight					
2-40	49 ³ / ₄	M4160	25.56	M4170	28.68
4-40*	99 ¹ / ₂	M4162	50.82	M4172	57.06
2-75	96	M4165	44.22	M4175	50.28
2-60	49 ³ / ₄	M4166	40.56	M4176	43.56
2-105	96	M4167	48.18	M4177	59.04
2-110	49 ³ / ₄	M4168	45.84	M4178	48.84
2-215	96	M4169	60.60	M4179	65.70

*Doublets — Lamps in Tandem.
Listings above are for 430 M.A. units. Also available for 800 M.A. "HO" lamps and 1500 M.A. Power Groove, "VHO" and "SHO" lamps. Write for prices.

WYTELINER ACCESSORIES

Cat. No.	Description	Shpg. Wt. Lbs.	Each
Expanded Metal Guards			
M4095*	48" Long	5	\$6.90
Eggcrate Bottoms			
M4097*	48" Long for 25% Uplight Units	7	6.00
M4098*	48" Long for 10% Uplight Units	7	6.78
Hinged Optilux Plastic Bottom Panel			
M4095B*	48" Long for 10% or 25% Uplight Units	4	6.60

*Use 2 per 8' unit.

HALO LIGHTING FIXTURES

SQUARE UNITS

Flat Albalite

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H1-10	\$6.45	\$6.18	\$6.45	\$6.06	\$5.81	\$6.06
H2-20	8.51	8.24	8.51	8.00	7.75	8.00
H3-30	14.62	14.35	---	13.74	13.49	---

Drop Opal

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H1-11	\$8.45	\$8.18	\$8.45	\$7.94	\$7.69	\$7.94
H2-21	10.70	10.44	10.70	10.06	9.81	10.06
H3-31	17.28	17.01	---	16.24	15.99	---

Fresnel

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H1-13	\$8.45	\$8.18	\$8.45	\$7.94	\$7.69	\$7.94
H2-23	10.70	10.44	10.70	10.06	9.81	10.06
H3-33	17.28	17.01	---	16.24	15.99	---

Allglas

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H1-15	\$11.24	\$	\$	\$10.56	\$	\$
H2-25	15.03	---	---	14.13	---	---

RECTANGULAR UNITS

Flat Albalite



Cat. No.	Type Lamp	Size, Inches		Watts
		6 1/4 x 24 1/2	6 1/4 x 10 1/4	
H6-60	Incandescent	6 1/4 x 24 1/2		3-60
H4-40	Incandescent	6 1/4 x 10 1/4		100
H126-60	Fluorescent	6 1/4 x 24 1/2		2-20

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H6-60	\$15.63	\$15.36	\$	\$14.69	\$14.44	\$
H4-40	6.98	6.72	6.98	6.57	6.32	6.57
H126-60	17.03	16.76	---	16.00	15.75	---

RECTANGULAR UNITS

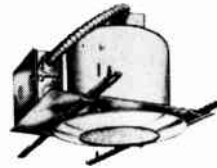
Drop Opal



Cat. No.	Type Lamp	Size, Inches		Watts
		6 1/4 x 24 1/2	6 1/4 x 10 1/4	
H6-61	Incandescent	6 1/4 x 24 1/2		3-60
H4-41	Incandescent	6 1/4 x 10 1/4		100
H126-61	Fluorescent	6 1/4 x 24 1/2		2-20

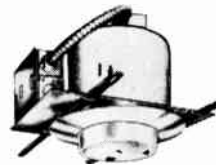
Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H6-61	\$18.95	\$18.68	\$	\$17.81	\$17.56	\$
H4-41	9.84	9.58	9.84	9.25	9.00	9.25
H126-61	20.35	20.08	---	19.12	18.87	---

ROUND UNITS



Cat. No.	O.D., In.	Depth, In.	Watts		
			Each	Eastern	Plated
H7-70	6 1/4	8	100		
H8-80	10	10	150		

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H7-70	\$7.38	\$7.25	\$7.85	\$6.94	\$6.82	\$7.38
H8-80	13.46	13.19	---	12.65	12.40	---



Cat. No.	O.D., In.	Depth, In.	Watts		
			Each	Eastern	Plated
H7-71	6 1/4	8	100		
H8-81	10	10	150		

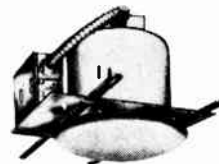
Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H7-71	\$7.71	\$7.58	\$8.18	\$7.25	\$7.13	\$7.69
H8-81	15.65	15.39	---	14.71	14.46	---

Louvered and Open



Cat. No.	O.D., In.	Depth, In.	Watts		
			Louvered	Open	
H7-302	6 1/4	8	75		
H7-402	6 1/4	8	150		
H7-301	6 1/4	8	75		
H7-401	6 1/4	8	150		

Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H7-302	\$7.51	\$7.38	\$7.51	\$7.07	\$6.94	\$7.07
H7-402	7.51	7.38	7.51	7.07	6.94	7.07
H7-301	6.38	6.25	6.38	6.00	5.88	6.00
H7-401	6.38	6.25	6.38	6.00	5.88	6.00



Cat. No.	O.D., In.	Depth, In.	Watts		
			Each	Eastern	Plated
H7-75	6 1/4	8	100		
H8-85	10	10	150		

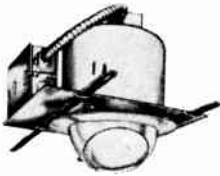
Cat. No.	Each—Eastern— Plated Painted Alum.			Each—Western*— Plated Painted Alum.		
	Each	Eastern	Plated	Each	Western*	Plated
H7-75	\$10.04	\$	\$	\$9.44	\$	\$
H8-85	16.09	---	---	15.13	---	---

*Western Zone: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, S. America, Utah, Washington, Wyoming, El Paso, Texas.

*Western Zone: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, S. America, Utah, Washington, Wyoming, El Paso, Texas.

HALO LIGHTING FIXTURES

ROUND UNITS



Cat. No.	Eyeballs		Watts
	O.D., In.	Depth, In.	
H7-77	6 1/4	8	30W-R20
H7-78	6 1/4	8	75W-R30
H7-408*	6 1/4	8	75W-R30
H8-88*	10	10	150W-R40

*Louvered unit.

Cat. No.	Each—Eastern—			Each—Western*		
	Plated	Painted	Alum.	Plated	Painted	Alum.
H7-77	\$10.24	\$10.11	\$	\$9.63	\$9.50	\$
H7-78	11.30	11.17	---	10.63	10.50	---
H7-408	12.30	12.17	---	11.57	11.44	---
H8-88	18.15	17.82	---	17.06	16.75	---

Wall-Wash Light



Cat. No.	O.D., In.	Depth, In.	Watts	Each	
				Eastern Painted	Western* Painted
H4160	8 1/4	9 1/16	150	\$18.82	\$17.69



Heat-Light

Cat. No.	O.D., In.	Depth, In.	Watts

Cat. No.	Each—Eastern—		Each—Western*	
	Plated	Alum.	Plated	Alum.
H37-401	\$5.58	\$5.58	\$5.25	\$5.25



PENDANT SPHERES

Cat. No.	Dia., In.	Watts	Each	
			Eastern Painted	Western* Painted
H2512	12	100	\$11.97	\$11.25
H2514	14	150	15.96	15.00
H2516	16	200	18.62	17.50
H2518	18	300	27.93	26.25

SPHERE BRACKETS



Cat. No.	Type	Dia., In.	Watts	Each	
				East. Alum.	West.* Alum.
H2400	Ceiling	6	150	\$4.38	\$4.11
H2401	Wall	6	150	5.65	5.31

CYLINDER BRACKETS



Cat. No.	Type	Size, Inches	Watts	Each	
				East. Alum.	West.* Alum.
H2410	Ceiling	3 1/4 x 7 1/8	100	\$3.48	\$3.28
H2411	Wall	4 1/2 x 6 5/8	100	5.07	4.76

*Western Zone: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, S. America, Utah, Washington, Wyoming, El Paso, Texas.

EDGE-GLOW EXIT LIGHTS

End, Top or Back Mounting



Aluminum box with two sockets for 25W. T10 lamps. Acrylic panel with 6" red or green letters. Satin anodized aluminum finish.

Cat. No.	Arrow	No. Faces	Each	
			Eastern Alum.	Western* Alum.
H2620	None	1	\$20.15	\$18.94
H2620AR	Left	1	21.48	20.19
H2620AL	Right	1	21.48	20.19
H2620-2	None	2	25.47	23.94
H2620-2A	Two	2	28.13	26.44

Note: For Green letters, add "G" as suffix to catalog number.

STANDARD AND THIN-LINE EXIT LIGHTS



Housing and frame of .070 extruded aluminum. Hinged die formed aluminum canopy. Letters are 6" fired ceramic on glass or plastic-backed stencil. Satin anodized aluminum finish. All units equipped with universal arrows . . . just remove covers.

THIN LINE (1 5/8" Thick)

Cat. No. Glass	Cat. No. Stencil	No. Faces	Each	
			Eastern	Western*
Back Mounting				
H2630	H2640	1	\$12.64	\$11.88
End or Top Mounting				
H2631	H2641	1	13.63	12.81
H2631-2	H2641-2	2	17.29	16.25
Pendant Mounting				
H2632	H2642	1	15.63	14.69
H2632-2	H2642-2	2	19.29	18.13

STANDARD (3 1/8" Thick)

Cat. No.	Cat. No.	No. Faces	Each	
			Eastern	Western*
Back Mounting				
H2650	H2660	1	9.98	9.38
End or Top Mounting				
H2651	H2661	1	10.97	10.31
H2651-2	H2661-2	2	14.63	13.75
Pendant Mounting				
H2652	H2662	1	12.97	12.19
H2652-2	H2662-2	2	16.63	15.63
Recessed				
H2655	H2655	1	9.31	8.75

All units supplied with Red letters unless otherwise specified. Add proper suffix to catalog number:
 For Green on White, specify "G".
 For White on Green, specify "WG".
 For White on Red, specify "WR".
 *Western Zone: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, S. America, Utah, Washington, Wyoming, El Paso, Texas.

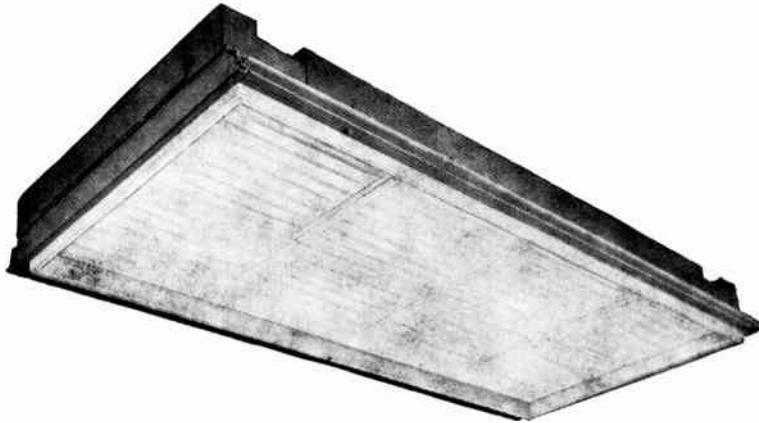
All Halo Prewired Units Supplied With Bar Hangers

All Frames Equipped With Concealed Springs and "Lite-Tite" Gaskets

HOLOPHANE RECESSED FLUORESCENT LUMINAIRES

HOLOFLUX® RECESSED 6400 SERIES

(Underwriters Approved)



No. 6400 Series—Prism Border Type

The Holophane No. 6400 Series provides recessed HOLOFLUX® units with two lens patterns and is available in two installation constructions. Both types are designed for 2, 3 or 4-F40T12/RS fluorescent lamps.

The two basic CONTROLENS® types are:

1. Prism border (Nos. 6400, 6410.)
2. Flat (Nos. 6440, 6450.)

The two construction types are:

1. For plastic ceilings.
2. For grid type ceilings.

Lighting Performance

High efficiency; Useful output over 60%.
Glare free; Visual comfort over 90%.
Ceiling illuminated; Luminous Prism Border Lens.
Wide range of lighting levels: Choice of 2, 3 or 4 lamp units.

Appearance

Prism Border Lens; Highly attractive, low brightness.

Smooth Crystal PRISMALUME® Controlens; Injection molded acrylic.

Mechanical Construction

Sturdy fixture housing; Die formed, light weight.
Extruded aluminum door rails and trim; Assures perfect alignment.

Positive door closure; Quick acting spring latches.
Shallow recessing depth; 4¾" to top of framing members.

Cool ballast operation; Ballasts mounted at far corners.

Simple installation; Parts designed for speedy assembly.

HOLOFLUX WITH LUMINOUS PRISM-BORDER CONTROLENS

Cat. No.	No. of F40T12/RS Lamps Per 4' Section	Recessed Fixture Mounting	Each
6402-4	2		\$72.88
6402-4			
Add. Sect.	2		70.11
6403-4	3	Suspended From Cross Supports	81.77
6403-4			
Add. Sect.	3		79.00
6404-4	4		81.77
6404-4			
Add. Sect.	4		79.00
0388	Plaster Frame for all "suspended" type units		6.01
0388			
Add. Sect.	Plaster Frame for all "suspended" type additional section units.....		4.50
6412-4	2	Supported	65.55
6413-4	3	By Ceiling	74.38
6414-4	4	Grids	74.38

HOLOFLUX WITH FLAT CONTROLENS

Cat. No.	No. of F40T12/RS Lamps Per 4' Section	Recessed Fixture Mounting	Each
6442-4	2		\$67.28
6442-4			
Add. Sect.	2		64.51
6443-4	3	Suspended From Cross Supports	76.18
6443-4			
Add. Sect.	3		73.41
6444-4	4		76.18
6444-4			
Add. Sect.	4		73.41
0388	Plaster Frame for all "suspended" type units		6.01
0388			
Add. Sect.	Plaster Frame for all "suspended" type additional section units.....		4.50
6452-4	2	Supported	59.94
6453-4	3	By Ceiling	68.79
6454-4	4	Grids	68.79

For suspended type units cross-supports and brackets are furnished as part of the catalog number.

All plaster frames are furnished on separate order.

All HOLOFLUX units are wired. Standard voltage rating is 110v. to 125v. Specify when other voltages are required.

HOLOPHANE SURFACE MOUNTED FLUORESCENT LUMINAIRES

"62" SERIES — FOUR FOOT SQUARE



The "62 Line" offers a 4' x 4' surfaced attached complete Holoflux luminaire arranged for use with 4, 6 or 8 F40T12/RS fluorescent lamps. Outstanding light control and attractive appearance result from Prismalume lenses, prismatic T-bar and luminous side panels with satin-chrome corner supports. Ideal for large interiors such as: banks, auditoriums, department stores, libraries, lobbies, offices, churches, terminals, etc.

Here is a light weight unit providing simple surface attachment, giving the effect of recessed large area panels. Special refinements in design offer added features such as:

The panelled sides of the unit do not go up to the ceiling line, but are dropped down to provide more light on the ceiling. The use of an acrylic prismatic T-bar as a cross support for the four acrylic Controlens makes the entire area a luminous light controlling surface. Relamping is simple; light-weight acrylic lenses are lifted and slid over one another giving access to lamps or interior.

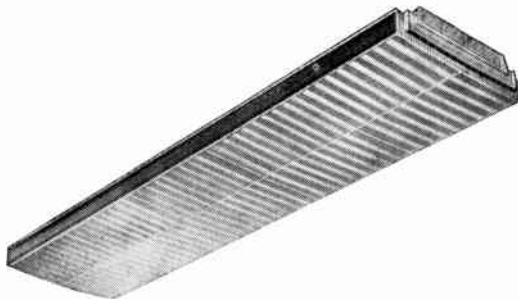
Highly efficient (approximately 60% in 0°-60° zone), the "62 line" also is the lightest-weight fixture of this size available.

—Concave Lens—		—Flat Lens—		Lamp Wattage	—Dimens., In.—	
Cat. No.	Each	Cat. No.	Each		L.-W.	D.
6224	\$161.65	6254	\$152.18	4-40	50 7/8	5 7/8
6226	170.66	6256	161.19	6-40	50 7/8	5 7/8
6228	179.67	6258	170.18	8-40	50 7/8	5 7/8

Flat lenses are acrylic plastic in 2' x 4' modules.

All units are wired and can be connected for switching two lamps at a time to obtain various levels of illumination. Standard voltage 110-125 volts. Specify when other voltages are required.

7100 SERIES HOLOFLUX® III



High efficiency utilization coefficients over 70% mean higher footcandle levels with fewer luminaires. Complete visual comfort—over 15,000 individual cone prisms in each PRISMALUME® CONTROLENS® eliminate glare from every viewing angle. Has unique lamp concealment—special prismatic construction eliminates reflected lamp images and provides best "hiding power" to conceal light sources, without sacrifice of efficiency. Uniform illumination even on wide spacings.

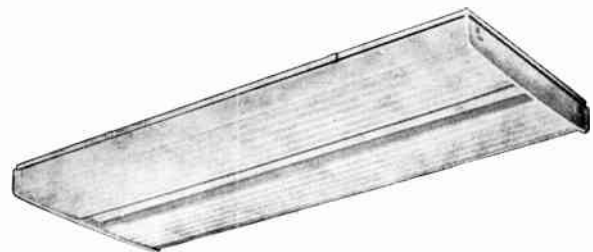
Ultra-thin contour—slim, modern, clean lines. Injection-molded acrylic, single piece, four-foot, frameless lens provides totally invisible latching and hinging. A well-balanced combination of linear and cone prisms looks attractive whether lighted or cold.

Continuous luminous runs and ends. No readily apparent mullions between adjacent sections of continuous runs.

Cat. No.	Lamp Wattage	—Dimens., In.—			Each
		L.	W.	D.	
7100-4	2-40	48 5/8	8 5/8	4 3/4	\$28.82
7100-8	4-40	97 1/4	8 5/8	4 3/4	56.13

NOTE: Catalog designations end in a number which give the nominal length in complete feet. Continuous runs can be made up of the appropriate number of 4' and 8' sections. Ballasts are internally fused, grounding lugs are provided and units are prewired. Single stem hanger available on separate order. Specify type and stem length required.

6000 SERIES — DECOLITE®



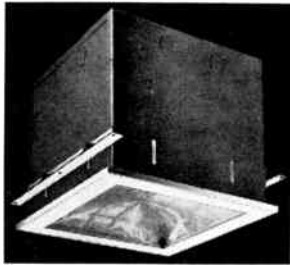
The Decolite®, No. 6000 Series, surface-mounting fluorescent luminaire, features high lighting efficiency, striking appearance and mechanical excellence. The basic 4-foot unit is composed of 2 acrylic PRISMALUME® Controlens, each accommodating 2 fluorescent lamps—four lamps in the complete fixture. The lenses hinge along the central metal ballast chamber cover, and so provide easy access for servicing. A minimum of metal is visible, emphasizing the even luminosity of the PRISMALUME lenses. Luminaire provides an intensive light distribution. Light from the sides of the lenses illuminates the ceiling, relieving contrast. Additional sections available and easily attached for continuous runs.

Cat. No.	Lamps	— Dimens., In. —			Each
		L.	W.	D.	
6004-4	4-40W RS	48 1/2	20 1/8	3 1/8	\$69.30
6004-4	Add. Sect.	48	20 1/8	3 1/8	66.71

Listed by UL for direct installation on low density fibre tile ceilings.

HOLOPHANE IN-BILT RECESSED INCANDESCENT LUMINAIRE

PAL — POSITIVE AUTOMATIC LATCHING



The Nos. F-1564 — F-1567 series of recessed Controlens units feature a mechanical innovation —PAL—(Positive Automatic Latching). This feature makes relamping easy. The door is opened

simply by pushing against the Controlens which releases the latching mechanism, allowing the door to swing open, slowly and smoothly. The lamp can be serviced from the floor with a standard lamp changer pole. No springs are involved, the entire operation is accomplished by positive pressure against an activating lever and a clasp that automatically closes the Controlens door.

Optically, the PAL series offers two types of Controlens: one, a concave design (F-1564 series) the other, a flat lens (F-1567 series) to meet the users preference. An intensive light distribution results from either type of Controlens. Sized to fit standard 12" ceiling openings, housing is furnished complete with widely adjustable mounting straps.

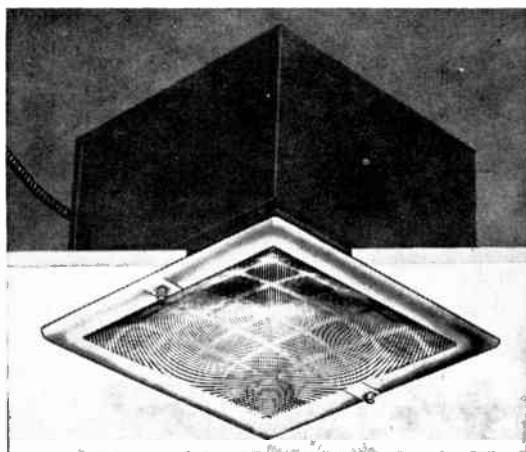
Concave Lens		Flat Lens		Lamp Wattage
Cat. No.	Each	Cat. No.	Each	
F-1564	\$ 27.26	F-1567	\$ 26.51	150
F-1564-2*	64.56	F-1567-2*	63.06	2-150
F-1564-4S**	123.88	F-1567-4S**	120.88	4-150
F-1565	28.36	F-1568	27.60	200
F-1565-2*	66.76	F-1568-2*	65.26	2-200
F-1565-4S**	128.27	F-1568-4S**	125.27	4-200
F-1566	31.30	F-1569	30.56	300
F-1566-2*	72.65	F-1569-2*	71.15	2-300
F-1566-4S**	140.05	F-1569-4S**	137.05	4-300
0397	Plaster Frame.....			
0399	Plaster Frame.....			

Dimension, Inches			
L	Roughing Box		Face Plate
	W	D	
11 3/8	Sq.	9 1/4	13 Sq.
.....	.....	9 1/4	26 x 13
.....	.....	9 1/4	26 x 26
11 3/8	Sq.	10 1/8	13 Sq.
.....	.....	10 1/8	26 x 13
.....	.....	10 1/8	26 x 26
11 3/8	Sq.	11 1/8	13 Sq.
.....	.....	11 1/8	26 x 13
.....	.....	11 1/8	26 x 26
			each \$10.05
			each 14.85

* These multiple units are composed of 2 separate single units (Nos. F-1564, 5, 6 or Nos. F-1567, 8, 9) that fit 2-in-line in plaster frame No. 0397.
 ** These multiple units are composed of 4 separate single units (Nos. F-1564, 5, 6 or Nos. F-1567, 8, 9) that fit in square plaster frame No. 0399.

HOLOPHANE COMMERCIAL LIGHTING UNITS

RECESSED — CONCAVE LENS



No. F-1570 Series

answer for low ceiling construction. Unit employs prismatic reflector working in conjunction with concave lens. Recommended for "general lighting" where uniform illumination of the working area is required. A great variety of luminaires is available: 9 3/4" lens for 150 watt (F-1559 units); 13 3/8" lens for 300 watt (F-1570 units); F-1570 singly or in multiple construction; a lift-off top construction (F-1570-TS) to permit above-ceiling servivings. A prewired integral outlet box 150 watt unit (FB-1560) is also available.

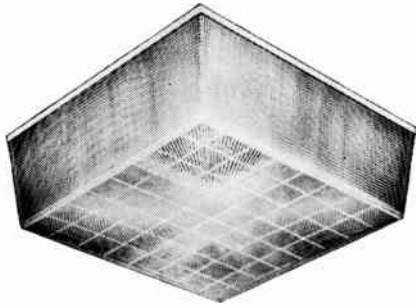
Cat. No.	Lamp Wattage	Dimensions, Inches				Each
		Roughing Box Sq.	Face Plate Dpth. Sq.	Face Plate Sq.	Framed Open. Sq.	
F-1559	200	10 1/8	8 5/8	11 3/4	10 1/2 †	\$25.01
FB-1560	150	10 1/8	8 1/4	11 3/4	10 1/2 †	21.87
F-1570	300*	13 1/8	10	15 3/8	14 1/8 **	31.71
F-1570-TS	300*	14 3/8	10 1/8	15 3/8	14 5/8 †	40.14

The F-1570 series, with its low brightness and outstanding efficiency, is the most modern of all incandescent In-Bilt lighting systems. It is the

All Plaster Flanges supplied on separate order. Units are supplied unwired. †For 100-watt A-21 lamp use, (SO-88) 3/4" socket extension. *Medium base—6" light center clear lamp recommended. **Existing ceiling requires 14 1/2" sq. opening for No. 0264 Plaster Flange. †Existing ceiling requires 15" sq. opening for No. 0321 Plaster Flange. ‡Existing ceiling requires 10 3/4" sq. opening for No. 0263 Plaster Flange.

**HOLOPHANE SURFACE MOUNTED
FLUORESCENT LUMINAIRES**

PRISMATIC INCANDESCENT CEILING LUMINAIRE



Holophane CUBIC® is an incandescent acrylic plastic one-piece unit available in two sizes. Provides efficient, glare-free lighting; ease in handling and cleaning. Lamp enclosure accommodates two 100 watt lamps in No. C-868 and two 60 watt lamps in No. C-866. Hinges and latches easily; mounts directly on 3 1/4" and 4" outlet boxes. Suitable for restaurants, dormitories, classrooms, corridors, lobbies, stairways, washrooms, etc.

Cat. No.	Lamp Wattage (A-19)	— Dimens., Inches —			Each
		L.	W.	D.	
C-868	2-100	12 1/8	12 1/8	6	\$14.27
C-866	2-60	10 1/8	10 1/8	4 1/8	13.23
0117	Surface Wiring Adapter.....				5.66

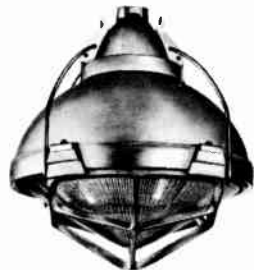
**HOLOPHANE INDUSTRIAL
LIGHTING UNITS
INDUSTRIAL VAPOR TIGHT LUMINAIRES**



No. 02420



No. 02454, 02456



No. 02444

Dust and vapor tight units for several wattages (100, 150 and 200 watts) and light distribution. Nos. 02454, 02456 and 02420 have compression-tension holding method without threaded neck. No. 02420 has aluminum cover, can be used indoors or outdoors; No. 02423 omits cover, provides upward light. Units easily relamped and serviced. Other listings consist of threaded

metal fitters and prismatic light controlling elements.

Cat. No.	Lamp Wattage	Dimens., Inches	Depth	Each
Intensive Distribution				
02420	200-300†	14 1/8	14	\$35.81
02423	200-300†	14 1/8	14	35.81
Extensive Distribution				
02328-V	100*-150	8 3/8	11 3/8	12.71
02444	200	11 1/8	12 1/4	26.57
02454	150	11 1/8	11 3/8	20.04
02456	200†	11 1/8	11 3/8	20.04
02470	100*-150	9 3/8	11 1/4	14.27

*Use 5/8" socket extension. †6" light center medium base lamp. †A-25-IF.

**HOLOPHANE INDUSTRIAL
LIGHTING UNITS**

**HIBAY® HEAVY DUTY UNITS FOR
HIGH MOUNTING**



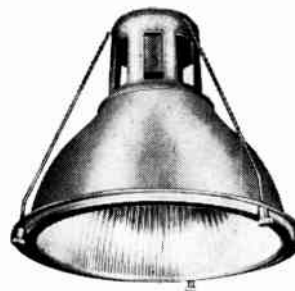
Typical Hibay Reflector

Foundries, turbine rooms, airplane hangars, armories or steel mills and similar areas require special high mounting (over 30') lighting that can meet the severe operating conditions of heavy industry. Thermally stable prismatic HIBAY® reflector units, highly efficient and unequalled for their permanent reflecting qualities, are available for use with incandescent and mercury lamps. Based on the spacing, concentrating, medium or widespread light distributions are selected. Mechanical features include: rugged tripod reflector holder, ventilated socket design and metal drip cover.

Cat. No.	Lamp Wattage	Max. Spacing Ratio	Dimens., In. (over rods)		Each
Extensive Distribution					
692	1500	2.0	19 3/4	26 1/2	\$38.41
Intensive Distribution					
691	1500	1.0	19 3/4	26	38.41
Concentrating Distribution					
690	1500	0.6	21 3/4	28	38.41
695	400*	0.75	21 3/4	25 1/4	38.41
698	Merc.	1.0	21 3/4	27	39.15
	1000*				

*Color corrected or clear lamp.

LOW BAY LIGHTING



682 Series



A group of highly efficient prismatic reflector units for mounting up to 20'. This series of luminaires provides flexibility of application for areas such as general industrial lighting, lighting of machines and materials, or gymnasiums.

LOBAY® reflectors should be selected according to the spacing arrangements and the light distribution required. All are tapped for 1/2" conduit.

Cat. No.	Lamp Wattage	Max. Spacing Ratio	Dimens., Inches (over rods)		Each
Extensive Distribution					
682	300†-500	2.0	13 1/8	12 3/8	\$11.67
682-AL					13.69
Intensive Distribution					
684	200-300**	1.5	11 3/8	11 1/2	9.70
684-AL					11.55
685	300†-500	1.5	13 1/8	12 3/8	11.67
685-AL					13.69
Concentrating Distribution					
686	300†-500	0.75	13 1/8	12 3/8	11.67
686-AL					13.69

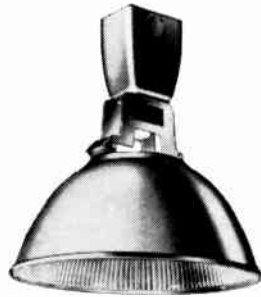
Suffix "AL" denotes aluminum covered reflectors. **300 W., 6" light center, medium base lamp. †Mogul base lamp.

HOLOPHANE INDUSTRIAL LIGHTING UNITS

MERCURY LUMINAIRE
With Integral Ballast



No. 625



No. 630

Holophane PRISMPACK® combines efficient prismatic glass reflectors with specially designed ballasts to form an integral unit. Balanced appearance of reflector and ballast capsule presents an attractive luminaire for use in all areas where styling counts.

Choice of 5 Controlled Distributions — Prismatic controlled light distributions allow precise engineering solutions for specific applications.

Wide Spread Uplight — Ballast capsule specifically designed to permit spreading of 12% of lamp output across ceiling, to relieve contrast.

Completely Prewired — Socket and ballast are factory connected. Only two luminaire wires need to be spliced to line wires in wiring chamber provided.

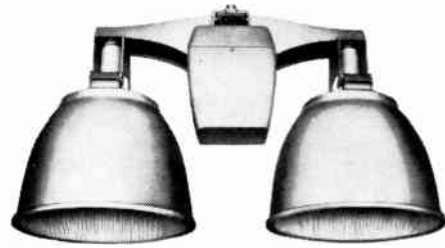
Drip Cover Protection — PRISMPACK® luminaires are available with a permanently mounted drip cover where protection against moisture (condensation, leakage, etc.) is desirable.

Steady Light Output — Useful light output of lamp is held constant within 4½% for line voltage fluctuations of as much as 10%.

One 400 Watt Mercury Lamp

Cat. No.	Light Distri.	Luminaire Provides	—Dimens., In.— Diam. Depth	Each
525-120*	Wide	Uplite	15½ 28	\$64.56
526-120*	Wide	Cover	15½ 28	68.49
575-120*	Broad	Uplite	15½ 28	64.56
576-120*	Broad	Cover	15½ 28	68.49
625-120*	Medium	Uplite	15½ 28	64.56
626-120*	Medium	Cover	15½ 28	68.49
630-120*	Narrow	Uplite	21¾ 27¾	68.95
631-120*	Narrow	Cover	21¾ 27¾	72.87
650-120*	Intensive	Uplite	21¾ 27¾	68.95
651-120*	Intensive	Cover	21¾ 27¾	72.87
0300	Wire Guard for Nos. 525, 526, 575, 576, 625, 626			4.34
0379	Wire Guard for Nos. 630, 631, 650, 651			5.20
0418	Power-Hook			18.77

TWIN-MERCURY LUMINAIRE
With Integral Ballast



“Out of the carton — on to the ceiling” mounting ease of the prewired PRISMPACK® concept has been incorporated into a twin reflector unit. Durable cast yoke supports ballast capsule and twin reflectors. Economical two-lamp ballast in twin mercury units; single lamp ballast in combination mercury-incandescent units. Light controlling features as given for PRISMPACK®.

Single catalog number represents luminaire complete with two reflectors and ballast. (last three digits indicate primary voltage).

Two 400 Watt Mercury Lamps

Cat. No.	Light Distri.	Luminaire Provides	—Dimens., In.— Lgth. Diam. Depth	Each
2575-120*	Broad	Uplite	37½ 15½ 20¼	122.78
2576-120*	Broad	Cover	37½ 15½ 20¼	131.21
2625-120*	Medium	Uplite	37½ 15½ 20¼	122.78
2626-120*	Medium	Cover	37½ 15½ 20¼	131.21
2650-120*	Intensive	Uplite	43¾ 21¾ 20¾	131.55
2651-120*	Intensive	Cover	43¾ 21¾ 20¾	139.99
2630-120*	Narrow	Uplite	43¾ 21¾ 20¾	131.55
2631-120*	Narrow	Cover	43¾ 21¾ 20¾	139.99

MERCURY AND STANDBY INCANDESCENT COMBINATION TWIN PRISMPACK®
One 400 Watt Mercury and One 500 Watt Incandescent

2565-120†	Broad	Uplite	37½ 15½ 20¼	103.98
2566-120†	Broad	Cover	37½ 15½ 20¼	121.68
2615-120†	Medium	Uplite	37½ 15½ 20¼	103.98
2616-120†	Medium	Cover	37½ 15½ 20¼	121.68
2640-120†	Intensive	Uplite	43¾ 21¾ 20¾	122.03
2641-120†	Intensive	Cover	43¾ 21¾ 20¾	130.46
2620-120†	Narrow	Uplite	43¾ 21¾ 20¾	122.03
2621-120†	Narrow	Cover	43¾ 21¾ 20¾	130.46

Wire Guards (2 required)

0300	For Nos. 2565, 2566, 2575, 2576, 2615, 2616, 2625, 2626	4.34
0379	For Nos. 2640, 2641, 2650, 2651, 2620, 2621, 2630, 2631	5.20

Louver Guards (2 required)

0412	For Nos. 2565, 2566, 2575, 2576, 2615, 2616, 2625, 2626	14.96
0413	For Nos. 2640, 2641, 2650, 2651, 2620, 2621, 2630, 2631	15.54
0418	Power-Hook	18.77

*Other primary voltages available. Specify 208, 240, 277 or 480 volts as part of catalog number; i.e. 625-277 volts, etc. Note 240 volt is a tap on 277 volt primary.

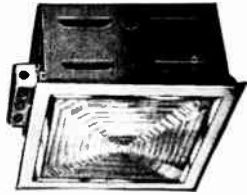
†When starting at ambient temperatures of -20°F is required, add the suffix “-20” to catalog number.

*Other primary voltages available. Specify 208, 240, 277 or 480 volts as part of the catalog number; i.e., 2625-208 volts, etc.

†Also available for 240 volt primary.

When starting at ambient temperatures of -20°F is required, add the suffix “-20°F” to the catalog number.

KIRLIN INCANDESCENT RECESSED LIGHTING FIXTURES



No. 1208

Readily installed in all ceilings. Wide spread — concentrating — diffusing, flat, dished and shock resisting lenses. Large selection of flat glasses, flat and dished opal diffusers. Full size, specular — GlasSurfaced reflectors.

Shallow recessed housings. Top relamping types. 14 ga. outlet box. 1/2"-3/4" KO's. (NEC No. 370-20B). Aluminum recessed housing for concrete. Removable, No. 304 Stainless Steel concealed hinged doors.

Door fasteners of single screw, fast latch, and pull-latch types. Die cast aluminum frames. Weather resisting models.

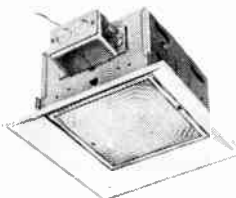
Standard, low cost lamps. Adjustable sockets.

All aluminum surface fixtures.



No. 614-B

Max. Rated Watts	Cat. No.	Dimens., In.			Circuit Wire	Each
		Ceiling Opening	Depth	Frame		
Square Recessed						
100	1207	7 3/4 sq.	5 1/8	8 5/8 sq.	60°	\$9.88
150	1207Y	7 3/4 sq.	5 1/8	8 5/8 sq.	75°	9.88
150	1208	9 3/8 sq.	5 1/2	10 1/4 sq.	60°	10.98
150	1508W	9 3/8 sq.	3 7/8	10 1/4 sq.	75°	15.32
200	1208Y	9 3/8 sq.	5 1/2	10 1/4 sq.	75°	10.98
200	1211	11 7/8 sq.	5 5/8	12 7/8 sq.	60°	14.84
200	1511	11 7/8 sq.	4 1/4	12 7/8 sq.	60°	14.80
200	1611V	11 7/8 sq.	9 3/8	12 7/8 sq.	60°	21.97
200	1611VU	11 7/8 sq.	9 3/8	12 7/8 sq.	125°	21.42
300	1211Y	11 7/8 sq.	5 5/8	12 7/8 sq.	75°	14.84
300	1212	13 1/4 sq.	7 5/8	14 1/8 sq.	60°	17.33
300	1611VY	11 7/8 sq.	9 3/8	12 7/8 sq.	75°	21.97
300	1611VYU	11 7/8 sq.	9 3/8	12 7/8 sq.	125°	21.42
500	1218	19 3/8 sq.	13 1/8	20 1/2 sq.	60°	54.19
400-Hg.	1218Hg.	19 3/8 sq.	15 1/8	20 1/2 sq.	60°	61.61
750	1218-750	19 3/8 sq.	13 1/8	20 1/2 sq.	90°	59.61
1000	1218-1000*	19 3/8 sq.	13 1/8	20 1/2 sq.	90°	59.61



No. 1808

Square Flare						
150	1808	12 sq.	6 3/4	12 5/8 sq.	60°	13.19
200	1808Y	12 sq.	6 3/4	12 5/8 sq.	75°	13.19
300	1808YY	12 sq.	6 3/4	12 5/8 sq.	90°	15.94

(White standard — also available in Anodized Gold, Silver or Copper-Bronze).



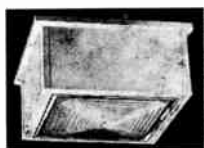
No. 1211-C

Rectangular Recessed							
2/40	514-A	4 1/2 x 14 1/2	4 1/8	5 3/4 x 15 3/4	75°	12.85	
100	508	5 5/8 x 8 1/2	5 7/8	6 1/2 x 9 7/8	60°	9.69	
100	508-A	2 way	5 5/8 x 8 1/2	4	6 1/2 x 9 7/8	60°	12.90
150	614	7 5/8 x 13 1/8	5 3/4	8 1/2 x 14 1/8	60°	14.64	
200	614-Y	7 5/8 x 13 1/8	5 3/4	8 1/2 x 14 1/8	75°	14.64	
50	508-NL	5 5/8 x 8 1/2	3	6 1/2 x 9 7/8	60°	8.20	



No. 1212-D

Square Surface Mounted						
		Fixt. Body	Depth	Top Flange		
200	† 1208-SUR	10 1/4 sq.	4 3/4	11 1/8 sq.	60°	17.49
300	† 1211-SUR	12 7/8 sq.	5 1/2	13 3/4 sq.	60°	22.66
400	Hg. (less ballast)					
	1218-SUR-Hg.	20 1/2 sq.	9 1/8	21 5/8 sq.	75°	73.99
2/300	1218-SUR	20 1/2 sq.	9 1/8	21 5/8 sq.	75°	69.86



No. 1208SUR

*For fire-resistant construction.
†All Aluminum.

Suffixes Added to Cat. Nos. For Special Features:

- A—Flat Anopal glass.
- B—Dished Opal bowl, 1 1/4" deep, in 614, 1207, 1208, 1211, 1212, 1511, 1611-V.
- C—Flat Kirlin lens, concentrating, in 1208, 1211, 1212, 1511, 1611-V series.
- CHROME — Polished frame, Satin available.
- CO—Convenient outlet on 508-NL.
- D—Dished Kirlin lens semi-concentrating, in 1208, 1211, 1212, 1511, 1611-V.
- DC—Dished Corning, ceramic coated, in 1211, 1511, 1611-V series.
- DC-SR-SYM—Dished, symmetric, shock-resisting Corning lens, in 1211, 1511, 1611-V series.
- DC-SR-ASY—Dished, asymmetric, shock-resisting Corning lens, in 1211, 1511, 1611-V series.
- EX—Extra socket, nite-lite circuit.
- EXT—Extension flange for use with "SUR" fixtures installed on exposed conduit or Wiremold.
- G—Clear glass behind louvers in 508-NL. Anopal panels in bottom of 3506 and for down-lite in 4507 exits.
- Hg—For use of 400 watt mercury lamp in 1218 series.
- L—Egg-crate, alum. louver, 45°-45°, white finish.
- P—Pull-Latch door on 1218.
- R—Removable top. For servicing from above on 1208, 1211, 1212, 1218, 1611-V.
- SR—Shock-resisting lenses on 1208, 1211, 1212, 1218, 1511, 1611-V series.
- SUR—Surface type 1208-SUR, 1211SUR, 1218SUR.
- T—Fast-latch door 1211, 1511, 1611-V series.
- TP—Tamper-proof key type stainless steel door screws.
- U—Unwired (no outlet box).
- UM—Troffer mtg. bracket for metal construction.
- UW—Troffer mtg. bracket for wood construction.
- V—Vertical lamp, 1611-V.
- W — Weather-resisting, alum. box, special protective finish, for outdoor use and in concrete.
- WG — Weather - resisting, (galv.) box on 1218; galv. frame on 1218, 514, 1218SUR, 4507.

KEYSTONE FLUORESCENT FIXTURES

"NEUTRON" SERIES



New, expanded line of prismatic wrap-arounds with completely enclosed shielding of patterned prismatic bottom and linear sides. Features "Shift-Lok" design for continuous row mounting without tools or chase nipples plus new 20 watt units in both 11" wide 2-lite and 17" wide 4-lite.

Cat. No.	Description	Sq. Ft. Per Fix. 100 fc	Each
NE220	2-20W T.S. LPF-UL	15	\$15.35
NE240	2-40W R.S. HPF-CBM	29	17.30
NE240-8*	4-40 R.S. HPF-CBM	58	34.60
NE296-L	2-75W SL-96" HPF-UL	58	31.10
NE420	4-20W T.S. LPF-UL	28	25.00
NE440	4-40W R.S. HPF-CBM	58	28.70
NE496-L	4-75W SL-96" HPF-UL	112	56.45

*Tandem.

"UNITRON" SERIES



New, all-purpose completely enclosed unit for corridors, libraries, halls, etc. Shielding has linear prisms on sides, patterned prismatic bottom; hinges along entire length from either side. 7½" wide.

Cat. No.	Description	Sq. Ft. Per Fix. 100 fc	Each
UN140	1-40W R.S. LPF-UL	17	\$18.30
U140-8*	2-40W R.S. LPF-UL	34	33.55
UN240	2-40W R.S. HPF-ETL-CBM	20	17.45
UN240-8*	4-40W R.S. HPF-ETL-CBM	40	34.90

*Tandem.

"CUBEX" SERIES



Completely enclosed one-piece shielding of smooth white opal sides and 45x45 plastic ½x½ cubed louver bottom. Extremely shallow depth for louvered fixture while totally enclosed to eliminate dust from above. Also features "Shift-Lok" design.

Cat. No.	Description	Sq. Ft. Per Fix. 100 fc	Each
CX240	2-40W R.S. HPF-CBM	24	\$20.75
CX240-8*	2-40W R.S. HPF-CBM	48	41.45
CX296-L	2-75W SL-96" HPF-UL	48	38.45
CL440	4-40W R.S. HPF-CBM	50	33.85
CX496-L	4-75W SL-96" HPF-UL	100	50.85

*Tandem.

"SKYLARK" SERIES



An all new series of modular square surface mounted units. Only 3½" deep. New foolproof hinging arrangement locks tight, installs easily, is light-leak-proof. Wide variety of shielding; solid metal of plastic sides; 1x4's, 2x4's and 2x2's. Prismatic bottom.

Cat. No.	Size, Ft.	Lamps	Sq. Ft. Per Fix. 100 fc	Each
SK240-EX	1 x 4	2-40W	20	\$31.80
2SK420-EX	2 x 2	2-20W	30	36.65
2SK440-EX	2 x 4	4-40W	45	45.95

"TITAN" SERIES



Porcelain enameled reflectors with 12% extruded apertures, full transverse ribs, reflector-housing aligning track and recessed captive fastener. Externally grooved white housing with multiple turret lamp holders. ETL-HPF ballasts, individually fused. Full 14" reflector aids in creating amazing photometric efficiency. 2- and 3-lite, RS, 430 ma., 800 ma. and 1500 ma.

Cat. No.	Lamps	Sq. Ft. Per Fix. 100 fc	Each
KP240	2-40W R.S.	30	\$19.40
KP240-8	4-40W R.S.	60	38.80
KP296	2-75W S.L.	50	33.65
KP296-HO	2-105W 800 ma.	65	38.30
KP296-PG	2-215W 1500 ma.	120	49.85

"DYNAMO" SERIES

Premium Heavy-Duty Baked Enamel

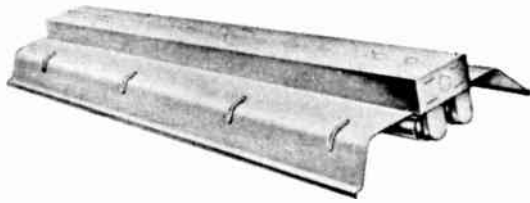


All the features of the "Titan" unit only with a baked enamel reflector, no external fuse. Available in 2-, 3- or 4-lite, RS, 430 ma., 800 ma. or 1500 ma., even with a baked enamel "V"-shield. High power factor ETL-CBM ballasts.

Cat. No.	Lamps	Sq. Ft. Per Fix. 100 fc	Each
KL240	2-40W R.S.	30	\$14.90
KL340	3-40W R.S.	42	21.95
KL440	4-40W R.S.	50	23.75
KL296	2-75W S.L.	50	24.25
KL396	3-75W S.L.	75	35.65
KL496	4-75W S.L.	85	37.85
KL296-HO	2-105W 800 ma.	65	31.25
KL396-HO	3-105W 800 ma.	90	49.20
KL296-PG	2-215W 1500 ma.	120	42.10

KEYSTONE FLUORESCENT FIXTURES

"CR" SERIES



Designed to give maximum efficiency with features usually found only in more expensive units. Each 4-ft. reflector "ribbed" for greater rigidity — easily installed with simple turn of captive fasteners. Two full reflector aligner clips packed with each unit. Units also available with 10% apertured and porcelain enameled reflectors.

Cat. No.	Description	Sq. Ft. Per Fix. 100 fc	Each
CR240	2-40W RS. HPF-UL	30	\$10.15
CR240-B*	2-40W R.S. HPF-UL	30	9.65
CR296	2-75W SL-96" UL	50	15.95
CR296-B*	2-75W SL-96" UL	50	15.25
CR248-HO-BA†	2-800 ma.—4 ft.	35	28.15
CR296-HO-BA†	2-800 ma.—8 ft.	65	29.40
CR248-PG-BA†	2-1500 ma.—4 ft.	55	32.90
CR296-PG-BA†	2-1500 ma.—8 ft.	100	41.60

*Packaged 4 to a carton.
†10% aperture.

"ZIP STRIPS"



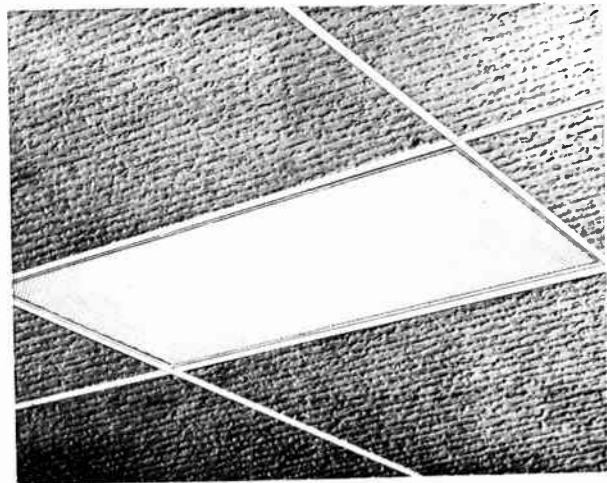
"Zip Strips" feature extremely fast installation. Embossed "snap-fit" cover — no tools required, no loose parts. "Slide-Aligner" combination end-plate coupler snaps on as end cap, slides in as coupler. "Slide-on" sockets slide into place without the use of screws to hold firmly in place.

Cat. No.	Lamps	Bal- last	Dimens., In. W. L.	Sq. Ft. Per Fix. 100 fc	Each
Trigger Start or Rapid Start Fluorescents					
18CH-T	1-15W	NPF	2¾ 18	10	\$4.70
24CH-T	1-20W	NPF	2¾ 24	15	4.70
CH130-R	1-30W	NPF	2¾ 36	20	5.40
CH140-R	1-40W	NPF	2¾ 48	36	5.40
96CH-CR	2-40W	HPF	2¾ 96	72	11.45
C220	2-20W	HPF	4½ 24	30	7.80
C240	2-40W	HPF	4½ 48	65	9.05
448CH-R	4-40W	HPF	9½ 48	120	18.25

430 MA Slimlines

C148	1-38W	4'	HPF	4½	48	36	11.90
C172	1-55W	6'	HPF	4½	72	50	10.45
C196	1-75W	8'	HPF	4½	96	70	10.45
C196-16	2-75W	16'	HPF	4½	192	140	19.15
C248	2-38W	4'	HPF	4½	48	65	11.90
C272	2-55W	6'	HPF	4½	72	95	10.45
C296	2-75W	8'	HPF	4½	96	130	10.45
CH396	3-75W	8'	HPF	10¾	96	190	26.95
CH496	4-75W	8'	HPF	10¾	96	240	25.45

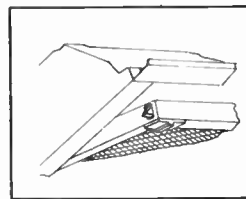
"PATTERN-LITE" RECESSED TROFFERS



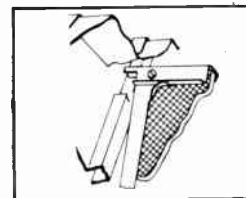
A complete new line of troffers featuring a new, simplified "positive" hinging arrangement for easy installation and removal without unsightly clips or latches showing. New, easy-to-use "uni-lug" standard with flange type units. 1x4 units available in 8 varied shieldings for 2 or 3 lamps. 2x2 and 2x4 units available in 7 different shieldings for 2, 3, 4 or 6 lamps. Flat prismatic shielded units also available in "frameless" type "Refractolens".

Cat. No.	Size, Ft.	Ceiling Type	Lamps	Sq. Ft. Per Fix. 100 fc	Each
Polystyrene Prismatic Shielding					
F240-EX-U	1x4	Flange	2	20	\$26.40
2J440-EX	2x4	Lay-In	4	40	37.75
Dished Polystyrene Plastic Shielding					
F240-DP-P-U	1x4	Flange	2	15	28.75
2J440-DP-P	2x4	Lay-In	4	30	41.70
Plastic Eggcrate Louver Shielding					
F240-PL-U	1x4	Flange	2	15	27.50
2J440-PL	2x4	Lay-In	4	30	42.50

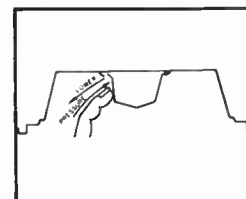
All units equipped with HPF-ETL ballasts.



AUTOMATIC SPRING-LOADED DOOR LATCH. Nearly invisible nylon latch, has been tested for 200,000 operations.



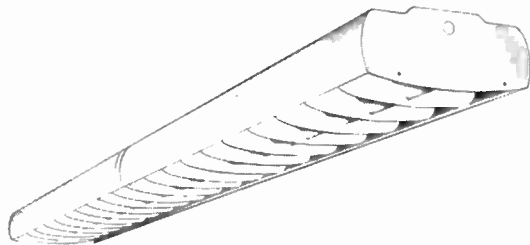
HINGES FROM EITHER SIDE. Shielding frame held positively in place by sliding frame pin into housing slot.



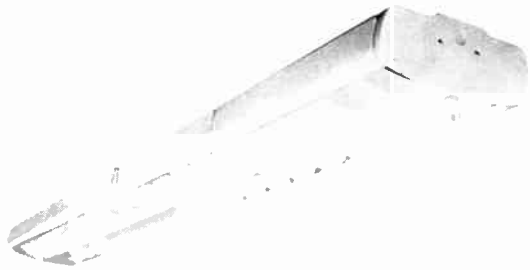
SQUEEZE-TYPE BALLAST COVER. No tools or fasteners required.

LITHONIA FLUORESCENT LIGHTING FIXTURES

CHIEF-LITE SERIES



CL296M



CL296P

Economical high brilliancy (89%) fixture die-formed of heavy-gauge cold rolled steel coated with Crys-Coat for rust prevention, and finished in hot-bonded white enamel. Ribbed channel inter-lock ends for positive alignment and permit use of tong hangers for flexible suspension. Metal sides welded to end plates. Plastic sides models have snap-in styrene panels which are removable Louver sections, 4 ft. Employ finger-touch spring latches and safety chains. The fins interlock with V-Channel for rigidity. Numerous knockouts and mounting holes make easy single or continuous installation, surface or suspended mounting. For both metal and plastic sides the 2-lamp fixtures have 35°-25° cutoff, and the 4-lamp have 40°-25° cutoff.

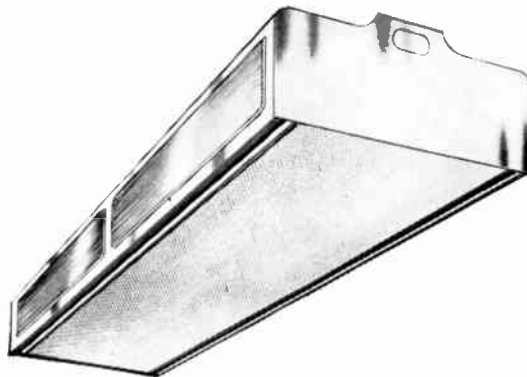
Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start — Metal Sides				
CL240M	2-F40	HPF-ETL	\$14.54	\$15.06
8TCL240M	4-F40	HPF-ETL	29.08	30.09
CL440M	4-F40	HPF-ETL	24.63	25.30
Rapid Start — Plastic Sides				
CL240P	2-F40	HPF-ETL	14.89	15.39
8TCL240P	4-F40	HPF-ETL	29.76	30.78
CL440P	4-F40	HPF-ETL	24.98	25.66
Slimline — Metal Sides				
CL296M	2-F96T12	HPF-UL	24.84	25.80
CL496M	4-F96T12	HPF-UL	39.44	40.83
Slimline — Plastic Sides				
CL296P	2-F96T12	HPF-UL	25.53	26.50
CL496P	4-F96T12	HPF-UL	40.14	41.51

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

CT SERIES



CT240P-PL



CT240P-K

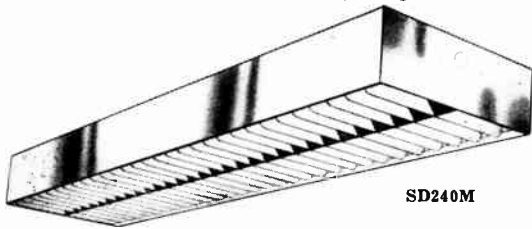
For single or continuous installations, surface or suspended mounting. Die formed and constructed from heavy-gauge cold rolled steel. Numerous knockouts and mounting holes for easy installation. Finished in hot bonded baked white enamel - 90% reflectivity. Enclosures are in four-foot sections for easy maintenance. Snap-in side panels are light stabilized polystyrene. Plasti-Cube Louver - 45°-45° plastic egg crate louver. Channel is ribbed, permitting the use of tong hangers.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start — Plasti-Cube Louvers				
CT240P-PL	2-F40	HPF-ETL	\$17.33	\$17.79
8TCT240P-PL	4-F40	HPF-ETL	34.65	35.55
CT340P-PL	3-F40	HPF-ETL	25.04	25.58
8TCT340P-PL	6-F40	HPF-ETL	46.54	47.61
CT440P-PL	4-F40	HPF-ETL	25.04	25.58
8TCT440P-PL	8-F40	HPF-ETL	50.09	51.18
Slimline — Plasti-Cube Louvers				
CT296P-PL	2-F96T12	HPF-UL	29.58	30.41
CT396P-PL	3-F96T12	HPF-UL	39.38	40.38
CT496P-PL	4-F96T12	HPF-UL	39.38	40.38
Rapid Start — Polystyrene Pyramidal Lens				
CT240P-K	2-F40	HPF-ETL	17.33	17.79
8TCT240P-K	4-F40	HPF-ETL	34.65	35.55
CT340P-K	3-F40	HPF-ETL	25.04	25.58
8TCT340P-K	6-F40	HPF-ETL	46.54	47.61
CT440P-K	4-F40	HPF-ETL	25.04	25.58
8TCT440P-K	8-F40	HPF-ETL	50.09	51.18
Slimline — Polystyrene Pyramidal Lens				
CT296P-K	2-F96T12	HPF-UL	29.58	30.41
CT396P-K	3-F96T12	HPF-UL	39.38	40.38
CT496P-K	4-F96T12	HPF-UL	39.38	40.38

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

LITHONIA FLUORESCENT LIGHTING FIXTURES

SHALLOW DEPTH SERIES



SD240M

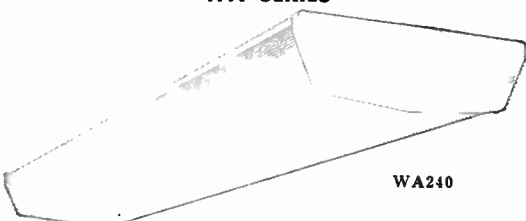
Features extremely shallow depth: 3 3/4". For flush or stem mounting; metal or plastic sides; open top or top reflectors; with architectural simplicity and high efficiency.

Metal louvers have 30°-45° cutoff, are removable by releasing spring latch and are supported by chains for relamping. Channel is ribbed for suspension by tong hangers.

Die-formed of heavy gauge cold rolled steel, and welded. Finished in high reflectance hot-bonded white enamel over Crys-Coat film for rust prevention. Channel ends mechanically interlock, assuring positive alignment. Wire rods interlock louver fins with V-Channel for rigidity. Snap-in side panels are light stabilized polystyrene.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start — Metal Sides				
SD240M	2-F40	HPF-ETL	\$18.71	\$19.19
8TSD240M	4-F40	HPF-ETL	37.43	38.36
SD440M	4-F40	HPF-ETL	29.64	30.35
Rapid Start — Plastic Sides				
SD240P	2-F40	HPF-ETL	18.71	19.19
8TSD240P	4-F40	HPF-ETL	37.43	38.36
SD440P	4-F40	HPF-ETL	29.64	30.35
Slimline — Metal Sides				
SD296M	2-F96T12	HPF-UL	31.76	33.49
SD496M	4-F96T12	HPF-UL	45.15	47.93
Slimline — Plastic Sides				
SD296P	2-F96T12	HPF-UL	31.76	33.49
SD496P	4-F96T12	HPF-UL	45.15	47.93

WA SERIES



WA240

For single or continuous installation, surface or suspended mounting. Die formed from heavy gauge cold rolled steel, numerous knock-outs and mounting holes for easy installation. Plasti-Lens® diffuser is a light stabilized polystyrene having pyramidal lens that provide high efficiency and low surface brightness. Diffuser is easily removed for maintenance. Wide "V" reflector provides shadowless surface illumination. Length: 48"; 96"; width: 12"; 18"; height: 3 1/2".

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start — Polystyrene Pyramidal Lens				
WA240	2-F40	HPF-ETL	\$16.00	\$16.35
8TWA240	4-F40	HPF-ETL	32.00	32.70
WA440	4-F40	HPF-ETL	28.53	29.21
8TWA440	8-F40	HPF-ETL	57.04	58.44
Slimline — Polystyrene Pyramidal Lens				
WA296	2-F96T12	HPF-ETL	29.78	30.61
WA496	4-F96T12	HPF-ETL	49.09	50.63

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

TROFFERS



2F440PL

Recessed Troffers, especially designed for all ceiling suspension systems with easy installation in mind. Die-formed of heavy gauge cold rolled steel, and welded. All are coated with Crys-Coat for rust prevention and finished in hot bonded white enamel, with 90% reflectivity.

The flush seating door frame hinges from either side, or is completely removable. Features new inconspicuous sliding cam latch. Foam plastic seal attached to shielding frame eliminates light leakage. Shielding media available in eight designs in the industry's most advanced material.

All troffers available for lay-in grid ceilings. Order G instead of F.

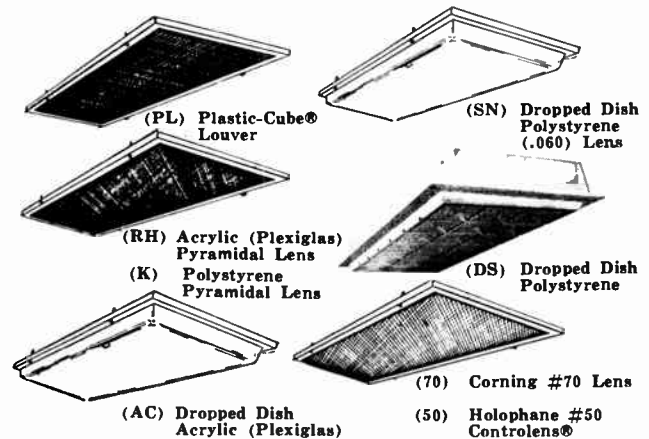
Plasti-Cube Louvers

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
12" Wide — Rapid Start & Slimline				
F240PL	2-F40	HPF-ETL	\$25.53	\$26.16
8TF240PL	4-F40	HPF-ETL	51.06	52.31
F340PL	3-F40	HPF-ETL	30.75	31.38
8TF340PL	6-F40	HPF-ETL	57.95	59.20
F296PL	2-F96T12	HPF-UL	44.45	46.85
F396PL	3-F96T12	HPF-UL	53.01	54.35
24" Wide — Trigger Start, Rapid Start & Slimline				
2F220PL	2-F20T12	LPF-UL	33.25	33.69
2F320PL	3-F20T12	LPF-UL	35.63	36.24
2F420PL	4-F20T12	LPF-UL	35.63	36.24
2F240PL	2-F40	HPF-ETL	36.03	37.00
8T2F240PL	4-F40	HPF-ETL	72.08	73.99
2F340PL	3-F40	HPF-ETL	39.59	40.54
8T2F340PL	6-F40	HPF-ETL	75.61	77.53
2F440PL	4-F40	HPF-ETL	39.59	40.54
8T2F440PL	8-F40	HPF-ETL	79.16	81.09
2F296PL	2-F96T12	HPF-UL	64.21	65.81
2F396PL	3-F96T12	HPF-UL	69.08	70.91
2F496PL	4-F96T12	HPF-UL	69.08	70.91

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

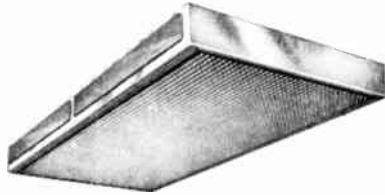
Note 1: When ordering "F" troffers, specify row arrangement. Note 2: "F" and "2F" troffers only have Swing Gate (pat. pend.) mounting supports attached.

SHIELDING MEDIA AVAILABLE
For "F" and "G" Series Troffer Ceilings and
"M" Series Modular Fixtures
 (Add Diffuser Suffix to Catalog Number)



LITHONIA FLUORESCENT LIGHTING FIXTURES

M SERIES



2M240P-PL

Attractive surface fixture die-formed of heavy gauge cold rolled steel, and welded. All are coated with Crys-Coat for rust prevention and finished in bonded white enamel, with 90% reflectivity.

The flush seating door frame hinges from either side, or is completely removable. Foam plastic seal attached to shielding frame eliminates light leakage. Shielding media available in six designs, in the industry's most advanced material.

Sizes are 1'x4' — 2'x2', 2'x4'. Ballasts are HPF or LPF, approved by UL or ETL. Lamps are Trigger Start, Rapid Start and Slimline. Adequate knockouts to simplify wiring make for ease of installation. All are UL approved.

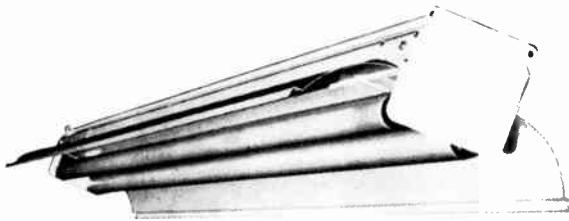
Metal sided units also available.

Plastic Sides — Plasti-Cube Louvers

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
12" Wide — Rapid Start				
M240P-PL	2-F40	HPL-ETL	\$25.04	\$25.65
24" Wide — Trigger Start & Rapid Start				
2M220P-PL	2-F20T12	LPF-UL	28.59	29.09
2M420P-PL	4-F20T12	LPF-UL	33.54	34.09
2M240P-PL	2-F40	HPF-ETL	35.90	36.73
2M440P-PL	4-F40	HPF-ETL	39.80	40.71

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

EJ INDUSTRIAL SERIES



EJ240

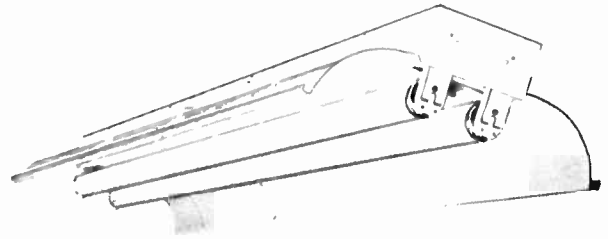
For single or continuous installations, surface or suspended mounting. Die formed and constructed from heavy-gauge cold rolled steel. Numerous knockouts and mounting holes for easy installation. Finished in hot bonded baked white enamel, 90% reflectivity. Metal backed tombstone sockets.

One-piece reflector with captive latches. Snap-in Socket Tracks. Two end plates and one connector strap supplied with each fixture. Thru wire way for continuous runs.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start				
EJ240	2-F40	HPF-ETL	\$ 9.80	\$10.19
EJ340	3-F40	HPF-ETL	18.93	19.51
EJ440	4-F40	HPF-ETL	18.93	19.51
Slimline				
EJ296	2-F96T12	HPF-UL	16.43	17.14
EJ396	3-F96T12	HPF-UL	28.38	29.51
EJ496	4-F96T12	HPF-UL	28.38	29.51

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

LANCER SERIES



L240

Economical, highly efficient industrial fixture in 4' Rapid Start and 8' Slimline. Die-formed of heavy gauge cold rolled steel. Finished in hot bonded white enamel, 90%.

The reflector is heavily embossed for rigidity and has captive latches, allowing for easy removal from the channel. All of the light is directed downward by the reflector, providing abundant illumination to the working plane.

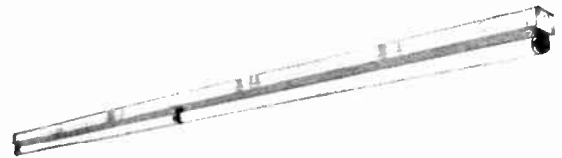
Fixtures come equipped with convertible snap-on connector strap/end plates and reflector aligner straps for use individually or in continuous rows.

This series is equally suitable for either surface or suspension mounting.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Non-Apertured — Rapid Start				
L240	2-F40	HPF-UL	\$ 9.41	\$ 9.79
8TL240	4-F40	HPF-UL	18.81	19.59
Non-Apertured — Slimline				
L296	2-F96T12	HPF-UL	14.60	15.36
Apertured — Rapid Start				
LA240	2-F40	HPF-UL	9.41	9.79
8TLA240	4-F40	HPF-UL	18.81	19.59
Apertured — Slimline				
LA296	2-F96T12	HPF-UL	14.60	15.36

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

STRIP LIGHTING



8TS140H-RS

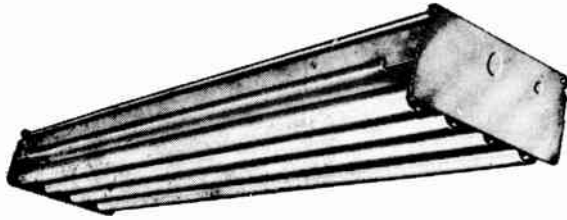
Die-formed heavy-gauge steel coated with rust inhibitor and finished in hot-bonded high reflectance enamel. Captive latches secure reflector. Made in lamp size lengths. Completely wired. UL listed.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Pre-Heat				
S115PH	1-F15T12	LPF-UL	\$2.64	\$2.64
S120PH	1-F20T12	LPF-UL	2.64	2.64
S130PH	1-F30T8	LPF-UL	4.31	4.31
S140PH	1-F40	LPF-UL	4.11	4.11
Trigger Start				
S115TS	1-F15T12	LPF-UL	4.31	4.38
S120TS	1-F20T12	LPF-UL	4.31	4.38
Rapid Start				
S130RS	1-F30T8	LPF-UL	5.08	5.08
S140RS	1-F40	LPF-UL	5.08	5.08
S140H-RS	1-F40	HPF-ETL	8.29	8.41
8TS140H-RS	2-F40	HPF-ETL	10.65	10.91
With Dimming Ballasts				
S140RS-LD	1-F40	LPF	9.40	9.53
S140RS-HD	1-F40	HPF	12.18	12.34

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.

LITHONIA FLUORESCENT LIGHTING FIXTURES

UNIVERSAL SERIES



UN440

Rigid die-formed of heavy-gauge cold rolled steel with Crys-Coat film. Features snap-in socket track for protection of sockets and fast installation. Connector strap and two end plates furnished. One-piece reflector secured to channel by captive latches. For all conventional hanging methods including tong hangers. Completely wired. UL approved.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
Rapid Start				
UN240	2-F40	HPF-ETL	\$9.33	\$9.64
UN440	4-F40	HPF-ETL	16.84	17.35

Slimline

UN148	1-F48T12	HPF-ETL	14.68	15.03
UN172	1-F72T12	HPF-UL	13.85	14.40
UN196	1-F96T12	HPF-UL	13.85	14.40
UN196B†	1-F96T12	HPF-UL	13.85	14.40
8TUN196	2-F96T12	HPF-UL	19.34	20.26
8TUN196B†	2-F96T12	HPF-UL	19.34	20.26
UN248	2-F48T12	HPF-ETL	14.68	15.03
UN272	2-F72T12	HPF-UL	13.85	14.40
UN296	2-F96T12	HPF-UL	13.85	14.40
UN296B†	2-F96T12	HPF-UL	13.85	14.40
UN348	3-F48T12	HPF-ETL	26.99	27.51
UN372	3-F72T12	HPF-UL	24.90	25.81
UN396	3-F96T12	HPF-UL	24.90	25.81
8TUN396	6-F96T12	HPF-UL	45.58	47.24
UN448	4-F48T12	HPF-ETL	25.60	26.13
UN472	4-F72T12	HPF-UL	23.59	24.50
UN496	4-F96T12	HPF-UL	23.59	24.50

High Output

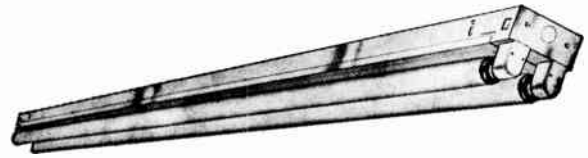
UN148HO	1-F48T12HO	HPF-UL	18.98	19.38
UN172HO	1-F72T12HO	HPF-ETL	21.30	21.89
UN196HO	1-F96T12HO	HPF-ETL	21.30	21.89
8TUN196HO	2-F96T12HO	HPF-ETL	26.86	27.90
UN248HO	2-F48T12HO	HPF-UL	23.03	23.39
UN272HO	2-F72T12HO	HPF-ETL	21.38	22.15
UN296HO	2-F96T12HO	HPF-ETL	21.38	22.15
UN296HO-B†	4-F96T12HO	HPF-ETL	21.38	22.15

1500 M.A.

UN148PG	1-F48T12**	HPF-UL	26.83	27.30
UN172PG	1-F72T12**	HPF-UL	27.09	27.73
UN196PG	1-F96T12**	HPF-UL	27.09	27.73
8TUN196PG	2-F96T12**	HPF-UL	32.29	34.31
UN248PG	2-F48T12**	HPF-UL	28.29	28.63
UN272PG	2-F72T12**	HPF-ETL	33.81	34.64
UN296PG	2-F96T12**	HPF-ETL	33.81	34.64

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.
 **Power Groove (PG), Very High Output (VHO), Super High Output (SHO).
 †Bulk packed, 4 to a carton.

CHANNEL SERIES



C296

For single or continuous installations, surface or suspended mounting. Die formed and constructed from heavy gauge cold rolled steel. Finished in hot bonded baked white enamel, 90% reflectivity.

One-piece reflector secured by captive latches. Snap-in Socket Track. Combination snap-in end plate connector.

Cat. No.	Lamps	Ballast	Each	
			Eastern	Western*
C120	1-F20T12	LPF-UL	\$8.41	\$ 8.64
C220	2-F20T12	LPF-UL	8.41	8.64
C140	1-F40	HPF-UL	8.41	8.64
8TC140	2-F40	HPF-UL	13.91	14.40
C240	2-F40	HPF-UL	8.41	8.64
8TC240	4-F40	HPF-UL	16.84	17.29
C148	1-F48T12	HPF-ETL	12.31	12.65
C172	1-F72T12	HPF-UL	9.78	10.25
C196	1-F96T12	HPF-UL	9.78	10.25
C196B†	1-F96T12	HPF-UL	9.78	10.25
8TC196	2-F96T12	HPF-UL	17.75	18.51
8TC196B†	2-F96T12	HPF-UL	17.75	18.51
C248	2-F48T12	HPF-ETL	12.31	12.65
C272	2-F72T12	HPF-UL	9.78	10.25
C296	2-F96T12	HPF-UL	9.78	10.25

*Western Zone: All states west of and including Montana, Wyoming, Colorado, New Mexico.
 †Bulk packed, 4 to a carton.

FLUORESCENT FIXTURE ACCESSORIES

Cat. No.	Description	Each
Swivel Stem Sets		
(Complete With Canopy, Hickey & Fittings)		
SQ-8"-U	8" Single Stem Set—Unit Pack	\$1.39
SQ-12"-U	12" Single Stem Set—Unit Pack	1.39
SQ-18"-U	18" Single Stem Set—Unit Pack	1.39
SQ-24"-U	24" Single Stem Set—Unit Pack	1.39
SQ-8"-B	8" Single Stem Set—Bulk Pack*	1.50
SQ-12"-B	12" Single Stem Set—Bulk Pack*	1.50
SQ-18"-B	18" Single Stem Set—Bulk Pack*	1.50
SQ-24"-B	24" Single Stem Set—Bulk Pack*	1.50
2	24" Double Stem Set	2.58

*4 per carton.

Miscellaneous Accessories

Q	Canopy Only with Hickey & Fittings less Pipe Stem	.70
1B	1½" to 2½" Ceiling Spacer	.49
10A	Juncture Only with Fittings less Pipe and Canopy	.84
YC	Pair 36" "Y" Chain Hangers	.70

Tongs (Slide Clamps)

(Less Canopy, Hickey & Fittings)

102B-1†	Tongs for 5/8" Stem	.55
102B-2†	Tongs for 3/4" Rod	.55
102B-3†	Tongs for 3/8" Rod	.55
103B-1‡	Tongs for 5/8" Stem	.70
103-B2‡	Tongs for 3/4" Rod	.70
103B-3‡	Tongs for 3/8" Rod	.70
105A-1*	Tongs for 5/8" Stem	.55
105A-2*	Tongs for 3/4" Rod	.55
105A-3*	Tongs for 3/8" Rod	.55
106A-1•	Tongs for 5/8" Stem	.55
106A-2•	Tongs for 3/4" Rod	.55
106A-3•	Tongs for 3/8" Rod	.55

†For SL series, 2 lamp EJ, 1 and 2 lamp UN, SD, AF, AV and CL series only.

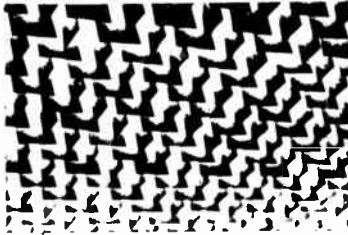
‡For 3 and 4 lamp EJ, UN and 2UN series only.

*For CT series only.

•For C, L and LA series only.

LUMINOUS CEILING LIGHT DIFFUSERS AND SUSPENSION SYSTEMS

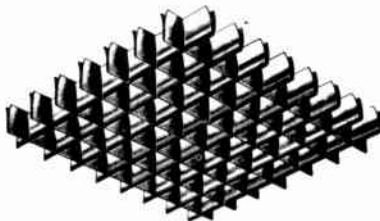
A variety of light diffusers and suspension systems to achieve almost any effect in large luminous sections. Meet the rigid requirements of leading Architects, Engineers and Contractors.

**LEAF-LITE**

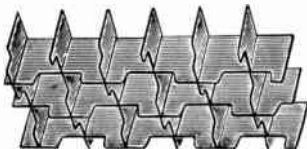
A non-modular louver-type of luminous ceiling with complete color selectivity.

**SQUIGGLE**

A non-modular plastic louver-type of luminous ceiling without visible support.

**PARABOLIC ALUMINUM LOUVER**

(23 $\frac{3}{8}$ " x 23 $\frac{3}{8}$ ") or (23 $\frac{3}{8}$ " x 47 $\frac{3}{8}$ ") or (35 $\frac{3}{8}$ " x 35 $\frac{3}{8}$ ") or (47 $\frac{3}{8}$ " x 47 $\frac{3}{8}$ ") in a variety of finishes, with $\frac{3}{4}$ " parabolic-shaped cells.

**TEXTURE-LUMINUS ALUMINUM LOUVER**

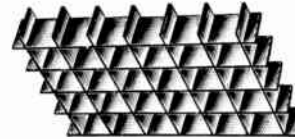
(23 $\frac{5}{8}$ " x 23 $\frac{5}{8}$ ") or (23 $\frac{5}{8}$ " x 47 $\frac{5}{8}$ ") or (35 $\frac{5}{8}$ " x 35 $\frac{5}{8}$ ") in painted white or anodized clear, in $\frac{5}{8}$ " cell size with 45° to 55° shielding.

 **$\frac{5}{8}$ " CELL VINYL LOUVER TEXTURE-LUMINUS**

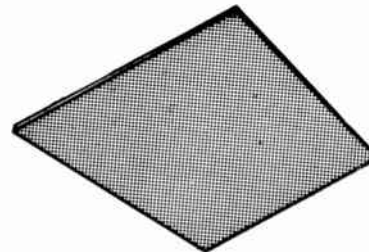
(23 $\frac{5}{8}$ " x 47 $\frac{5}{8}$ ") or (23 $\frac{5}{8}$ " x 23 $\frac{5}{8}$ ") in white, with 45° to 55° shielding. (Also available as closed panel.)

 **$\frac{9}{16}$ " CUBE POLYSTYRENE PLASTIC LOUVER**

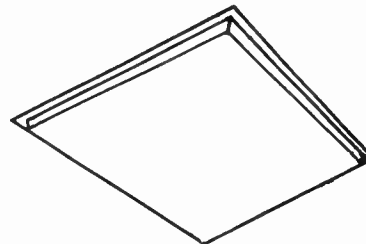
(35 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") or (23 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") or (29 $\frac{3}{4}$ " x 59 $\frac{3}{4}$ ") in white, with 45° shielding.

 **$\frac{1}{2}$ " or $\frac{3}{8}$ " CUBE ALUMINUM LOUVER**

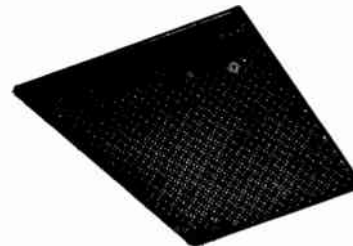
(23 $\frac{5}{8}$ " x 23 $\frac{5}{8}$ ") or (25 $\frac{5}{8}$ " x 47 $\frac{5}{8}$ ") or (47 $\frac{5}{8}$ " x 47 $\frac{5}{8}$ ") in painted white or anodized clear, with 45° shielding.

**ACRIGLAS FLAT**

(47 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") .094" thick, special acrylic-fiberglass panel, in matte white.

**ACRYLIC DISHED PANELS**

(23 $\frac{3}{4}$ " x 23 $\frac{3}{4}$ ") or (23 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") or (35 $\frac{3}{4}$ " x 35 $\frac{3}{4}$ ") or (47 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") in white or matte white .125" thick.

**ACRYLIC OR POLYSTYRENE LENSES**

(23 $\frac{3}{4}$ " x 23 $\frac{3}{4}$ ") or (23 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ ") in clear or white .125" thick.

**POLYSTYRENE PARAHX**

(23 $\frac{11}{16}$ " x 23 $\frac{5}{8}$ ") or (23 $\frac{11}{16}$ " x 47 $\frac{9}{16}$ ") in satin aluminum, specular and white in parabolic $\frac{9}{16}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ " deep cell size with 45° shielding. (Also available in Acrylic.)

CONTACT NEAREST GRAYBAR OFFICE FOR COMPLETE INFORMATION AND PRICES

MOLDCAST LIGHTING

First in outdoor lighting — with the widest selection of die cast aluminum weatherproof fixtures — offering beautifully designed, ruggedly constructed fixtures for every outdoor lighting application.

DELUXE BULLET

131 Series. Side swivel for PAR-38 and R-40 medium base lamps, 75 to 300 watt.

7½" long bullet with 5¼" dia. x ½" high canopy plate. Die cast aluminum, weatherproof. Silicone weatherseal.



Cat. No.	Finish	Each
ML-131	Luster Light*	\$7.63
MP-131	Baked Enamel**	5.44
M-131	Aluminum Spray	4.69

*MLA — Polished Aluminum; MLS — Satin Aluminum.

**MPB — Black Wrinkle; MPG — Green Wrinkle; MPW — White.

SUPER BULLET

231 Series. Side swivel for PAR-38 and R-40 medium base lamps, 75 to 300 watt.

Sleek 11" long super bullet provides a 45° light cutoff with R-40. Modern bold design with silicone weatherseal. 5¼" canopy plate furnished.



Cat. No.	Finish	Each
ML-231	Luster Light*	\$12.69
MP-231	Baked Enamel**	8.31
M-231	Aluminum Spray	7.13

*MLA — Polished Aluminum; MLS — Satin Aluminum.

**MPB — Black Wrinkle; MPG — Green Wrinkle; MPW — White.

PORTABLE BULLET

Complete with 6' of 3-wire outdoor cord and plug and 8" lawn stake. To beautifully illuminate your garden, trees, backyard, patios, etc. Fixture completely encloses PAR-38 or R-40 lamps.



Cat. No.	Finish	Each
MPB-9563	Black Wrinkle	\$6.30

"TOP QUALITY" LAMPHOLDER

Silicone weatherseal, serrated and calibrated swivel. Heat dissipating ribs in a rugged die cast aluminum housing. For PAR-38 or R-40 lamps.



Cat. No.	Finish	Each
M-430	Weatherbrite Alum. Paint	\$1.88

300 WATT FLOODLIGHT

Spring toggle clamps hold lamp and allow free air movement within housing for long lamp life. Protective lens assembly allows for up or down lighting. For PAR-56 lamp.



Cat. No.	Finish	Each
MA-156	Weatherbrite Alum. Paint	\$11.85

PERFORATED HOUR GLASS

Encloses two PAR-38 lamps. MPB-76 clear lens protective assembly and 5¼" canopy plate. Both cones weatherproofed with silicone weatherseals. Cast aluminum.



Cat. No.	Finish	Each
ML-869	Luster Light*	\$27.50
MP-869	Baked Enamel**	23.00
M-869	Aluminum Spray	21.25

*MLA — Polished Aluminum; MLS — Satin Aluminum.

**MPB — Black Wrinkle; MPG — Green Wrinkle; MPW — White.

TRIANGULAR WALL BRACKETS

A complete new line of cast aluminum wall brackets for outdoor and indoor use. With unique triangular design, cast aluminum guards, vapor-proof construction and a choice of clear anodized finish or Moldcast Luster Light finish in Satin Aluminum.



Cat. No.	Lamp Watts	Guard	Each	
			Anodized*	Luster Light**
1000	100	No	\$ 8.44	\$ 8.00
2000	200	No	19.50	18.88
1050	100	Yes	11.56	11.12
2050	200	Yes	24.50	23.87

*AN — Anodized Clear Satin Aluminum.

**MLS — Satin Aluminum.

POLE BASES

Cast aluminum bases for 2", 2½" and 3" steel or aluminum conduit. Complete with anchor bolts, hand hole cover and mounting template. Ideal for low level illumination to 20' heights. Weatherbrite aluminum paint finish.



Cat. No.	For Conduit	Each
M-1500	2"	\$16.74
M-1520	2½"	17.82
M-1530	3"	19.26

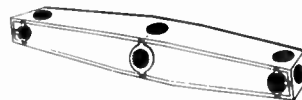
WIRING BOXES

Boxes have gasketed cast aluminum cover with mounting lugs. ½" tapped holes.



Cat. No.	Dia.	Holes	Each
M-17	3½"	4 side, 1 rear, 1 cover, 3 plugs	\$1.56
M-25	4"	6 side, 1 rear, 1 cover, 4 plugs	2.08

WIRING TROUGH



13" wiring trough with gasketed cast aluminum cover. Eleven ½" tapped holes; ½" nipple. 5-close-up plugs. Accommodates up to six MA-156 fixtures or 10 lampholders.

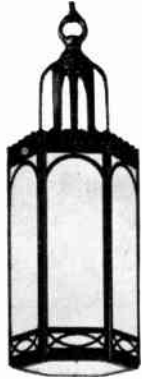
No. M-90 Wiring Trough.....each \$2.79

NL CHURCH LIGHTING

High quality lighting equipment which will add immeasurably to the beauty and lighting efficiency of any church installation.

For special applications, modifications from these standard designs can easily be made to meet specific or particular application.

COLONIAL DESIGN NAVE LANTERN



Cat. No.	Body Dia.	Body Lgth.	Lgth. O.A.	Steel Each	Copper Each
Lamps: 1 — 200W					
CH233	10"	25"	6'	\$ 75.00	\$127.50
Lamps: 1 — 200 & 3 — 60W					
CH234	12"	34"	10'	108.00	165.00
Lamps: 1 — 300 & 3 — 75W					
CH235	14"	36"	10'	124.50	187.50
Lamps: 1 — 500 & 3 — 100W					
CH236	16"	41"	10'	141.00	210.00
Lamps: 1 — 750 R52 & 6 — 100W					
CH415*	18"	47"	15"	207.00	294.00

Access doors for relamping.
Body length excludes Chain Hanger.
*18" diameter size furnished with Louver.
For exterior use, specify copper metal.

COLONIAL DESIGN PENDANT TYPE



Cat. No.	Body Dia.	Lgth. O.A.	Body Lgth.	Lamps	Steel Each
CH354	18"	42"	12½"	6-100W	\$121.50
CH355	24"	48"	16½"	6-200W	144.00

Can be furnished with louver bottom and center downlight at slight extra charge.

COLONIAL DESIGN BRACKET LANTERN



Cat. No.	Roof Dia.	Height O.A.	Wall Plate	Steel Each	Copper Each
Lamps: 1 — 100W					
D8722	8½"	13"	4½" x 11"	\$46.50	\$57.00
Lamps: 1 — 150W					
D8730	9"	19½"	4½" x 12"	55.50	69.00

Extension: 11".
For exterior use, specify copper metal.

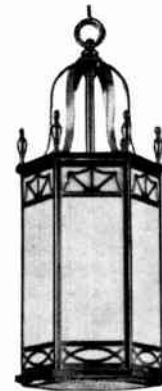
COLONIAL DESIGN WALL POCKET LANTERN



Cat. No.	Width	Height	Ext.	Lamps	Steel Each
CH237	8"	10¾"	4"	1-100W	\$30.00
CH435	10"	15½"	4¾"	2-100W	36.00

Open top — glass bottom.
Interior use only.

COLONIAL DESIGN NAVE LANTERN



Cat. No.	Body Dia.	Body Lgth.	Lgth. O.A.	Steel Each	Copper Each
Lamps: 1 — 200 & 3-60W					
D8747	12"	35"	10'	\$132.00	\$186.00
Lamps: 1 — 300 & 3 — 75W					
D8748	14"	37"	10'	150.00	219.00
Lamps: 1 — 500 & 3 — 100W					
D8749	16"	41"	10'	171.00	255.00
Lamps: 1 — 750 R52 & 6 — 100W					
D8810*	18"	48"	15'	237.00	345.00

Access doors for relamping.
Body length excludes Chain Hanger.
*18" diameter size furnished with Louver.
For exterior use, specify copper metal.

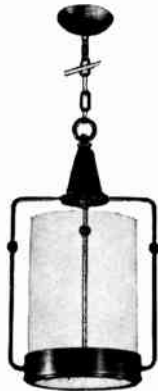
TRADITIONAL GOTHIC NAVE LANTERN



Cat. No.	Body Dia.	Body Lgth.	Lgth. O.A.	Steel Each
Lamps: 1 — 300 R40 & 3 — 60W				
CH177	12"	38"	10'	\$132.00
Lamps: 1 — 300 R40 & 3 — 75W				
CH178	14"	45"	10'	153.00
Lamps: 1 — 500 R40 & 6 — 100W				
CH179	16"	51"	10'	177.00
Lamps: 1 — 750 R52 & 6 — 100W				
CH180	18"	56"	15'	243.00

Hinged louver bottom and removable side door.
Body length excludes Chain Hanger.

NL CHURCH LIGHTING
CONTEMPORARY NAVE LANTERN



Cat. No	Cyl. Size	Body Lgth.	Lgth. O.A.	Steel Each
Lamps: 1 — 300 R40 & 3 — 75W				
6180	10" x 16"	31"	10'	\$112.50
Lamps: 1 — 300 or 500 R40 & 3 — 100W				
6181	12" x 18"	34"	10'	135.00
Lamps: 1 — 500 or 750 R52 & 6 — 60 to 100W				
6182	14" x 20"	38"	10'	172.50

Hinged louver bottom.
R40 and R52 are Reflector Floodlamps.
Standard Glass: Opal.
Wide spread control lens for standard inside frosted lamps can be furnished instead of louver bottom at slight additional charge.
Body length excludes Chain Hanger.

DIRECT-THE-LIGHT ADJUSTABLE
FLOODLIGHT REFLECTORS



Cat. No.	Angle	Depth	Lgth. O.A.	Steel Each
Lamps Furnished: 3 — 150W PAR-38				
CH215	8" x 8"	6 3/4"	32"	\$ 72.75
Lamps Furnished: 1 — 150W PAR-38				
CH221	8" x 8"	6 3/4"	10 3/4"	30.00
Lamps Furnished: 2 — 150W PAR-38				
CH222	8" x 8"	6 3/4"	21"	56.25
Lamps Furnished: 1 — 300W PAR-56				
CH224	10" x 10"	9 1/2"	13 1/2"	57.00
Lamps Furnished: 2 — 300W PAR-56				
CH225	10" x 10"	9 1/2"	27"	76.25
Lamps Furnished: 3 — 300W PAR-56				
CH226	10" x 10"	9 1/2"	40 1/2"	120.00

All side prong lamps.
Equipped and furnished with gimbal rings and floodlamps. Can be mounted vertically or horizontally behind 8" or 10" beam or projection. Knockouts provided in inner wireway.
Color filters and louvers available.
Finish: Alumac. Optional: Prime coat or any of the ecclesiastical finishes to match other fixtures used.

FREE LAYOUT ASSISTANCE
IS AVAILABLE FROM
EITHER GRAYBAR OR NL
ENGINEERING DEPARTMENT

HOUSE-O-LITE FLUORESCENT
FIXTURES

TWO-LITE FLUORESCENT CHROME
WALL BRACKET
With Angular Plastic Shield



Easy installation—easy maintenance—completely wired—ready for use. Creates eye appeal with ideal lighting in the small rooms—rest rooms—in churches, hotels, homes, stores, auditoriums, hospitals, schools and theatres. All models with convenient outlet and pull switch.

Cat. No.	Description	Lgth. In.	Each
1863-TS	2-Lite 15 Watt LPE	18 1/2	\$13.73
1873-TS	2-Lite 20 Watt LPF	24 1/2	14.30
1883-RS	2-Lite 30 Watt HPF	36 1/2	17.84
1893-RS	2-Lite 40 Watt HPF	48 1/2	18.40

TS — Trigger start. RS — Rapid start.

FLUORESCENT CORRIDOR LITE
Conventional and Slimline Models

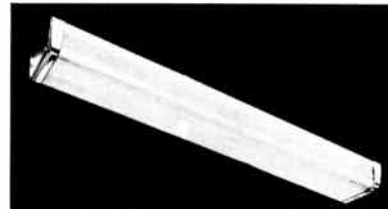


Highest efficiency one lite units with all metal hinged louvers. Designed and ideal for commercial, institutional and industrial lighting requirements in narrow areas—the corridors, stairways, over library stacks, stock bins, filing cabinets and tool cribs. Beautifully finished at 350° F. with top quality durable, chip-proof white baked enamel.

Cat. No.	Description	Lgth. In.	Each
1630-RS	1-40 Watt LPF	48	\$12.81
1631-RS	1-40 Watt HPF	48	16.05
1632-RS	1-40 Watt HPF	96	25.30
(2-40 Watt in Tandem 8-foot long)			
Slimline			
1640-96	1-Lite T-12	96	27.19
1640-48	1-Lite T-12	48	20.70

RS — Rapid Start.

WRAP-AROUND PLASTIC FIXTURE



Another House-O-Lite Rapid Start fixture that is ideal for use in offices, theatres, halls, display rooms, taverns, hospitals, restaurants, churches and schools. So easy to install and maintain. All wired—ready for use. Can be installed as individual units or in a row. Chrome or white ends.

Cat. No.	Description	Lgth. In.	Each
2451-C	2-40 Watt RS	50	\$18.07
2451-W	2-40 Watt RS	50	17.64
2451-LE	2-40 Watt RS	50	16.24
2451-8-C*	2-40 Watt RS	98	33.60
2451-8-W*	2-40 Watt RS	98	33.17
2451-8-LE*	2-40 Watt RS	98	31.77

*In tandem 8' long.
C — Chrome Ends. W — White Ends. LE — less Ends.

PRESCOLITE LIGHTING FIXTURES

PRESCOLITE Hand-Blown Thermopal DRUM LIGHTS with "DieLux"® Diecast Aluminum Pan and Mechanism. Matte White finish standard. Brushed Aluminum available at slight additional cost.



Cat. No.	Watts	Dimensions	Each
7009	2-60W	9" square x 5 1/4" deep	\$12.32
7012	4-60W	12 3/4" square x 5 1/2" deep	21.42
Round			
7808	1-60W	8" dia. x 4 1/8" deep	6.44
7810	2-60W	10" dia. x 4 1/2" deep	7.41
7812	4-60W	12" dia. x 5 1/2" deep	9.20
7814	4-60W	14" dia. x 5 1/2" deep	10.99
7816	4-60W	16" dia. x 5 1/2" deep	15.60

PRESCOLITE DIECAST ALUMINUM WALL BRACKET and CEILING FIXTURES for indoor and outdoor use.

Hand-blown, white opal enclosing globes are furnished with heat proof neoprene gaskets. No. WB-2 fits 3 1/4" O.B. — all others fit 3 1/4" or 4" outlet boxes.



WB-2 (100W)
\$5.17



WB-24 (100W)
\$5.36



WB-2-2 (2-100W)
\$10.37



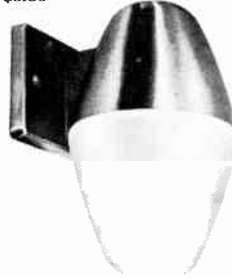
CF-2 (100W)
\$3.54

FINISHES

Brushed Aluminum standard. Matte White same price. Bronzatic™ also available at slight additional cost.



WB-25 (150W)
\$6.34



WB-125 (150W)
\$10.24



CF-25 (150W)
\$4.52

PRESCOLITE HEAVY DUTY SWIVEL SERIES — Featuring the industry's finest diecast swivel — engineered to retain a desired position. Metal cones standard without perforations.

"DieLux" Diecast aluminum cones, canopies, and swivels. Fit 3 1/4" or 4" outlet boxes. For ceiling or wall mounting. L-1 diecast louver available @ \$0.65 ea.



A-44 (150W, R40)
\$6.47



B-44-2 (2-150W, R40)
\$10.89

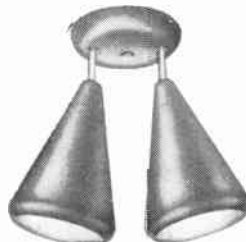


B-44-3 (3-150W, R40)
\$14.27

For ceiling or wall mounting on 3 1/4" or 4" outlet boxes. Metal cones standard without perforations. L-2 diecast louver available @ \$0.65 ea.



A-14 (150W, R40)
\$8.13



B-14-2 (2-150W, R40)
\$13.62



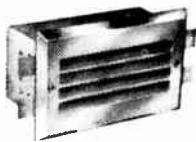
B-14-3 (3-150W, R40)
\$17.71



AX-14 (150W, R40)
\$10.89

FINISHES: Brushed Aluminum is standard. Matte White same price. Bronzatic™ or Synthetic Satin Brass available at slight additional cost.

PRESCOLITE AISLE LIGHTS (15-25W) Incandescent units standard, Fluorescent units available. Gloss Gray finish only. "DieLux"® Diecast Faceplate with steel recessed housing standard. All cast construction and Back Mount Surface models available on special order.



AL-1

Cat. No.	Housing	Faceplate	Each
AL-1	Screw Frame Units 4 7/8" x 7 3/4" x 3 1/2"	5 1/4" x 8 1/2"	\$ 6.47
AL-4	Hinged Inner Frame Units 4 7/8" x 7 3/4" x 3 1/2"	6" x 9 3/4"	7.83
AL-5	(2 convenience outlets) 4 7/8" x 7 3/4" x 3 1/2"	6" x 9 3/4"	9.20
AL-6	(one outlet, one switch) 4 7/8" x 7 3/4" x 3 1/2"	6" x 9 3/4"	9.20

PRESCOLITE LIGHTING FIXTURES



C-50



P-50



ST-50



No. R-50



No. S-50



W-50

PRESCOLITE EXIT LIGHTS

— All "DieLux"® Diecast aluminum, Incandescent (2-25W) Units Standard. Also available: Fluorescent Units for two F6-T5 lamps (16W). All models employ 6" high letters with 3/4" width stroke, unbreakable lens panels, hinged frames. Metal stencils are now diecast in inner frame which eliminates the need of wireguard. Special lettering in place of word EXIT available at a nominal charge.

Mounting	Green Letters Metal Stencil Backgr'nd	Red Letters Metal Stencil Backgr'nd	White Letters On Green Lens Panel	White Letters On Red Lens Panel	Green Letters On White Lens Panel	Red Letters On White Lens Panel	Each
Recessed	R-50	R-51	R-52	R-53	R-54	R-55	\$ 9.20
Back Mount	S-50	S-51	S-52	S-53	S-54	S-55	10.27
Ceiling (single face)	C-50	C-51	C-52	C-53	C-54	C-55	10.66
Ceiling (twin face)	CT-50	CT-51	CT-52	CT-53	CT-54	CT-55	14.69
End (single face)	W-50	W-51	W-52	W-53	W-54	W-55	10.66
End (twin face)	WT-50	WT-51	WT-52	WT-53	WT-54	WT-55	14.69
Pendant (single face)	P-50	P-51	P-52	P-53	P-54	P-55	13.36
Pendant (twin face)	PT-50	PT-51	PT-52	PT-53	PT-54	PT-55	17.39
Wall (twin face)	ST-50	ST-51	ST-52	ST-53	ST-54	ST-55	19.01

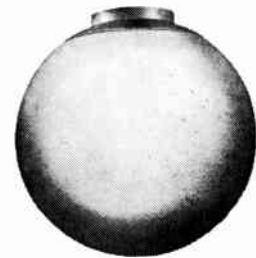
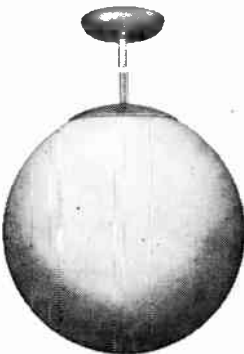
For Arrow left — Specify "L"
 Arrow right — Specify "R"
 Double Arrow — Specify "D"
 Arrow left, Arrow right (twin face units) — Specify "LR"
 Add \$0.65 per frame for arrows.

FINISHES: Matte Oyster baked enamel is standard. Brushed Aluminum also available for slight additional cost.

PRESCOLITE OPAL SPHERES

Matte White Standard Finish.

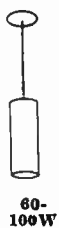
Hand-blown Thermopal Glass, hang-straight pendant assembly. For use with 3 1/4" or 4" O.B.



Globe Diam. In.	Wattage		Pendant Cat. No.	Pendant Lgth. In.	Pendant Each	Ceiling	
	Range	Recommended				Cat. No.	Each
10	60-200W	100W	540	30 1/2	\$ 9.52	560	\$ 7.48
12	60-300W	200W	542	32 1/2	11.54	562	9.49
14	60-300W	200W	544	34 1/2	15.57	564	13.52
16	60-300W	200W	546	36 1/2	18.30	566	16.25
18	60-300W	300W	548	38 1/2	28.70	-----	-----
20	60-300W	300W	550	40 1/2	41.70	-----	-----

PRESCOLITE HOLIDAY PENDANTS

Colored Holiday Pendants can be used singly or in multiples of from 2 to 8 units from a single canopy when employing available spreaders and hangers.



60-100W

A-101-O \$10.40
 Large glass cylinder in Flame, Smoke Gray, Blue, Green or Matte White. 4 3/4" dia. x 12 5/8" high. Overall suspension 54" max. Matte White canopy is standard.



60-100W

A-101-U \$15.28
 "Handblown" glass in Flame, Smoke Gray, Blue, Matte White, Ruby or Green. 9" dia. x 12 1/4" high. Overall suspension 52" max. Matte White canopy is standard.



100W

A-101-E \$14.95
 Metal, White finished outer shade. Brushed Brass or Copper inner shade. Also Matte Black outer shade w/ Brushed Nickel. 7 3/4" dia. x 8 3/4" high. 50" overall suspension. A-101-E with 3-tone Green or Brown finish **\$13.00**



60-100W

A-101-B \$12.35
 Metal shade in Red, Green, Gunmetal or Matte Black. 7 1/2" sq. x 9 1/2" high. Overall suspension 52" max.



100W

A-101-K \$11.05
 White Satin opal inner glass. Perforated metal shade in Brushed Nickel, Brass or Copper. 9" dia. x 13 1/4" high. Overall suspension 50 1/2" max. A-101-K in Gunmetal or Matte Black. **\$9.75**



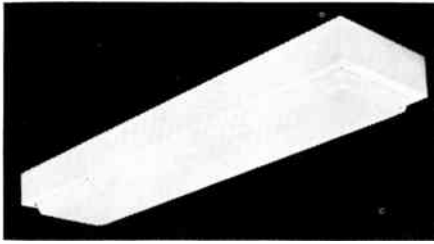
60-100W

A-101-Y \$13.33
 White Satin opal inner glass. Outer glass in Flame, Amber, Blue, Clear Cracked Crystal, Clear Smoke, or Ruby. 8 3/4" dia. x 13" high. O.A. suspension 52" max.

Maximum suspension shown. Cords easily shortened, longer cords available. Diecast canopies designed for 3 1/4" or 4" outlet box mountings.

SILVRAY-LITECRAFT LIGHTING FIXTURES

S9 SERIES SURFACE MOUNTED FLUORESCENT FIXTURES



A fluorescent, surface mounted fixture which can be used individually, in patterns or in rows. Constructed of heavy gauge steel. Door hinges from either side. Foam gaskets protect against light leakage and dust penetration. All parts sprayed with Perma-white enamel and baked to assure permanence and durability. Depth, 3 3/8" except Dished Acrylic fixtures which are 5 1/8".

Cat. No.	Lamps	Ballast	Dim. In.		Each
			W	L	
Holophane Controlens* 6150-6250					
S9212-240	2 F40T12	RS/HP	12	48	\$39.80
S9212-240-8T	4 F40T12	RS/HP	12	96	79.50
S9214-420	4 F20T12	TS/LP	24	24	49.85
S9214-440	4 F40T12	RS/HP	24	48	72.80
S9218-640	6 F40T12	RS/HP	48	48	154.50
S9218-840	8 F40T12	RS/HP	48	48	162.80

Holophane Controlens* 6011-6025					
S9222-240	2 F40T12	RS/HP	12	48	44.65
S9222-240-8T	4 F40T12	RS/HP	12	96	89.30
S9224-420	4 F20T12	TS/LP	24	24	52.85
S9224-440	4 F40T12	RS/HP	24	48	81.00

1/2" Cubed Plastic Louvercomb					
S9282-240	2 F40T12	RS/HP	12	48	29.30
S9282-240-8T	4 F40T12	RS/HP	12	96	58.50
S9284-420	4 F20T12	TS/LP	24	24	40.15
S9284-440	4 F40T12	RS/HP	24	48	52.15
S9288-640	6 F40T12	RS/HP	48	48	97.50
S9288-840	8 F40T12	RS/HP	48	48	105.80

Dished Acrylic in Hinged Frame					
S9412-240	2 F40T12	RS/HP	12	48	36.35
S9412-240-8T	4 F40T12	RS/HP	12	96	72.00
S9414-420	4 F20T12	TS/LP	24	24	45.35
S9414-440	4 F40T12	RS/HP	24	48	65.30
S9418-640	6 F40T12	RS/HP	48	48	117.70
S9418-840	8 F40T12	RS/HP	48	48	126.00

Snap-In Dished Acrylic					
S9452-240	2 F40T12	RS/HP	12	48	33.35
S9452-240-8T	4 F40T12	RS/HP	12	96	66.80
S9454-420	4 F20T12	TS/LP	24	24	42.35
S9454-440	4 F40T12	RS/HP	24	48	61.50
S9458-640	6 F40T12	RS/HP	48	48	112.50
S9458-840	8 F40T12	RS/HP	48	48	120.80

Corning 70 Prismatic Lens					
S9702-240	2 F40T12	RS/HP	12	48	36.35
S9702-240-8T	4 F40T12	RS/HP	12	96	72.80
S9704-420	4 F20T12	TS/LP	24	24	45.35
S9704-440	4 F40T12	RS/HP	24	48	65.30

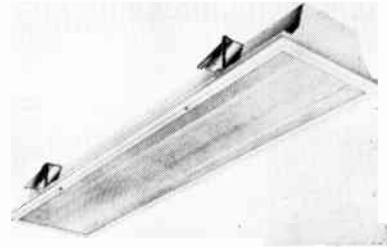
Prismatex Lens					
S9912-240	2 F40T12	RS/HP	12	48	28.50
S9912-240-8T	4 F40T12	RS/HP	12	96	57.00
S9914-420	4 F20T12	TS/LP	24	24	39.35
S9914-440	4 F40T12	RS/HP	24	48	50.65
S9918-640	6 F40T12	RS/HP	48	48	96.00
S9918-840	8 F40T12	RS/HP	48	48	104.30

*©Holophane Co., Inc.

Other shielding media also available. Prices and complete information on request.

IMPERIALE SERIES TROFFERS

U.L. Approved



Imperiale with Prismatex Diffuser

Imperiale offers quality troffer lighting for any interior with its perfectly level envelope door, extra gasketing protection, steel bonderized after fabrication, stainless steel hinges, a wide range of lens and diffusers. Recessed depth only 4 3/8".

Ceiling Types

To order the proper fixture for a particular ceiling type, insert the letter that designates that ceiling type in the space left blank in the catalog number. (Example RE121-240).

- Type A — Exposed grid, Inverted T
- Type E* — Concealed Mechanical Expansion
- Type F* — Metal Pan, Snap-In T
- Type G* — Plaster Ceiling

*Yokes available making recess depth 5 3/8".

Holophane Controlens 6150 & 6250

Cat. No.	Lamps	Ballast	—Dimens., In.—		Each
			W	L	
For Ceiling Type A					
RA121-240	2F40T12	RS/HP	12	48	\$35.70
RA121-340	3F40T12	RS/HP	12	48	43.20
RA221-320HP	3F20T12	TS/LP	24	24	55.95
RA221-420HP	4F20T12	TS/LP	24	24	57.45
RA221-440	4F40T12	RS/HP	24	48	63.40

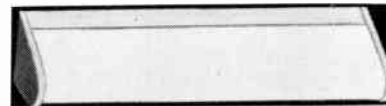
Insert Letter for Ceiling Type E, F or G**

R121-220	2F20T12	TS/LP	12	24	41.95
R121-240	2F40T12	RS/HP	12	48	38.10
R121-340	3F40T12	RS/HP	12	48	45.60
R121-240-8T*	4F40T12	RS/HP	12	96	72.90
R121-340-8T*	6F40T12	RS/HP	12	96	80.40
R221-320HP	3F20T12	TS/LP	24	24	58.40
R221-420HP	4F20T12	TS/LP	24	24	59.85
R221-440	4F40T12	RS/HP	24	48	65.80

*8 foot housing.
**Troffers for ceiling types E and G are supplied with two flanged ends for individual mounting. For continuous rows, specify the length of each row and the correct intermediate ends will be automatically supplied.

Troffers for ceiling types E, F and G are supplied with Wing-Lok mounting devices, no yokes required. Plaster frames are recommended for ceiling Type G.

S84 SERIES CORRIDOR LIGHTING FLUORESCENT FIXTURES

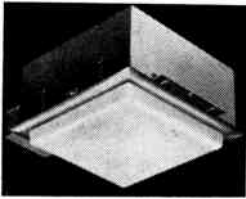


Continuous lines of attractive fluorescent lighting. Lamps are shielded by white translucent plastic diffusers. Highly reflective white finished housing. Round corner casting also available to allow continuous wiring around corners. 5 1/8 inches deep by 5 3/8 inches wide.

Cat. No.	Lamps	Ballasts	Length Inches	Each
S84961-120	1 F20T12	TS/LP	24 3/8	\$10.80
S84961-140 HP	1 F40T12	RS/HP	48 3/8	16.40
S84961-140 LP	1 F40T12	RS/LP	48 3/8	13.15
S84961-140-8T	2 F40T12	RS/HP	97 3/8	23.15
S84962	Cast corner bracket with White Enamel finish			5.65

SILVRAY-LITECRAFT LIGHTING FIXTURES

UNIVERSAL SQUARE DOWNLIGHTS



A basic housing designed to accept any of several combinations of face frames and shielding elements. Reflectors are Alzak aluminum. Aluminum frames are anodized, steel are bonderized. Fiberglas gasket prevents light leaks and dust streaks.

Pre-wired, 16-gauge steel die-formed junction box. Also available un-wired. Ever-Tite spring hinges allow quick, easy maintenance without tools.

Housings

Cat. No.		Lamp Watts	Dimens., In.		Each
Pre-Wired	Un-Wired		Housing Square	Recess Depth	
E521	E541	100	8½	4½	\$ 6.50
E522	E542	150/200	11¾	5½	8.00
E523	E543	300	12½	6½	11.75

Note: Prices shown are for pre-wired fixtures with Opal shielding and white frames. Prices for unwired fixtures are slightly lower.

Cat. No.	Shielding	Each
Opal Shielding		
E25	for use with E521 & E541	\$1.50
E26	for use with E522 & E542	2.45
E27	for use with E523 & E543	4.15
Albatex Shielding		
E35	for use with E521 & E541	.80
E36	for use with E522 & E542	1.25
E37	for use with E523 & E543	2.30
Fresnel Shielding		
E45	for use with E521 & E541	2.05
E46	for use with E522 & E542	3.00
E47	for use with E523 & E543	4.85

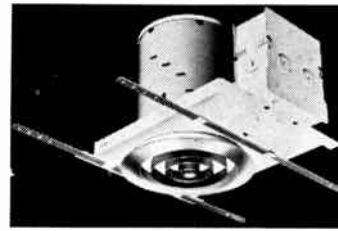
Housing Frames

Cat. No.	Finish	Each
For Use With E521 & E541 Housings		
E1W	White	\$1.25
E1PC	Chrome	1.80
E1PB	Brass	1.80
E1AA	Anodized Alum.	1.70
For Use With E522 & E542 Housings		
E2W	White	1.45
E1PC	Chrome	2.10
E2PB	Brass	2.10
E2AA	Anodized Alum.	2.00
For Use With E523 & E543 Housings		
E3W	White	1.75
E3PC	Chrome	2.95
E3PB	Brass	2.95
E3AA	Anodized Alum.	2.60
E3AG	Anodized Gold	3.20

Mounting Accessories

Cat. No.	Description	Each
F531	18" mounting bars. One pair required per fixture	\$0.30/pair
E532	Kwik-Mount clips. Set of four required per fixture	.30/set

UNIVERSAL ROUND DOWNLIGHTS



Housing accepts 19 different ceiling trims. Built-in reflector adjustable to four lamp positions. Extra thick fiberglas gaskets compress to assure positive seal against light leakage and dust streaks. Finishes: housing and reflector, baked white enamel; ceiling trim, see table; louvers, optical matte black.

Housings — On Mounting Plates

Cat. No.	Description	Dimens., In.		Each
		Housing Dia.	Recess Depth	
F6	Prewired w/intg. bars	6	8	\$5.55
F7	Wired w/4½' leads	6	8	4.25

Housings adjustable to accept up to 150W lamp.

Ceiling Trims

Cat. No.	Description	Dia., In.	Lamps	Each
Louvered Trims				
F81	Perf. Alum. (5 Ring)	7½	150W-R40	\$5.45
F83	Perf. Alum. (4 Ring)	8	150W-R40	6.15
F85	Conical Aluminum	7½	150W-R40	5.60
F87	Heavy Ga. Alum.	7½	150W-R40	3.55
F89	Heavy Ga. Alum.	7½	75W-R30	3.45

Open Trims

Cat. No.	Description	Dia., In.	Lamps	Each
F82	Perf. Alum. (5 Ring)	7½	150W-R40	4.10
F84	Perf. Alum. (4 Ring)	8	150W-R40	4.95
F86	Conical Aluminum	7½	150W-R40	4.30
F88	Heavy Ga. Alum.	7½	150W-R40	2.35
F90	Heavy Ga. Alum.	7½	75W-R30	2.35

Standard Finishes: Matte White (W), Satin Aluminum (SA), Polished Aluminum (PA), Polished Brass (PB), Anodized Aluminum (AA), Polished Chrome (PC).

Glass Enclosed Ceiling Trims

Cat. No.	Description	Dia., In.	Lamps	Each
F95	Dished Opal	7½	100W-A19	\$4.20
F97	Fresnel Lens	7½	100W-A19	4.00
F98	Regressed Fresnel	7½	100W-A19	6.70
F99	White Albatex	7½	100W-A19	3.70

Special Ceiling Trims

Cat. No.	Description	Dia., In.	Lamps	Each
F91	Black Alzak	7½	75W-R30	\$5.70
F92	Specular Alzak	7½	75W-A19	8.00
F93	Shielded Aperture	7½	75W-R30	4.00
F94	Pinhole	7½	75W-R30	2.95

Standard Finishes: Matte White (W), Satin Aluminum (SA), Polished Aluminum (PA), Polished Brass (PB), Anodized Aluminum (AA), Polished Chrome (PC).

SILVRAY-LITECRAFT LIGHTING FIXTURES

ROUND FUNCTIONAL UNITS



6010

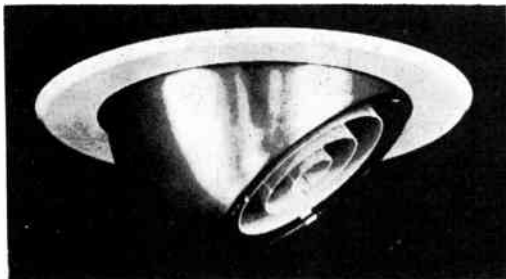


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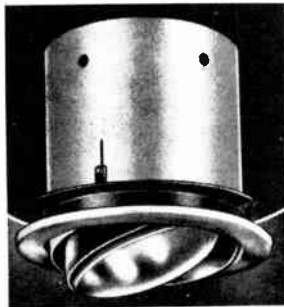
Heavy gauge aluminum housing. Ceiling trim (face plate) in satin aluminum. 660W, 250V heavy duty porcelain socket. Wired with 4½ ft., 14 gauge AF leads. Individually boxed. Plaster Ring extra.

Cat. No.	Lamp Size	Size, Inches				Each
		Housing Dia.	Recess Depth	Plaster Ring	Face Plate	
Open Type						
F6010	R30- 75W	4¼	5¼	4½	5½	\$3.50
F6007	R40-150W	5¾	6¼	6½	7	3.50
With Concentric Louver						
F6008	R40-150W	5¾	8½	6½	7	5.00
F6011	R30- 75W	4¼	7½	4½	5½	5.00

ADJUST-O-SPOT RECESSED ADJUSTABLE UNITS



G512 (H699 Louver Extra — User Price Each \$1.45)



G502

Horizontal rotation, 360°—vertical tilt, 27°.

Thoroughly ventilated for extra cool operation. 660W, 250V heavy duty porcelain socket. Completely wired with 4½" of 14 gauge slow-burning asbestos wire. Sturdy, heavy gauge aluminum construction. Standard finish is satin brushed aluminum. Satin bronze, satin brass, satin copper at small added cost. Plaster Rings are extra.

Cat. No.	Lamp Size	Size, Inches		Each
		Housing Dia.	Recess Depth	
G512	150W PAR 38 or R40	8	5¼	\$18.50
G502	150W PAR 38 or R40	5¾	6¼	11.95

HI-LITES



H602



H603



H604

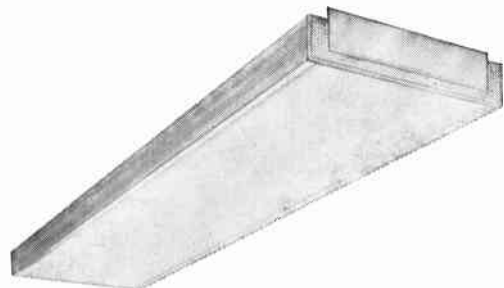
Wall and ceiling units for permanent or pin-up installation. Featuring the Gyromatic Swivel, they are wonderfully flexible. Single pole or two circuit switches available to order. Reflector size: 9" x 5¾". Lamp size: 150W R40/PAR 38 or 150W "A".

Available in the following satin finishes: Aluminum, brass, bronze, copper and in the following colors: Hunter green, flame, oyster white, char-treuse, terra cotta, matte white, cerulean blue, matte black, dusk gray, citron, mustard, sandal-wood, and silvertone.

Satin Aluminum Prices Only:

Cat. No.	Description	Each
H602A	Ceiling Mount	\$6.45
H603A	Ceiling or Wall Mount.....	6.45
H604A	Ceiling Mount	5.40
H607A	Double Ceiling Mount.....	11.95

TIEMPO SURFACE-MOUNTED FLUORESCENT FIXTURES



Tiempo is extremely shallow—2½" deep and 12" or 18" wide—perfect for today's low ceilinged spaces. Optically engineered to provide a comfortable lighting environment at higher foot candle levels. Its precision made injection molded and extruded acrylic or styrene lenses direct low brightness light downward through finely spaced prisms. In addition, the sides send illumination to the adjacent ceiling, reducing harsh brightness contrast.

The crystal clear lens swings down for relamping from either side without the use of tools. Safety stops prevent accidental dislodging of the lens when hinged. Has snap-in ballast cover.

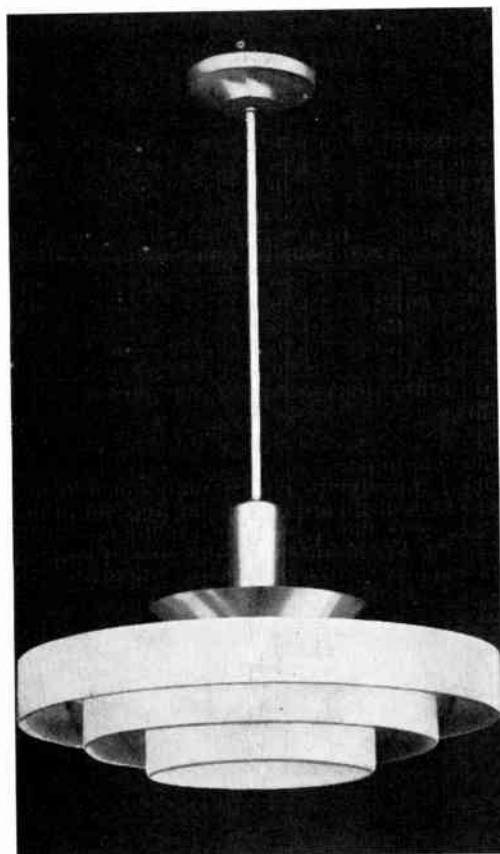
Cat. No.	Lamps	Dimens., In.		Each
		W	L	
Styrene Lens				
S1-240	2-F40T12/RS	12	48¾	\$18.75
S1-240-8T*	4-F40T12/RS	12	96¾	36.70
S1-440	4-F40T12/RS	18	48¾	33.00
Acrylic Lens				
S2-240	2-F40T12/RS	12	48¾	23.25
S2-240-8T*	4-F40T12/RS	12	96¾	45.65
S2-440	4-F40T12/RS	18	48¾	40.50

*Tandem.

SILVRAY-LITECRAFT LIGHTING FIXTURES

DELUXE SERIES CONCENTRIC LOUVER UNITS

For Silver Bowl Lamps



For schools, offices, public buildings, superb engineering yields a 90.5% ETL-Proved efficiency, with low brightness readings to satisfy the most rigid specifications. Finishes are permanent, heat resisting — twice sprayed, and twice infrared baked.

Heavy-gauge louver rings are seamlessly butt-welded, and from non-twist Hanger down to Stem-Lok Socket Cap, each fixture is completely Lock-tite, cannot twist or turn. The Stem-Lok Socket Cap saves installation time; permits simple on-location stem shortening — no need for threading or special tools.

Earthquake-proof Swivel Aligner guarantees plumb suspension from ceilings sloped up to 45°, and lamp alignment is insured by the sturdy extruded aluminum husk, ventilated for added cooling effectiveness.

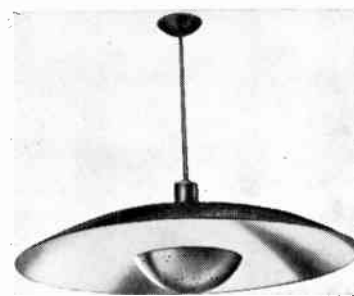
Underwriters' Laboratories approved. 1500W/660V mogul porcelain socket. Union wired (IBEW-AFL). Additional stem lengths, when required, available to order.

Cat. No.	Description	Lamp	Length Inches	Dia. In	Each
A103	Close-up	200W	12	19	\$ 9.65
A104	Pendant	200W	30	19	10.20
A105	Close-up	300/500W	14	19	9.85
A106	Pendant	300/500W	30	19	10.40

Additional stem length for Pendant Unit available at \$0.60 user cost per foot.

Collar available for surface mounted outlet boxes at slight additional cost.

DOMELITES

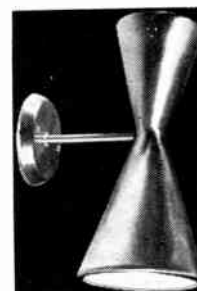


A functional as well as a decorative lighting fixture. Domelites provide their own reflecting surface without regard to ceiling surface or color condition. Finish: top of dome, Dusk Gray; balance of fixture, Satin Aluminum. Other finishes to order.

Cat. No.	Lamp	Length Inches	Dia. In.	Each
B150/20	1-150W	36	20	\$ 18.05
B150/24	1-200W	36	24	24.80
B150/36	1-300W	36	36	36.95
B150/48	1-300/500W	48	48	69.00
B150/60	1-750/1000W	48	60	111.80
B150/72	1-750/1000W	48	72	151.40

TWINLITES

The modern hour-glass shape of the heavy gauge spun aluminum reflectors provide both direct and indirect lighting. Each Twinlite uses a 150W-PAR 38, R40 or inside frosted lamp in large cone and a 75W-R30 or 100W inside frosted lamp in small cone.



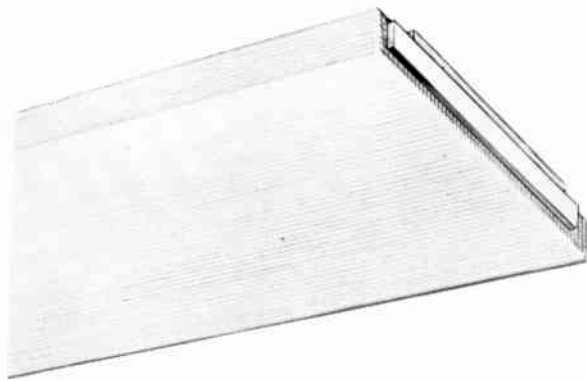
Cat. No.	Description	Length Inches	Each
C641	1 Twinlite—wall	14	\$15.90
C642	2 Twinlites—wall	14	33.00
C642/2	2 Twinlites—ceiling	36	34.05
C642/3	3 Twinlites—ceiling	36	56.70
C642/4	4 Twinlites—ceiling	36	77.95

OPALUME SERIES



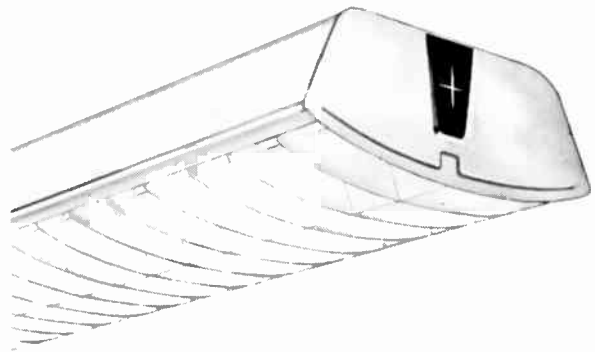
Surface mounted ceiling fixture. Hand blown opal glass. Hidden hinge lets diffuser down for easy re-lamping. Glass is removable without tools. Heavy gauge anodized aluminum ceiling pan.

Cat. No.	Lamps	Diffuser Diameter	Depth	Each
D404	1-75W	8"	4 3/4"	\$ 6.95
D405	2-75W	10"	4 3/4"	7.85
D406	2-100W	12"	5 3/4"	10.10
D407	3-100W	14"	5 3/4"	13.95

SMITHCRAFT LIGHTING FIXTURES**DOMINAIRE SERIES DMA & DMP**

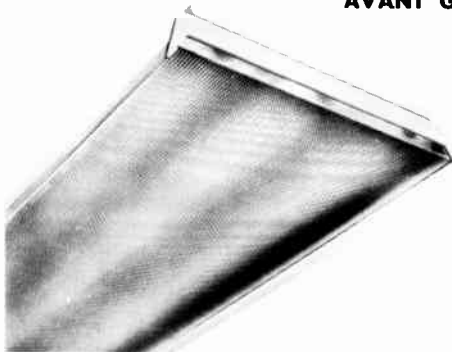
A new shallowness in lighting fixtures. Apparent depth of only 1½" simulates a panel lamp or recessed fixture without visible attachments. When used in rows, free-flowing uninterrupted lines of light are obtained. The uniform low brightness of the acrylic or styrene lens provides shadowless, non-glaring illumination for offices, schools and stores. The Dominaire is also an excellent lighting panel for residential applications in kitchens and family rooms.

Cat. No.	Lens	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Lamp Units — 5¼" Wide					
DMA1-40	Acrylic	1-40RS	4	20	\$21.95
DMA1-42	Acrylic	2-40RS	8	36	34.45
DMP1-40	Styrene	1-40RS	4	20	17.75
DMP1-42	Styrene	2-40RS	8	36	25.95
2-Lamp Units — 10½" Wide					
DMA2-40	Acrylic	2-40RS	4	20	25.50
DMA2-42	Acrylic	4-40RS	8	36	48.45
DMP2-40	Styrene	2-40RS	4	20	19.65
DMP2-42	Styrene	4-40RS	8	36	39.00
2-Lamp Units — 19" Wide					
DMA192-40	Acrylic	2-40RS	4	30	41.00
DMP192-40	Styrene	2-40RS	4	30	30.80
4-Lamp Units — 19" Wide					
DMA4-40	Acrylic	4-40RS	4	35	48.45
DMP4-40	Styrene	4-40RS	4	35	38.15

FEDERAL SERIES FES

A top-value, low-cost sturdy unit for a very long-term use in schools, stores and offices . . . whenever good-looking, efficient, economical lighting is required. A smart-looking unit that has extremely clean lines with medallions providing interesting accents at the ends of unit.

Cat. No.	Shielding	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
2-Lamp Units — Open Top — Steel Sides					
FES2-40	35x25	2-40RS	4	22	\$16.80
FES2-42	35x25	4-40RS	8	43	33.65
FES2-96	35x25	2-96SL	8	42	31.15
FES2-40X	35x45	2-40RS	4	25	19.30
FES2-42X	35x45	4-40RS	8	48	38.65
FES2-96X	35x45	2-96SL	8	47	36.00
FES2-40DL	45x45	2-40RS	4	27	21.00
FES2-42DL	45x45	4-40RS	8	52	41.90
FES2-96DL	45x45	2-96SL	8	51	39.30
2-Lamp Units — Top Reflectors — Steel Sides					
FES2-40TR	35x25	2-40RS	4	26	19.75
FES2-42TR	35x25	4-40RS	8	50	39.60
FES2-96TR	35x25	2-96SL	8	49	37.05
FES2-40XTR	35x45	2-40RS	4	29	22.25
FES2-42XTR	35x45	4-40RS	8	56	44.60
FES2-96XTR	35x45	2-96SL	8	55	41.95
FES2-40DLTR	45x45	2-40RS	4	31	23.95
FES2-42DLTR	45x45	4-40RS	8	60	47.80
FES2-96DLTR	45x45	2-96SL	8	59	45.25
4-Lamp Unit — Open Top — Steel Sides					
FES4-40	40x45	4-40RS	4	37	34.45
4-Lamp Unit — Closed Top — Steel Sides					
FES4-40TR	40x45	4-40RS	4	39	37.45

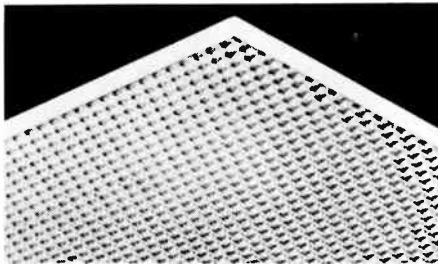
AVANT GARDE SERIES AGA & AGP

A shallow semi-direct lensed fixture with an extremely well controlled light distribution. The linear and rectangular prisms direct and control the light to produce a high degree of visual comfort. The lens has a rich textured low-bright sparkle that produces an atmosphere of visual pleasantness.

Cat. No.	Lens	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
2-Lamp Units — Individually Mounted					
AGA2-40	Acrylic	2-40RS	4	21	\$30.95
AGA2-42	Acrylic	4-40RS	8	37	60.65
AGP2-40	Styrene	2-40RS	4	21	24.65
AGP2-42	Styrene	4-40RS	8	37	48.00
4-Lamp Units — Individually Mounted					
AGA4-40	Acrylic	4-40RS	4	36	55.65
AGP4-40	Styrene	4-40RS	4	36	44.40
2-Lamp Units — Continuous Rows (No End Trim)					
AGA2-40C	Acrylic	2-40RS	4	20	29.70
AGA2-42C	Acrylic	4-40RS	8	36	59.40
AGP2-40C	Styrene	2-40RS	4	20	23.40
AGP2-42C	Styrene	4-40RS	8	36	46.75
4-Lamp Units — Continuous Rows (No End Trim)					
AGA4-40C	Acrylic	4-40RS	4	35	54.40
AGP4-40C	Styrene	4-40RS	4	35	43.15

SMITHCRAFT LIGHTING FIXTURES

FRAMED TROFFERS SERIES PP

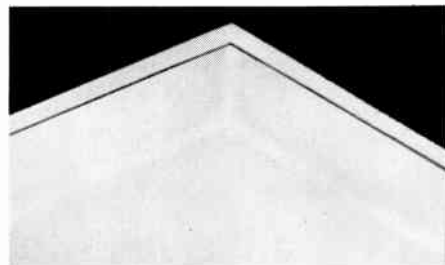


Fastest installing troffer, effecting substantial savings in hours and dollars for electrical contractors. Maintenance costs for owners are also greatly reduced because of the simplicity and ease of maintenance. These troffers go far beyond any recessed lighting previously available in improvements and refinements; literally in a class by itself.

POLYSTYRENE PRISMATIC LENS

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide — Type F (Flanged)				
1FPP2-40	2-40RS	4	31	\$28.95
1FPP2-42	4-40RS	8	61	54.15
1FPP3-40	3-40RS	4	36	37.15
1FPP3-42	6-40RS	8	66	62.40
2-Foot Wide — Type F (Flanged)				
2FPP2-20	2-20TS	2	27	39.65
2FPP3-20	3-20TS	2	30	48.40
2FPP4-20	4-20TS	2	31	48.15
2FPP2-40	2-40RS	4	41	37.45
2FPP3-40	3-40RS	4	45	45.65
2FPP4-40	4-40RS	4	46	45.65
4-Foot Wide (Two 2x4 Lens With Center Mullion)				
4FPP6-40	6-40RS	4	84	110.20
4FPP8-40	8-40RS	4	89	118.40
1-Foot Wide — Type M (Metal Pan)				
1MPP2-40	2-40RS	4	28	27.55
1MPP2-42	2-42RS	8	55	52.80
1MPP3-40	3-40RS	4	33	35.80
1MPP3-42	6-40RS	8	60	61.00
2-Foot Wide — Type M (Metal Pan)				
2MPP2-20	2-20TS	2	25	38.15
2MPP3-20	3-20TS	2	28	47.05
2MPP4-20	4-20TS	2	29	46.80
2MPP2-40	2-40RS	4	38	36.15
2MPP3-40	3-40RS	4	42	44.30
2MPP4-40	4-40RS	4	43	44.30
4-Foot Wide (Two 2x4 Lens With Center Mullion)				
4MPP6-40	6-40RS	4	81	108.50
4MPP8-40	8-40RS	4	86	116.75
1-Foot Wide — Type G (Inverted T Bar)				
1GPP2-40	2-40RS	4	27	26.25
1GPP3-40	3-40RS	4	32	34.50
2-Foot Wide — Type G (Inverted T Bar)				
2GPP2-20	2-20TS	2	24	36.80
2GPP3-20	3-20TS	2	27	45.70
2GPP4-20	4-20TS	2	28	45.50
2GPP2-40	2-40RS	4	37	34.75
2GPP3-40	3-40RS	4	41	43.00
2GPP4-40	4-40RS	4	42	43.00
4-Foot Wide (Two 2x4 Lens With Center Mullion)				
4GPP6-40	6-40RS	4	79	102.00
4GPP8-40	8-40RS	4	84	110.20
1-Foot Wide — Type PF (Plaster Frame)				
1PFPP2-40	2-40RS	4	34	33.80
1PFPP2-42	4-40RS	8	67	62.75
1PFPP3-40	3-40RS	4	39	42.05
1PFPP3-42	6-40RS	8	72	70.95
2-Foot Wide — Type PF (Plaster Frame)				
2PFPP2-20	2-20TS	2	29	43.95
2PFPP3-20	3-20TS	2	32	52.70
2PFPP4-20	4-20TS	2	33	52.50
2PFPP2-40	2-40RS	4	44	43.20
2PFPP3-40	3-40RS	4	48	51.25
2PFPP4-40	4-40RS	4	49	51.25
4-Foot Wide (Two 2x4 Lens With Center Mullion)				
4PFPP6-40	6-40RS	4	88	118.05
4PFPP8-40	8-40RS	4	93	126.25

FRAMED TROFFERS SERIES AD

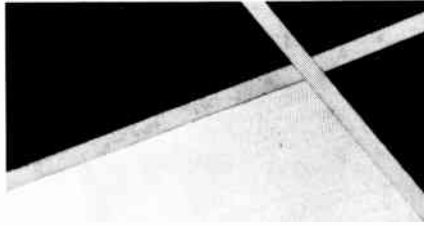


ACRYLIC DISH

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide — Type F (Flanged)				
1FAD2-40	2-40RS	4	31	\$38.40
1FAD2-42	4-40RS	8	61	73.20
1FAD3-40	3-40RS	4	36	46.55
1FAD3-42	6-40RS	8	66	81.45
2-Foot Wide — Type F (Flanged)				
2FAD2-20	2-20TS	2	27	49.00
2FAD3-20	3-20TS	2	30	57.90
2FAD4-20	4-20TS	2	31	57.70
2FAD2-40	2-40RS	4	41	56.80
2FAD3-40	3-40RS	4	45	65.00
2FAD4-40	4-40RS	4	46	65.00
4-Foot Wide — Type F (Flanged)				
4FAD6-40	6-40RS	4	87	136.20
4FAD8-40	8-40RS	4	92	144.40
1-Foot Wide — Type M (Metal Pan)				
1MAD2-40	2-40RS	4	28	37.15
1MAD2-42	4-40RS	8	55	71.90
1MAD3-40	3-40RS	4	33	45.30
1MAD3-42	6-40RS	8	60	80.05
2-Foot Wide — Type M (Metal Pan)				
2MAD2-20	2-20TS	2	25	47.70
2MAD3-20	3-20TS	2	28	56.55
2MAD4-20	4-20TS	2	29	56.30
2MAD2-40	2-40RS	4	38	55.50
2MAD3-40	3-40RS	4	42	63.70
2MAD4-40	4-40RS	4	43	63.70
4-Foot Wide — Type M (Metal Pan)				
4MAD6-40	6-40RS	4	86	134.55
4MAD8-40	8-40RS	4	91	142.75
1-Foot Wide — Type G (Inverted T Bar)				
1GAD2-40	2-40RS	4	27	35.80
1GAD3-40	3-40RS	4	32	44.00
2-Foot Wide — Type G (Inverted T Bar)				
2GAD2-20	2-20TS	2	24	46.30
2GAD3-20	3-20TS	2	27	55.25
2GAD4-20	4-20TS	2	28	55.00
2GAD2-40	2-40RS	4	37	54.15
2GAD3-40	3-40RS	4	41	62.40
2GAD4-40	4-40RS	4	42	62.40
4-Foot Wide — Type G (Inverted T Bar)				
4GAD6-40	6-40RS	4	84	128.00
4GAD8-40	8-40RS	4	89	136.20
1-Foot Wide — Type PF (Plaster Frame)				
1PFAD2-40	2-40RS	4	34	43.30
1PFAD2-42	4-40RS	8	67	81.80
1PFAD3-40	3-40RS	4	39	51.50
1PFAD3-42	6-40RS	8	72	90.00
2-Foot Wide — Type PF (Plaster Frame)				
2PFAD2-20	2-20TS	2	29	53.30
2PFAD3-20	3-20TS	2	32	62.20
2PFAD4-20	4-20TS	2	33	61.95
2PFAD2-40	2-40RS	4	44	62.45
2PFAD3-40	3-40RS	4	48	70.65
2PFAD4-40	4-40RS	4	49	70.65
4-Foot Wide — Type PF (Plaster Frame)				
4PFAD6-40	6-40RS	4	86	144.05
4PFAD8-40	8-40RS	4	91	152.25

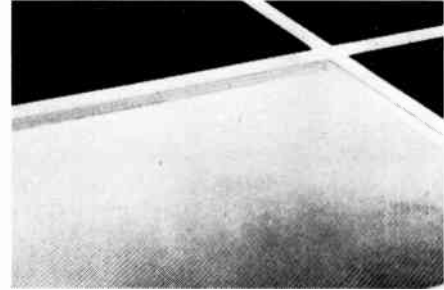
SMITHCRAFT LIGHTING FIXTURES

FRAMELESS TROFFERS SERIES LP



A larger expanse of clean, uninterrupted illuminated area surrounded by a minimum of metal trim for virtually all ceilings. By eliminating the shielding door frame, these troffers provide 11" x 47" (or 23" x 47") of recessed lighting free from hardware or the possibility of light leaks. In inverted tee grid systems, the illuminated shielding is surrounded only by the exposed members of the ceiling itself. In other type ceilings, only a single, narrow band of metal outlines the fixture in the ceiling. Diffusers are self-hinging and access to the interior of the unit is simple and trouble-free.

FRAMELESS TROFFERS SERIES RP



A larger expanse of clean, uninterrupted illuminated area surrounded by a minimum of metal trim for virtually all ceilings. By eliminating the shielding door frame, these troffers provide 11" x 47" (or 23" x 47") of recessed lighting free from hardware or the possibility of light leaks. In inverted tee grid systems, the illuminated shielding is surrounded only by the exposed members of the ceiling itself. In other type ceilings, only a single, narrow band of metal outlines the fixture in the ceiling. Diffusers are self-hinging and access to the interior of the unit is simple and trouble-free.

LINEAR POLYSTYRENE LENS

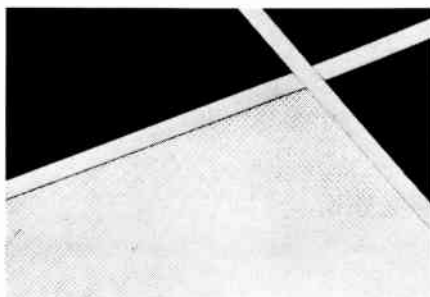
Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide — Type F (Flanged)				
TF1FLP2-40	2-40RS	4	29	\$30.95
TF1FLP2-42	4-40RS	8	57	58.05
TF1FLP3-40	3-40RS	4	34	39.05
TF1FLP3-42	6-40RS	8	62	66.25
2-Foot Wide — Type F (Flanged)				
TF2FLP2-20	2-20TS	2	26	40.80
TF2FLP3-20	3-20TS	2	29	49.70
TF2FLP4-20	4-20TS	2	30	49.50
TF2FLP2-40	2-40RS	4	38	38.75
TF2FLP3-40	3-40RS	4	42	47.00
TF2FLP4-40	4-40RS	4	43	47.00
TF2FLP6-40	6-40RS	4	48	55.20
1-Foot Wide — Type PF (Plaster Frame)				
TF1PFLP2-40	2-40RS	4	33	35.80
TF1PFLP2-42	4-40RS	8	65	66.25
TF1PFLP3-40	3-40RS	4	38	44.00
TF1PFLP3-42	6-40RS	8	70	74.50
2-Foot Wide — Type PF (Plaster Frame)				
TF2PFLP2-20	2-20TS	2	30	45.00
TF2PFLP2-40	2-40RS	4	44	44.95
TF2PFLP3-20	3-20TS	2	33	53.95
TF2PFLP3-40	3-40RS	4	48	53.15
TF2PFLP4-20	4-20TS	2	34	53.70
TF2PFLP4-40	4-40RS	4	49	53.15
TF2PFLP6-40	6-40RS	4	54	61.40
1-Foot Wide — Type G (Inverted T Bar)				
TF1GLP2-40	2-40RS	4	27	25.95
TF1GLP3-40	3-40RS	4	32	34.20
2-Foot Wide — Type G (Inverted T Bar)				
TF2GLP2-20	2-20TS	2	24	35.50
TF2GLP2-40	2-40RS	4	36	32.50
TF2GLP3-20	3-20TS	2	27	44.40
TF2GLP3-40	3-40RS	4	40	40.75
TF2GLP4-20	4-20TS	2	28	44.20
TF2GLP4-40	4-40RS	4	41	40.75
TF2GLP6-40	6-40RS	4	46	48.95

REGRESSED POLYSTYRENE LENS

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide — Type F (Flanged)				
TF1FRP2-40	2-40RS	4	29	\$31.80
TF1FRP2-42	4-40RS	8	57	60.15
TF1FRP3-40	3-40RS	4	34	40.00
TF1FRP3-42	6-40RS	8	62	68.30
2-Foot Wide — Type F (Flanged)				
TF2FRP2-20	2-20TS	2	26	41.75
TF2FRP2-40	2-40RS	4	38	40.45
TF2FRP3-20	3-20TS	2	29	50.65
TF2FRP3-40	3-40RS	4	42	48.65
TF2FRP4-20	4-20TS	2	30	50.45
TF2FRP4-40	4-40RS	4	43	48.65
TF2FRP6-40	6-40RS	4	48	56.80
1-Foot Wide — Type PF (Plaster Frame)				
TF1PFRP2-40	2-40RS	4	33	36.75
TF1PFRP2-42	4-40RS	8	65	68.30
TF1PFRP3-40	3-40RS	4	38	44.95
TF1PFRP3-42	6-40RS	8	70	76.50
2-Foot Wide — Type PF (Plaster Frame)				
TF2PFRP2-20	2-20TS	2	30	46.05
TF2PFRP2-40	2-40RS	4	44	46.55
TF2PFRP3-20	3-20TS	2	33	54.95
TF2PFRP3-40	3-40RS	4	48	54.80
TF2PFRP4-20	4-20TS	2	34	54.70
TF2PFRP4-40	4-40RS	4	49	54.80
TF2PFRP6-40	6-40RS	4	54	63.00
1-Foot Wide — Type G (Inverted T Bar)				
TF1GRP2-40	2-40RS	4	27	26.90
TF1GRP3-40	3-40RS	4	32	35.15
2-Foot Wide — Type G (Inverted T Bar)				
TF2GRP2-20	2-20TS	2	24	36.50
TF2GRP2-40	2-40RS	4	36	34.20
TF2GRP3-20	3-20TS	2	27	45.40
TF2GRP3-40	3-40RS	4	40	42.40
TF2GRP4-20	4-20TS	2	28	45.20
TF2GRP4-40	4-40RS	4	41	42.40
TF2GRP6-40	6-40RS	4	46	50.55

SMITHCRAFT LIGHTING FIXTURES

FRAMELESS TROFFERS SERIES HF

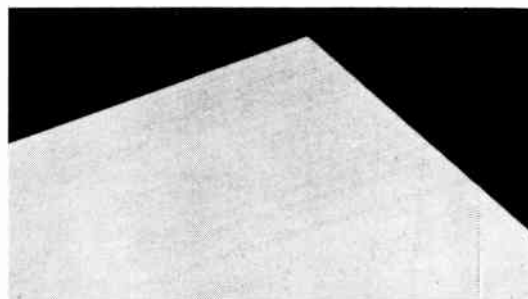


A larger expanse of clean, uninterrupted illuminated area surrounded by a minimum of metal trim for virtually all ceilings. By eliminating the shielding door frame, these troffers provide 11" x 47" (or 23" x 47") of recessed lighting free from hardware or the possibility of light leaks. In inverted tee grid systems, the illuminated shielding is surrounded only by the exposed members of the ceiling itself. In other type ceilings, only a single, narrow band of metal outlines the fixture in the ceiling. Diffusers are self-hinging and access to the interior of the unit is simple and trouble-free.

HOLOPHANE CONTROLENS

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide — Type F (Flanged)				
TF1FHF2-40	2-40RS	4	29	\$42.70
TF1FHF2-42	4-40RS	8	57	81.75
TF1FHF3-40	3-40RS	4	34	50.90
TF1FHF3-42	6-40RS	8	62	89.95
2-Foot Wide — Type F (Flanged)				
TF2FHF2-20	2-20TS	2	26	52.65
TF2FHF2-40	2-40RS	4	38	62.40
TF2FHF3-20	3-20TS	2	29	61.50
TF2FHF3-40	3-40RS	4	42	70.55
TF2FHF4-20	4-20TS	2	30	61.25
TF2FHF4-40	4-40RS	4	43	70.55
TF2FHF6-40	6-40RS	4	38	78.75
1-Foot Wide — Type PF (Plaster Frame)				
TF1PFHF2-40	2-40RS	4	33	47.65
TF1PFHF2-42	4-40RS	8	65	89.95
TF1PFHF3-40	3-40RS	4	38	55.80
TF1PFHF3-42	6-40RS	8	70	98.15
2-Foot Wide — Type PF (Plaster Frame)				
TF2PFHF2-20	2-20TS	2	30	56.80
TF2PFHF2-40	2-40RS	4	44	68.65
TF2PFHF3-20	3-20TS	2	33	53.25
TF2PFHF3-40	3-40RS	4	48	76.80
TF2PFHF4-20	4-20TS	2	34	65.50
TF2PFHF4-40	4-40RS	4	49	76.80
TF2PFHF6-40	6-40RS	4	54	85.00
1-Foot Wide — Type G (Inverted T Bar)				
TF1GHF2-40	2-40RS	4	27	37.75
TF1GHF3-40	3-40RS	4	32	45.95
2-Foot Wide — Type G (Inverted T Bar)				
TF2GHF2-20	2-20TS	2	24	47.40
TF2GHF2-40	2-40RS	4	36	56.15
TF2GHF3-20	3-20TS	2	27	56.25
TF2GHF3-40	3-40RS	4	40	64.30
TF2GHF4-20	4-20TS	2	28	56.05
TF2GHF4-40	4-40RS	4	41	64.30
TF2GHF6-40	6-40RS	4	46	72.50

TRIMLESS® TROFFERS SERIES LP & LA



The ultimate in architecturally clean recessed lighting design. No frame, no flange, no trim. A simple, absolutely uncluttered sheet of light in the ceiling without surrounding metal of any kind. A full 12" or 24" illuminated area. For virtually all ceilings supported by concealed members. Shielding opens or closes from either side or may be completely removed without any tools or visible hardware.

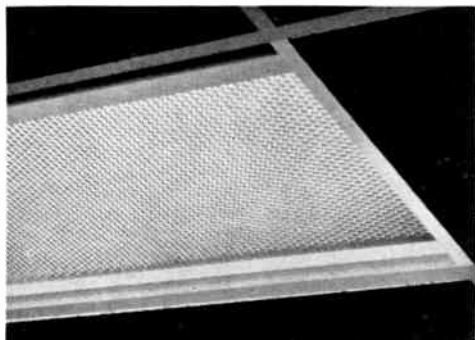
POLYSTYRENE LINEAR LENS — SERIES LP

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide Units				
TT1ULP2-40	2-40RS	4	30	\$33.90
TT1ULP2-42	4-40RS	8	59	65.00
TT1ULP3-40	3-40RS	4	35	42.05
TT1ULP3-42	6-40RS	8	64	73.25
TT1PFLP2-40	2-40RS	4	33	40.45
TT1PFLP2-42	4-40RS	8	65	76.80
TT1PFLP3-40	3-40RS	4	38	48.65
TT1PFLP3-42	6-40RS	8	70	85.00
2-Foot Wide Units				
TT2ULP2-20	2-20TS	2	25	45.30
TT2ULP3-20	3-20TS	2	28	54.25
TT2ULP4-20	4-20TS	2	29	54.00
TT2ULP2-40	2-40RS	4	40	45.65
TT2ULP3-40	3-40RS	4	45	53.90
TT2ULP4-40	4-40RS	4	45	53.90
TT2ULP6-40	6-40RS	4	50	62.05
TT2PFLP2-20	2-20TS	2	27	54.25
TT2PFLP3-20	3-20TS	2	30	59.50
TT2PFLP4-20	4-20TS	2	31	59.25
TT2PFLP2-40	2-40RS	4	43	53.55
TT2PFLP3-40	3-40RS	4	48	61.75
TT2PFLP4-40	4-40RS	4	48	61.75
TT2PFLP6-40	6-40RS	4	53	69.95

ACRYLIC LINEAR LENS — SERIES LA

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide Units				
TT1ULA2-40	2-40RS	4	30	\$39.05
TT1ULA2-42	4-40RS	8	59	75.50
TT1ULA3-40	3-40RS	4	35	47.30
TT1ULA3-42	6-40RS	8	64	83.70
TT1PFLA2-40	2-40RS	4	33	45.65
TT1PFLA2-42	4-40RS	8	65	87.35
TT1PFLA3-40	3-40RS	4	38	53.90
TT1PFLA3-42	6-40RS	8	70	95.50
2-Foot Wide Units				
TT2ULA2-20	2-20TS	2	25	50.65
TT2ULA3-20	3-20TS	2	28	59.60
TT2ULA4-20	4-20TS	2	29	59.30
TT2ULA2-40	2-40RS	4	40	55.20
TT2ULA3-40	3-40RS	4	45	63.40
TT2ULA4-40	4-40RS	4	45	63.40
TT2ULA6-40	6-40RS	4	50	71.60
TT2PFLA2-20	2-20TS	2	27	59.50
TT2PFLA3-20	3-20TS	2	30	72.70
TT2PFLA4-20	4-20TS	2	31	71.90
TT2PFLA2-40	2-40RS	4	43	61.40
TT2PFLA3-40	3-40RS	4	48	71.25
TT2PFLA4-40	4-40RS	4	48	71.25
TT2PFLA6-40	6-40RS	4	53	79.50

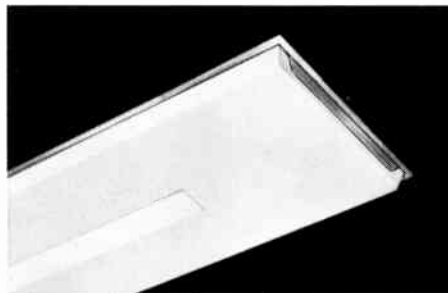
SMITHCRAFT LIGHTING FIXTURES

GRID-AIRE® TROFFERS
 For Grid "T" Bar Ceiling
 1 Foot Wide x 4 Foot Long


These troffers are for inverted "T" ceilings and have been engineered to provide high performance as a lighting fixture, a controlled air diffuser and as a heat removal unit.

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
Acrylic Prismatic Frameless — Series FAT-SP				
FAT-1GSP2-40CT	2-40RS	4	35	\$38.45
FAT-1GSP3-40CT	3-40RS	4	40	46.55
FAT-1GSP2-40PP	2-40RS	4	30	32.20
FAT-1GSP3-40PP	3-40RS	4	35	40.30
FAT-1GSP2-40BB	2-40RS	4	30	32.30
FAT-1GSP3-40BB	3-40RS	4	35	40.30
Holophane 6163 Frameless — Series FAT-HF				
FAT-1GHF2-40CT	2-40RS	4	35	46.55
FAT-1GHF3-40CT	3-40RS	4	40	54.70
FAT-1GHF2-40PP	2-40RS	4	30	40.30
FAT-1GHF3-40PP	3-40RS	4	35	48.45
FAT-1GHF2-40BB	2-40RS	4	30	40.30
FAT-1GHF3-40BB	3-40RS	4	35	48.45

Note: Prices include Air Chambers and Internal Damper Controls.

SLENDEX RECESSED SERIES RSX


These units are an extremely practical solution where minimum-cavity, low-ceiling conditions exist. They recess only 1 3/8" . . . eliminate cutting of existing ceiling members . . . go in flat with no depth required for tilting. New injection-molded dishes have clean, crisp lines, uniform thickness, greater break resistance. Illumination is clean and uniform with no light leaks. An interesting triangular pattern eliminates dark areas. Plastic panel may be hinged from either side. Opens and closes easily and quickly without tools or loose parts.

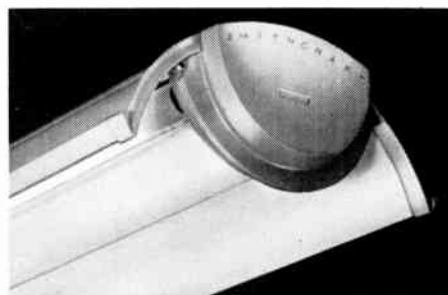
Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
1-Foot Wide Units				
RSXF2-40	2-40RS	4	20	\$38.15
RSXM2-40	2-40RS	4	20	36.95
RSXG2-40	2-40RS	4	19	36.05
RSXPF2-40	2-40	4	26	42.65
2-Foot Wide Units				
RSXF4-40	4-40RS	4	33	67.25
RSXM4-40	4-40RS	4	33	65.45
RSXG4-40	4-40RS	4	32	65.00
RSXPF4-40	4-40	4	44	72.20

TRANS-X INDUSTRIALS
20% Uplighting V Reflector
30% Cross Shielding

These fixtures have a patented transverse lighting with an efficiency of 87% with 20% uplighting and 30% crosswise shielding. An engineering breakthrough that allows low contrast, low brightness and high efficiency.

ALL BAKED WHITE ENAMEL — SERIES TVS

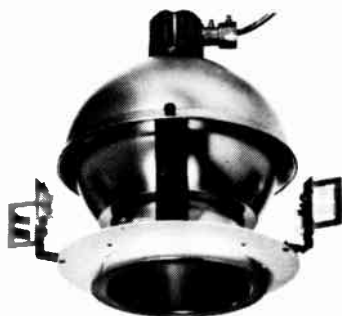
Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
Individual Units With End Caps				
TVS2-40	2-40RS	4	30	\$21.00
TVS2-42	4-40RS	8	60	41.45
TVS2-96	2-96SL	8	58	33.30
TVS2-48-800	2-48HO	4	33	36.55
TVS2-96-800	2-96HO	8	60	42.05
TVS2-48-1500	2-48PG	4	42	43.00
TVS2-96-1500	2-96PG	8	62	56.90
For Continuous Mounting With Coupling and No End Caps				
TVS2-42C	4-40RS	8	59	39.90
TVS2-96C	2-96SL	8	57	31.75
TVS2-96-800C	2-96HO	8	59	40.50
TVS2-96-1500C	2-96PG	8	61	55.30


ALL PORCELAIN ENAMEL — SERIES TVP

Cat. No.	Lamps	Lgth., Ft.	Shp. Wt., Lbs.	Each
Individual Units With End Caps				
TVP2-40	2-40RS	4	31	\$23.40
TVP2-42	4-40RS	8	62	46.15
TVP2-96	2-96SL	8	60	38.00
TVP2-48-800	2-48HO	4	34	38.95
TVP2-96-800	2-96HO	8	62	46.75
TVP2-48-1500	2-48PG	4	43	45.30
TVP2-96-1500	2-96PG	8	64	61.55
For Continuous Mounting With Coupling and No End Caps				
TVP2-42C	4-40RS	8	61	44.55
TVP2-96C	2-96SL	8	59	36.45
TVP2-96-800C	2-96HO	8	61	45.20
TVP2-96-1500C	2-96PG	8	63	60.00

SMITHCRAFT LIGHTING FIXTURES

APERTURE RECESSED CONTROLLED BRIGHTNESS DOWNLIGHTS



These units provide uniform illumination with even spacing to height ratio. Alzak aluminum reflector and conical baffle combine to produce a well defined beam light with 45° optical cut-off. General service lamps with various baffle finishes produce visual effects through a range of controlled brightness and colors.

Cat. No.	Alzak Baffle Description	Ship. Wt., Lbs.	Each
Flanged Units For 100W Lamps			
BD203	Clear Semi-specular	5	\$30.25
BD203-RB	Black Specular	5	32.50
BD203-RG	Gold Semi-specular	5	32.50
Flanged Units For 150W Lamps			
BD204	Clear Semi-specular	5	30.55
BD204-RB	Black Specular	5	32.50
BD204-RG	Gold Semi-specular	5	32.50
Flanged Units For 200/300W Lamps			
BD306	Clear Semi-specular	6	36.45
BD306-RB	Black Specular	6	38.45
BD306-RG	Gold Semi-specular	6	38.45

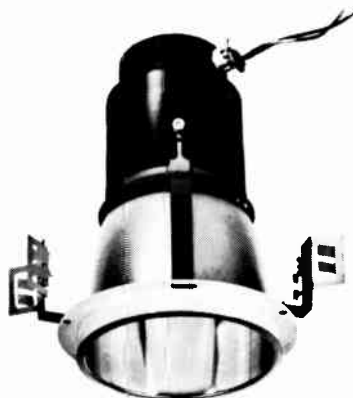
CONTROLENS® RECESSED ROUND GLASS UNITS



Round glass media units with Controlens® for wide angle lighting distribution with minimum glare. Ideal selection for stores, restaurants, lounges and other social areas. High efficiencies allow for maximum spacing of these flanged round units. Also available with Uniglo glass.

Cat. No.	Dia., In.	Lamps	Ship. Wt., Lbs.	Each
RG313	6	100W A-19	5	\$24.30
RG314	6	150W A-21	5	24.30
RG514	8	150W A-21	7	27.55
RG515	8	200W A-23	7	27.55
RG714	11	150W A-21	9	34.15
RG716	11	200/300W PS-25	9	34.15

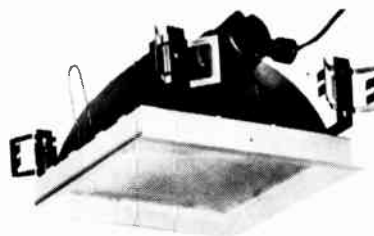
APERTURE RECESSED CONICAL UNITS



Reflector lamp conical baffle units contribute to lighting of large areas from medium to high ceilings. Used individually they produce high-lighting effects with sharp beams of intense light. Multiple finish selection gives design flexibility. A natural for lobbies, auditoriums and showrooms.

Cat. No.	Alzak Baffle Description	Ship. Wt., Lbs.	Each
Flanged Units For 75W R-30 Lamps			
CA302	Clear Semi-specular	3	\$21.95
CA302-RB	Black Specular	3	24.30
CA302-RG	Gold Semi-specular	3	24.30
Flanged Units For 150/300W R-40 Lamps			
CA506	Clear Semi-specular	6	31.50
CA506-RB	Black Specular	6	34.45
CA506-RG	Gold Semi-specular	6	34.45
Flanged Units For 300/500W R-40 Lamps			
CA507	Clear Semi-specular	7	33.80
CA507-RB	Black Specular	7	36.75
CA507-RG	Gold Semi-specular	7	36.75

CONTROLENS® RECESSED SQUARE GLASS UNITS

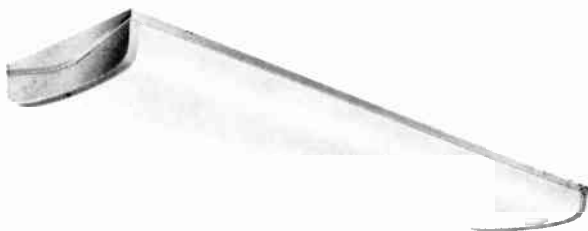


Square glass media units with Controlens® contribute to the lighting and appearance of architectural interiors. Banks, corridors, terminals and other large areas can be well lighted with a minimum number of these flanged square units. Also available with Contour/Dish or Uniglo glass.

Cat. No.	Dia., In.	Lamps	Ship. Wt., Lbs.	Each
LG513	8	100W A-19	8	\$23.80
LG514	8	150W A-21	8	23.80
LG714	10	150W A-21	11	28.20
LG716	10	200/300W PS-25	11	28.20

SUNBEAM FLUORESCENT LIGHTING FIXTURES

P2700 SERIES VISIONAIRES®



Fully enclosed, surface-mounted, tamper-proof Visionaires®. Curved diffuser is .125 inch translucent white Plexiglas which has excellent lamp hiding power and resistance to impact. Flush type captive fasteners. Thoroughly gasketed for moisture-sealing and dust-tightness. Phosphate treated and durable baked white enamel finish.

Cat. No.	Lamps	Ballast	— Dimens., In. —			Each
			W	H	L	
Rapid Start						
P2702-48RS	2-F40	HPF/CBM	12 ¹ / ₈	4 ¹ / ₈	51 ¹ / ₈	\$50.76
P2703-48RS	3-F40	HPF/CBM	12 ¹ / ₈	4 ¹ / ₈	51 ¹ / ₈	58.59
P2704-48RS	4-F40	HPF/CBM	12 ¹ / ₈	4 ¹ / ₈	51 ¹ / ₈	59.70
27NL	1-F6T5	Fluo. Nite Light				6.53

P2800 AND PA2800 SERIES VISIONAIRES®



Fully enclosed, single-lamp Visionaire® available with translucent white Styrene or Acrylic diffuser. Light distribution designed to illuminate vertical surfaces such as corridor walls, library stacks, etc. Have clip-on hinges permitting access from either side. Phosphate treated and durable baked white enamel finish.

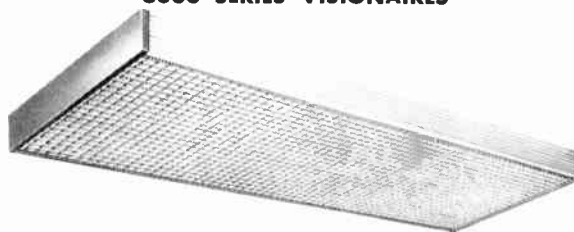
Cat. No.	Lamps	Ballast	— Dimens., In. —			Each
			W	H	L	
Trigger Start — Styrene Diffuser						
P2801-24TS	1-F20T12	LPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x24	\$12.63
24TS	1-F20T12	HPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x24	18.36
Rapid Start — Styrene Diffuser						
P2801-48RS	1-F40	LPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x48	15.27
48RS	1-F40	HPF/CBM	4 ⁷ / ₈	4 ⁷ / ₈	x48	17.22
96RS*	2-F40	HPF/CBM	4 ⁷ / ₈	4 ⁷ / ₈	x96	26.60
Trigger Start — Acrylic Diffuser						
PA2801-24TS	1-F20T12	LPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x24	14.73
24TS	1-F20T12	HPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x24	20.46
Rapid Start — Acrylic Diffuser						
PA2801-48RS	1-F40	LPF/UL	4 ⁷ / ₈	4 ⁷ / ₈	x48	18.27
48RS	1-F40	HPF/CBM	4 ⁷ / ₈	4 ⁷ / ₈	x48	20.22
96RS*	2-F40	HPB/CBM	4 ⁷ / ₈	4 ⁷ / ₈	x96	32.60

*Tandem.

Accessories

28C	Corner Connector	5.48
28X	Cross Connector	6.45
28T	Tee Connector	6.00

6300 SERIES VISIONAIRES®



Architecturally styled surface or pendant mounted fixtures with all-plastic, metal-reinforced, "wrap-around" for efficient lighting and good brightness control. Translucent white Styrene side diffusers inter-locked with clear SUNLUX® lens bottom panel. Phosphate treated and durable baked white enamel finish.

Cat. No.	Lamps	— Dimens., In. —			Each
		W	H	L	
Rapid Start — HPF/CBM Ballast					
QPCX6301-48RS	1-F40	7 ⁵ / ₈	4 ¹ / ₈	x49 ¹ / ₈	\$18.30
QPCX6301-96RS*	2-F40	7 ⁵ / ₈	4 ¹ / ₈	x98 ¹ / ₈	31.02
QPCX6302-48RS	2-F40	13	x3 ¹ / ₈	x49 ¹ / ₈	24.12
QPCX6302-96RS*	4-F40	13	x3 ¹ / ₈	x98 ¹ / ₈	48.24
QPCX6304-48RS	4-F40	22 ⁷ / ₈	x3 ¹ / ₈	x49 ¹ / ₈	41.00
Fixtures For Low Density Combustible Ceilings — Rapid Start — HPF/CBM Ballast					
QPCX/LD					
6302-48RS	2-F40	13	x3 ¹ / ₈	x49 ¹ / ₈	24.87
6302-96RS*	4-F40	13	x3 ¹ / ₈	x98 ¹ / ₈	49.70
6304-48RS	4-F40	22 ⁷ / ₈	x3 ¹ / ₈	x49 ¹ / ₈	42.51

*Tandem.

7450 SERIES STARAMA MARK II VISIONAIRES®



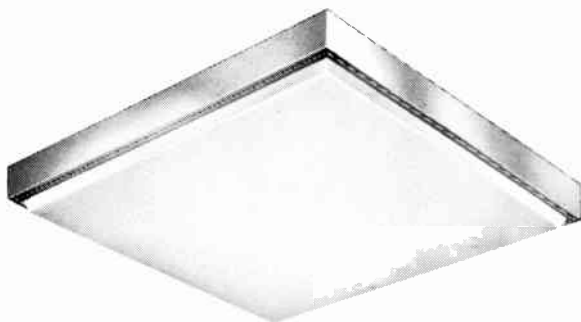
Fully enclosed, Styrene plastic shielded Visionaires®. Clear prismatic sides inter-locked with clear SUNLUX® lens panel bottom. Completely framed diffuser opens from either side on full length hook-on hinges. Phosphate treated and durable baked white enamel finish.

Cat. No.	Lamps	— Dimens., In. —			Each
		W	H	L	
Rapid Start — HPF/CBM Ballast					
QPCX7451-48RS	1-F40	8 ¹ / ₈	4 ⁵ / ₈	x49 ¹ / ₈	\$18.00
QPCX7451-96RS*	2-F40	8 ¹ / ₈	4 ⁵ / ₈	x98 ¹ / ₈	30.42
QPCX7452-48RS	2-F40	13 ⁵ / ₈	x3 ³ / ₄	x49 ¹ / ₈	23.84
QPCX7452-96RS*	4-F40	13 ⁵ / ₈	x3 ³ / ₄	x98 ¹ / ₈	47.67
QPCX7454-48RS	4-F40	24 ¹ / ₈	x3 ³ / ₄	x49 ¹ / ₈	40.67
Fixtures For Low Density Combustible Ceiling — Rapid Start — HPF/CBM Ballast — 118 Volt					
QPCX/LD					
7452-48RS	2-F40	13 ⁵ / ₈	x3 ³ / ₄	x49 ¹ / ₈	24.59
7452-96RS*	4-F40	13 ⁵ / ₈	x3 ³ / ₄	x98 ¹ / ₈	49.17
7454-48RS	4-F40	24 ¹ / ₈	x3 ³ / ₄	x49 ¹ / ₈	42.17

*Tandem.

SUNBEAM FLUORESCENT LIGHTING FIXTURES

**4700, 4900 AND 6700 SERIES
EXTRA-SHALLOW VISIONAIRES®**



QSDP 4900 Series (illustrated)

Shallow, fully enclosed, surface-mounted units with metal sides. Completely framed lens panel bottom opens on quick-release hook-on hinges; touch-type latches. Phosphate treated and durable baked white enamel finish.

6700 Series — 1 foot wide (nominal) with clear Styrene SUNLUX® lens panel bottom.

Cat. No.	Lamps	— Dimens., In. —			Each
		W	H	L	
Trigger Start — HPF/UL Ballast					
QPCX6702-24TS†	2-F20T12	12 1/2	x3 3/8	x25 1/8	\$28.50
QPCX6702-24TS	2-F20T12	12 1/2	x3 3/8	x25 1/8	32.60
QPCX6703-24TS†	3-F20T12	12 1/2	x3 3/8	x25 1/8	33.29
QPCX6703-24TS	3-F20T12	12 1/2	x3 3/8	x25 1/8	42.90

†LPF/UL ballast.

Rapid Start — HPF/CBM Ballast					
QPCX6702-48RS	2-F40	12 1/2	x3 3/8	x49 1/8	32.85
QPCX6702-96RS*	4-F40	12 1/2	x3 3/8	x98 1/8	61.73
QPCX6703-48RS	3-F40	12 1/2	x3 3/8	x49 1/8	39.60
QPCX6703-96RS*	6-F40	12 1/2	x3 3/8	x98 1/8	71.24

*Tandem.

4700 Series — 2 foot wide (nominal) with clear Styrene SUNLUX® lens panel bottom.

Cat. No.	Lamps	— Dimens., In. —			Each
		W	H	L	
Trigger Start — HPF/UL Ballast					
QPCX4702-24TS†	2-F20T12	23 1/2	x3 3/8	x25 1/8	\$35.13
QPCX4702-24TS	2-F20T12	23 1/2	x3 3/8	x25 1/8	39.30
QPCX4703-24TS†	3-F20T12	23 1/2	x3 3/8	x25 1/8	39.36
QPCX4703-24TS	3-F20T12	23 1/2	x3 3/8	x25 1/8	49.26
QPCX4704-24TS†	4-F20T12	23 1/2	x3 3/8	x25 1/8	41.73
QPCX4704-24TS	4-F20T12	23 1/2	x3 3/8	x25 1/8	50.09
QPCX4706-24TS†	6-F20T12	23 1/2	x3 3/8	x25 1/8	47.49
QPCX4706-24TS	6-F20T12	23 1/2	x3 3/8	x25 1/8	60.05

†LPF/UL ballast.

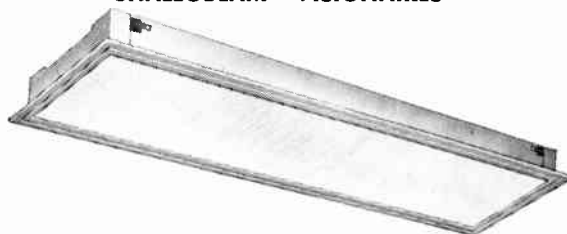
Rapid Start — HPF/CBM Ballast					
QPCX4702-48RS	2-F40	23 1/2	x3 3/8	x49 1/8	41.95
QPCX4702-96RS*	4-F40	23 1/2	x3 3/8	x98 1/8	81.89
QPCX4703-48RS	3-F40	23 1/2	x3 3/8	x49 1/8	48.35
QPCX4703-96RS*	6-F40	23 1/2	x3 3/8	x98 1/8	89.33
QPCX4704-48RS	4-F40	23 1/2	x3 3/8	x49 1/8	49.29
QPCX4704-96RS*	8-F40	23 1/2	x3 3/8	x98 1/8	96.15
QPCX4706-48RS	6-F40	23 1/2	x3 3/8	x49 1/8	55.67
QPCX4706-96RS*	12-F40	23 1/2	x3 3/8	x98 1/8	110.97

*Tandem.

4900 Series — 4 foot wide (nominal) with smooth, "dropped" translucent white, single-piece Plexiglas diffuser panel bottom.

Cat. No.	Lamps	— Dimens., In. —			Each
		W	H	L	
Rapid Start — HPF/CBM Ballast					
QSDP4906-48RS	6-F40	49 1/8	x3 3/8	x47 1/8	\$97.74
QSDP4908-48RS	8-F40	49 1/8	x3 3/8	x47 1/8	104.82

**9100, 9200 AND 9400 SERIES
SHALLOBEAM® VISIONAIRES®**



Shallow, recessed Visionaires® with trim flange. For M1 and M4 mounting only. Integral support bars. Metal framed, hook-on hinged, clear Styrene SUNLUX® lens panel bottom. Touch-type latches. Phosphate treated and durable baked white enamel finish.

Cat. No.	Lamps	Ballast	Each
Trigger Start			
RQPCX			
9102-24TS/M1	2-F20T12	LPF/UL	\$26.69
Rapid Start			
RQPCX			
9102-48RS/M1	2-F40	HPF/CBM	32.45
9102-96RS/M1*	4-F40	HPF/CBM	61.62
9103-48RS/M1	3-F40	HPF/CBM	38.34
9103-96RS/M1*	6-F40	HPF/CBM	68.40

*Tandem.

Cat. No.	Lamps	Ballast	Each
Trigger Start			
RQPCX			
9202-24TS/M1	2-F20T12	LPF/UL	29.30
9204-24TS/M1	4-F20T12	LPF/UL	34.44
Rapid Start			
RQPCX			
9202-48RS/M1	2-F40	HPF/CBM	40.70
9202-96RS/M1*	4-F40	HPF/CBM	77.16
9203-48RS/M1	3-F40	HPF/CBM	47.18
9204-48RS/M1	4-F40	HPF/CBM	47.55

*Tandem.

Cat. No.	Lamps	Ballast	Each
Rapid Start			
RQPCX			
9406-48RS/M1	6-F40	HPF/CBM	73.56
9408-48RS/M1	8-F40	HPF/CBM	80.90

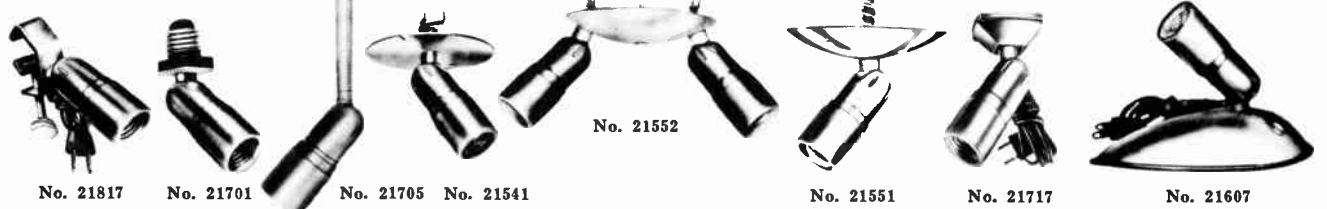
EXAMATRON MEDICAL EXAMINATION LIGHT



New high-intensity, wall-mounted, positionable medical examination light. Takes Iodine Quartz lamp rated for 2000 hours of peak performance. Color corrected to AMA standards for surgical lighting. Decorative styled with walnut veneer and easy-to-clean aluminum finish. Extendable arms allow lamp to be positioned over any area of the body. UL listed.

Cat. No.	Description	Each
XMQ/4	Portable Unit with 3-Wire Cord and Plug	\$139.95
XMQ/45	Unit for Permanent Mounting to Junction Box in Wall.....	139.95

SWIVELIER® ADJUSTABLE LIGHTING UNITS



Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
21541	Swivelier Swivel on combination flat plate for 3" or 4" box.....	24	14	\$2.44
21551	Swivelier Swivel on combination domed plate for 3" or 4" box.....	24	18	2.78
21552	2 Swivelier Swivels on domed plate for 3" or 4" box.....	12	14	4.16
21607	Portable; weighted, padded base; cord and plug.....	12	17	3.19
21701	"Screw-in".....	24	9	2.03
21705	"Screw-in"; 5" pipe.....	12	6	2.96
21717	Swivelier Swivel on 1 7/8" x 2 1/2" plate; cord and plug.....	12	7	2.96
21817	1" Clamp-on Swivelier Swivel.....	12	8	3.45

All Swivelier units are Underwriters' Laboratories, Inc. listed.

SWIVELIER ADJUSTABLE SHADE UNITS

Adjust without wing nuts or set screws. Will not work loose or drop down regardless of number of adjustments . . . "stays put . . . at any angle!"™ Keyless mechanism. Finish: Brushed Satin Aluminum.

MIDGET® SHADE UNITS

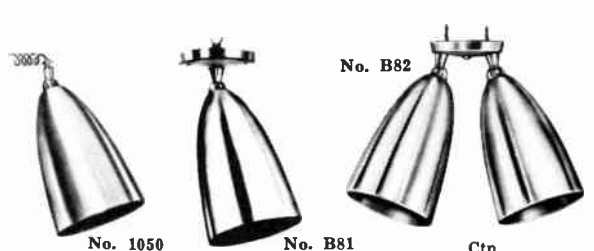
For up to 75W R-30 or 100W Standard Lamps



Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
1020	Threaded Stem, 5/8", 42" leads	12	14	\$7.20
M81	Single Shade Canopy, wired. For 3 1/4" or 4" box	12	18	7.76
M82	Twin Shade Canopy, wired. For 3 1/4" or 4" box	6	12	15.56

TORPEDO® SHADE UNITS

For up to 300W R-40 or 150W PAR-38 Lamps

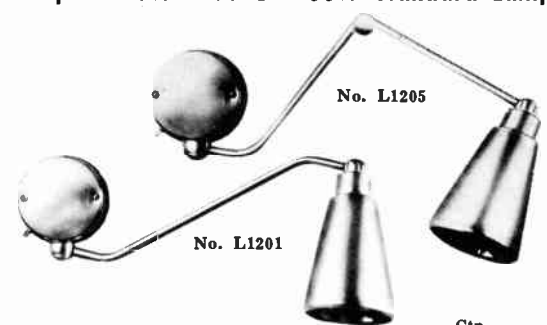


Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
1050	Threaded Stem, 5/8", 42" leads	12	18	\$7.20
B81	Single Shade Canopy, wired. For 3 1/4" or 4" box	12	24	7.76
B82	Twin Shade Canopy, wired. For 3 1/4" or 4" box	6	18	15.56

All Swivelier units are I.B.E.W. wired.

SWIVELIER ADJUSTABLE "VOGUE-LITES"®

For up to 75W R-30 or 100W Standard Lamps



Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
L1201	"Vogue" shade; 17" arm; switch. For 3" or 4" box	6	24	\$14.21
L1205	"Vogue" shade; 22" arm; "Swivomatic" joint; switch. For 3" or 4" box	6	30	17.21

Finish: Kiln-baked Gray Enamel.

SWIVELIER CANOPY UNIT FOR HIGH CEILING LIGHTING

For 300W PAR-56 Lamp

Completely wired; ready to install on up to 4 1/2" outlet boxes.

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
6751	1	6	\$21.57



No. 6751

SWIVELIER ADJUSTABLE UNITS FOR RACEWAY ATTACHMENT

Provide utmost lighting flexibility in store windows, interiors, museums, galleries, auditoriums, theatres, lobbies, factories, etc.

SWIVELIER ADJUSTABLE "CHANNELITES"

For use on Wiremold Raceway Nos. 2100 and 3000

FOR WIREMOLD RACEWAY No. 2100



No. 25722 TORPEDO SHADE
No. 25721 NO SHADE
No. 25724 TORPEDO SHADE

Cat. No.	Finish	Std. Ctn.	Wt., Lbs.	Each
25721	Kiln-baked Gray Enamel...	12	5	\$3.23
25722	Brushed Satin Aluminum...	6	12	9.71
25724	Kiln-baked Gray Enamel...	6	12	8.96

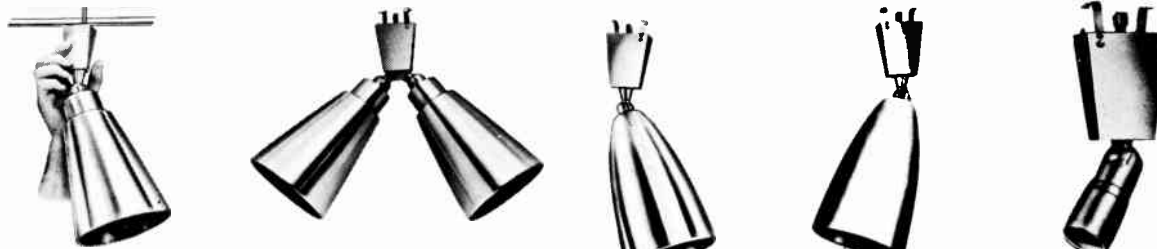
FOR WIREMOLD RACEWAY No. 3000



No. 25731 TORPEDO SHADE
No. 25730 NO SHADE
No. 25733 TORPEDO SHADE

Cat. No.	Finish	Std. Ctn.	Wt., Lbs.	Each
25730	Kiln-baked Gray Enamel...	12	6	\$3.38
25731	Brushed Satin Aluminum...	6	12	9.71
25733	Kiln-baked Gray Enamel...	6	12	8.96

SWIVELIER ADJUSTABLE LIGHTING UNITS FOR BULLDOG "TROL-E-DUCT" ATTACHMENT



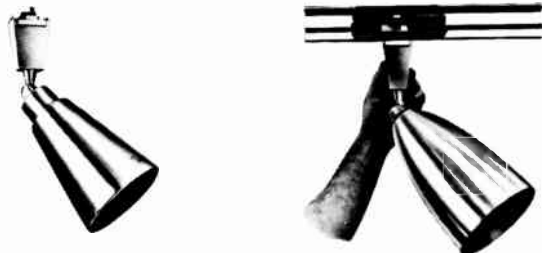
No. 25005 CATALINA SHADE
No. 25006 TWO CATALINA SHADES
No. 25008 TORPEDO SHADE
No. 25003 TORPEDO SHADE
No. 25000 NO SHADE

Cat. No.	Description	Std. Ctn.	Wt., Lbs.	Each
25000	Swivelier Swivel on Bulldog Twistout Plug	12	14	\$ 8.33
25003	Torpedo Shade; Kiln-baked Gray Enamel Finish	6	14	12.86
25005	Catalina Shade; Brushed Satin Aluminum Finish	6	14	13.99
25006	2 Catalina Shades; Brushed Satin Aluminum Finish	1	3	18.15
25008	Torpedo Shade; Brushed Satin Aluminum Finish	6	15	13.99

SWIVELIER "PLUG-A-LITES"

For use on General Electric Type LW Plug-In Busway

FOR UP TO 300W R-40 OR 150W PAR-38 LAMPS



No. 25505/25605 CATALINA SHADE
No. 25508/25608 TORPEDO SHADE

Cat. No.	Std. Ctn.	Wt., Lbs.	Each
A&N Plug 25505	6	13	\$13.99
B&N Plug 25605	6	13	13.99

FOR 200W PAR-46 LAMPS (SIDE PRONG)



No. 25507/25607 BERMUDA 46 SHADE

Cat. No.	Std. Ctn.	Wt., Lbs.	Each
A&N Plug 25507	12	13	\$ 8.33
B&N Plug 25607	6	15	20.96

FOR UP TO 300W R-40 MEDIUM BASE LAMPS



No. 25500/25600 NO SHADE

Cat. No.	Std. Ctn.	Wt., Lbs.	Each
A&N Plug 25500	12	13	\$ 8.33
B&N Plug 25600	6	15	20.96

SWIVELIER ADJUSTABLE "DEXTRA-LITES"

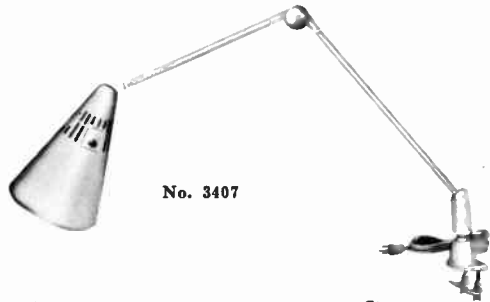
Modern industrial and commercial lighting for plants, offices, schools, etc.

INCANDESCENT "COOLITES"

Accommodate up to 100-watt lamp. Stay cool . . . prevent burns . . . extra safety factors.

An incandescent metal shade engineered to remain comfortable to the touch even after long hours of use with 100-watt lamp. Will not work loose or drop down.

Finish: Kiln-baked Gray Enamel.



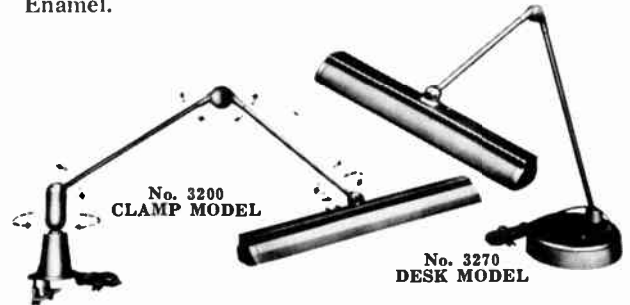
Cat. No.	Arm Lgth., In.	Type Cord	Std. Ctn.	Ctn. Wt., Lbs.	Each
3406	24	2-Conductor	6	36	\$16.46
3407	24	3-Conductor	6	36	17.21
3408	34	2-Conductor	6	36	17.21
3409	34	3-Conductor	6	36	17.96

FLUORESCENT UNITS

2-lite, 15-watt, T8, for alternating current (AC), 110-125 volts, 60 cycles, low power factor.

For assembly tables, drafting boards, desks, repair benches, laboratories, business machines, inspection tables, etc.

Finish: Choice of Bronze or Gray Kiln-baked Enamel.

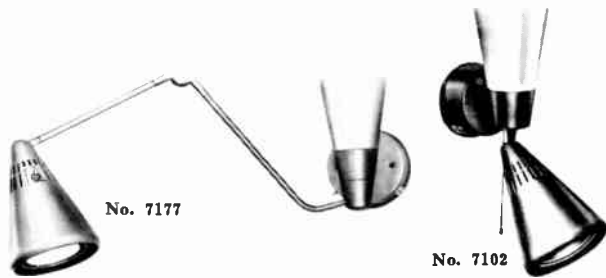


Cat. No.	Arm Lgth., In.	Type Cord	Std. Ctn.	Ctn. Wt., Lbs.	Each
3200	24	2-Conductor	6	48	\$21.56
3201	34	2-Conductor	6	48	22.31
3203	34	3-Conductor	6	48	23.06
3270	34	2-Conductor	3	54	29.21
3271	34	3-Conductor	3	54	29.96

SWIVELIER ADJUSTABLE "HOSPITAL-LITES"

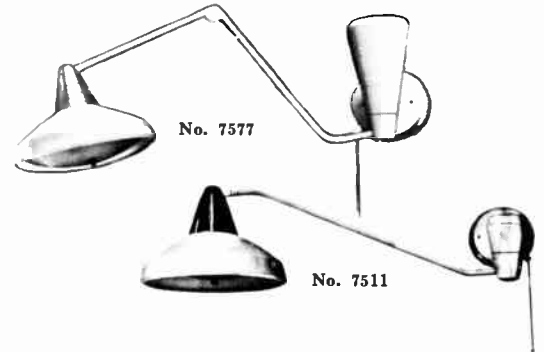
For patients' rooms, dormitories, convalescent homes, homes for the aged, etc.

COOLITE SHADE WALL UNITS



Cat. No.	Description	Std. Ctn.	Ctn. Wt., Lbs.	Each
7177	Toggle switch; 6½" dia. canopy; 34" arm with joint; fiberglass upshade; "Plug-Mount" feature	1	9	\$34.50
7102	5¼" dia. canopy; 2-circuit pull chain switch; fiberglass upshade	1	5	20.97

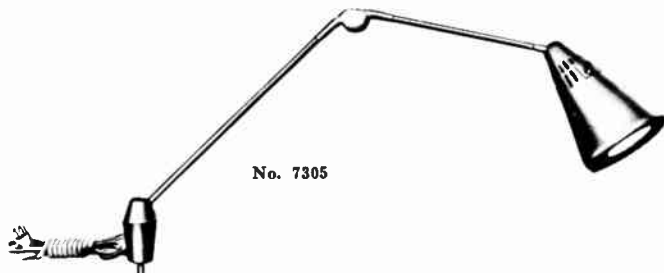
GOLD 'N' WHITE WALL UNITS



Gloss white shade with polished brass finish trim. Translucent clip-on diffuser. Pull chain switch.

Cat. No.	Description	Std. Ctn.	Ctn. Wt., Lbs.	Each
7511	5¼" dia. canopy; 21" arm	1	7	22.77
7577	Aluminum upshade; 6½" dia. canopy; 34" arm with joint; "Plug-Mount" feature	1	9	\$39.57

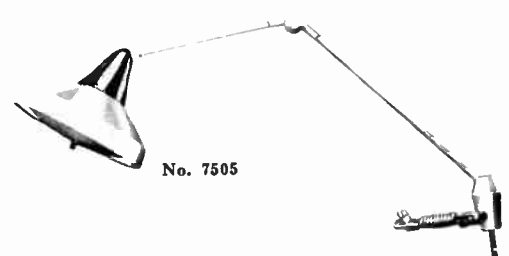
COOLITE SHADE BEDBOARD UNITS



34" arm with joint; 3" shank; 3-conductor cord and grounded plug.

Cat. No.	Type Switch	Std. Ctn.	Ctn. Wt., Lbs.	Each
7305	Toggle Switch	1	7	\$17.97

GOLD 'N' WHITE BEDBOARD UNITS



34" arm with joint; 3" shank; 3-conductor cord and grounded plug.

Cat. No.	Type Switch	Std. Ctn.	Ctn. Wt., Lbs.	Each
7505	Rotary Switch	1	7	\$19.50

SWIVELIER ADJUSTABLE OUTDOOR LIGHTING

Underwriters' Laboratories listed for Outdoor and Indoor use (lamps not included).

UNITS FOR IODINE QUARTZ LAMPS
 ½" NPT threaded stem; leads. Finish: Silver Glow.



No. 14201AN



No. 14101AN



No. 14500AN

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
14101AN	For 250W Single-ended (mini-can base) Iodine Quartz Lamps	6	18	\$11.96
14201AN	For 300W or 400W Double-ended Iodine Quartz Lamps	6	16	13.13
14500AN	For 500W PAR-Q56 Iodine Quartz Lamps	1	3	16.77

DIE CAST ALUMINUM SHADE UNITS

(All canopy units pre-drilled; supplied with canopy sealing gasket, universal mounting plate, ball-head mounting screws). Finish: Brushed Satin Aluminum.

SAMOA SHADE DESIGN
 For up to 150W PAR-38 or 250W PAR-Q38 Lamps



No. 10100SA



No. 10101SA



No. 10102SA

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
10100SA	Threaded stem, ½", 42" leads	6	20	\$ 8.21
10101SA	1-lite canopy unit	6	20	10.46
10102SA	2-lite canopy unit	1	6	15.30

LIDO SHADE DESIGN

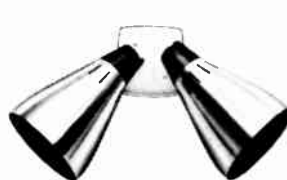
For up to 300W R-40, 150W PAR-38 or 250W PAR-Q38 Lamps



No. 10200SA



No. 10201SA



No. 10202SA

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
10200SA	Threaded stem, ½", 42" leads	6	22	\$ 9.38
10201SA	1-lite canopy unit	6	25	11.63
10202SA	2-lite canopy unit	1	7	17.10

BALI SHADE DESIGN

For up to 300W R-40, 150W PAR-38 or 250W PAR-Q38 Lamps



No. 10300SA



No. 10301SA



No. 10302SA

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
10300SA	Threaded stem, ½", 42" leads	6	20	\$ 9.71
10301SA	1-lite canopy unit	6	24	11.96
10302SA	2-lite canopy unit	1	7	17.70

ADJUSTABLE LAMPHOLDERS

For up to 300W R-40, 150W PAR-38 or 250W PAR-Q38 Lamps

DIE-CAST ALUMINUM

½" NPT threaded stem; 9" leads. Finish: Silver Glow.



No. 11001AN



No. 11101AN



No. 11201AN

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
11001AN	Basic Version	24	33	\$ 2.96
11101AN	Half-skirted Version	12	22	3.94
11201AN	Full-skirted Version	12	26	5.21

SPUN ALUMINUM

½" NPT threaded stem; 9" leads. Finish: Silver Glow.



No. 12001



No. 12101



No. 12201

Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
12001	Basic Version	24	16	\$ 2.44
12101	Half-skirted Version	6	6	3.11
12201	Full-skirted Version	24	32	3.98

SWIVELIER ARCHITECTURAL LIGHTING

RECESSED ADJUSTABLE DOWNLITES



No. 41485

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
41485	6	24	\$16.31

150W PAR-38 or 150W R-40 lamps.
Face plate finish: Satin Aluminum.



No. 41486

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
41486	4	29	\$22.46

150W PAR-38 lamp.
Face plate finish: Aluminum.

GYRO-LITE



No. 41425

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
41425	6	30	\$22.13

Up to 75W or 150W PAR-38 or 75W R-30 lamps.
Finish: Brushed Satin Aluminum face plate and shade.

ANGLES 75° — ROTATES 350°



SWIVELIER UNITS FOR "COOL" LAMPS*

- *General Electric "COOL-BEAM"
- Westinghouse "LOW TEMP"
- Sylvania "COOL-LUX"

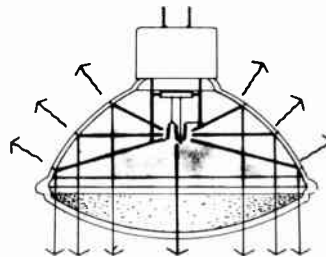


No. 40737

150W PAR-38 "COOL" lamps (also 75W PAR-38 and 250W PAR-Q38)

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
40737	6	22	\$11.03

"COOL" LAMP TOPLITES



Most of the heat-producing infrared is transmitted through the back while reflecting visible light forward.

RECESSED ADJUSTABLE TOPLITES



No. 41738

No. 41738—150W PAR-38 "COOL" lamps. No. 41756 — 300W PAR-56 "COOL" lamps.

Cat. No.	Std. Ctn.	Ctn. Wt. Lbs.	Each
41738	1	4	\$18.42
41756	1	7	24.27

SWIVELIER LOUVERED TOPLITES



No. 40482

Cat. No.	Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
40482	75W R-30	12	21	\$4.39
40489	150W PAR-38	12	25	4.39

SWIVELIER OPEN TOPLITES



No. 40485

Cat. No.	Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
40478	75W R-30	12	18	\$3.26
40485	150W PAR-38	12	22	3.26

SWIVELIER SKIRTED DOWNLITES



No. 40410

Cat. No.	Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
40410	75W R-30	12	32	\$8.44
40411	150W R-40	12	35	9.56

None of the units on this page is supplied with plaster ring. Plaster ring available separately at additional cost.

SWIVELIER ARCHITECTURAL LIGHTING

SWIVELIER SHALLOW DROP GLASS DOWNLITES
For Concrete Installation

SWIVELIER SHALLOW LENS DOWNLITES
For Concrete Installation



No. 17260

Cat. No.	Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
17260	1-100W/150W	2	14	\$32.63
17261	2-150W	1	8	37.50

Cat. No.	Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
17262	60W	4	15	\$26.63
17263	150W	2	14	35.62

SWIVELIER EXIT & HOSE LITES

SWIVELIER WALL BRACKETS



No. 47010



No. 47012

Cat. No.	Lamp Type	Std. Ctn.	Ctn. Wt. Lbs.	Each
47010	7 1/2 W	12	8	\$11.63
47011	25W	12	11	20.21
47012	25W	12	10	20.21

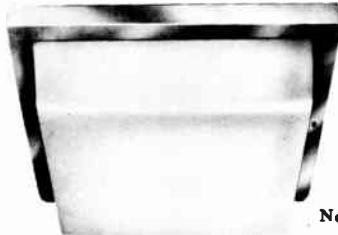


No. 46011

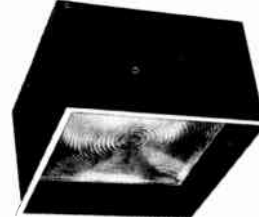
Cat. No.	Description	Std. Ctn.	Ctn. Wt. Lbs.	Each
46010	Keyless	6	20	\$7.13
46011	Keyless w/grounded convenience outlet	6	21	7.69
46012	Switch and grounded convenience outlet	6	22	8.44

SWIVELIER SURFACE MOUNTED SQUARES

SWIVELIER REGRESSED LOW-BRITE LENS LITE



No. 45010



No. 43010

Cat. No.	Lamp Type	No. Lamps	Std. Ctn.	Ctn. Wt. Lbs.	Each
45010	A-100	1	2	12	\$19.88
45011	A-100	2	1	7	23.37

Cat. No.	Lamp Type	Std. Ctn.	Ctn. Wt. Lbs.	Each*
43010	100W	2	10	\$32.44
43011	150W	2	15	38.44
43012	300W	1	8	38.70

*Less plaster ring.

SWIVELIER DRUM LITES



No. 45410

SATIN ALUMINUM TAPER-TYPE DRUMS

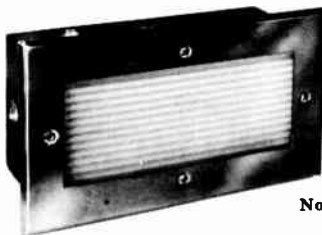
Cat. No.	Type	Std. Ctn.	Ctn. Wt. Lbs.	Each
150W R-40 Lamps				
45410	Open	12	22	\$8.21
45411	Louver	12	26	9.71



No. 45412

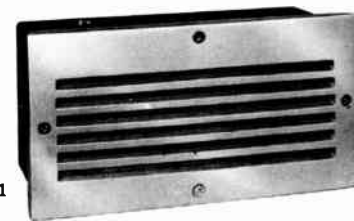
SATIN ALUMINUM PIPE-TYPE DRUM

Cat. No.	Type	Std. Ctn.	Ctn. Wt. Lbs.	Each
150W R-40 Lamps				
45412	Open	12	25	\$8.21
45413	Louver	12	28	9.71
75W R-30 Lamps				
45414	Open	12	20	\$7.13
45415	Louver	12	23	8.21



No. 17250

Cat. No.	Lamp Type	Std. Ctn.	Ctn. Wt. Lbs.	Each
17250	A-100	6	20	\$29.96



No. 17251

Cat. No.	Lamp Type	Std. Ctn.	Ctn. Wt. Lbs.	Each
17251	A-100	6	20	\$36.71

WAKEFIELD PHOTOMETRIC ON-SURFACE LUMINAIRES

PHOTOMETRIC II



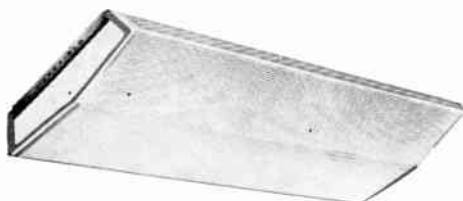
A completely new injection-molded refracting luminaire for on-ceiling or stem mounting in schools, colleges, offices, libraries, etc.

Snap-in-and-off reflector and ballast covers. Snap-in-and-out sockets. Refractor removable from either side without tools. All steel parts white enameled. CBM/ETL, HPF ballasts. IBEW, UL/CSA labeled.

Cat. No.	No. of Lamps	Description	Each
With Styrene Refractor			
PHR-214	2-F40	4' On-Surface, RS	\$26.90
PHR-218-T	4-F40	8' On-Surface, RS*	53.80
With Acrylic Refractor			
PHR-214-AA	2-F40	4' On-Surface, RS	30.75
PHR-218-TAA	4-F40	8' On-Surface, RS*	61.50

*Tandem.

PHOTOMETRIC IV



An injection molded refracting luminaire modular in length 48" ± 3/8", 96" ± 3/8". Approximately 75% of the light is directed downward and 25% upward. Brightness is fully controlled in the direct glare zone. Reflection factor of the baked enamel is .88.

The 4' refractor is removable from either side without tools or squeezing—simply lifts, slides and removes with a hinging action for ease of maintenance. The 8' unit uses two 4' refractors. Units form completely luminous rows without visible metal separation.

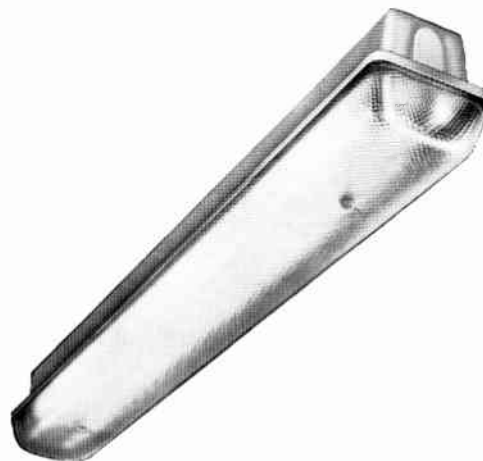
The Photometric is designed for either close ceiling or stem mounting; facilitated by a sliding clamp hanger. The ballast covers snap on or off without tools. Socket supports snap in or out for easy replacement. The ballast is designed to meet CBM higher output standards. There are no visible screws, nuts, bolts, rivets, welds, or knockouts to blemish this luminaire. Channel is rigidized 20 gauge steel. Limitations: Check code before mounting direct to combustible ceilings. Use No. 61, 1 1/2" ceiling hanger if required.

Body depth—4 5/8".

WITH ACRYLIC REFRACTOR
On-Surface, Rapid-Start

Cat. No.	No. of Lamps	Description	Each
PHR-414-AA	4-F40	4'	\$51.55
PHR-418-TAA	8-F40	8' Tandem	98.10
With Styrene Refractor			
PHR-414	4-F40	4'	43.25
PHR-418-T	8-F40	8' Tandem	81.45

WAKEFIELD OMNI LUMINAIRES



An all purpose luminaire. May be used inside or outside.

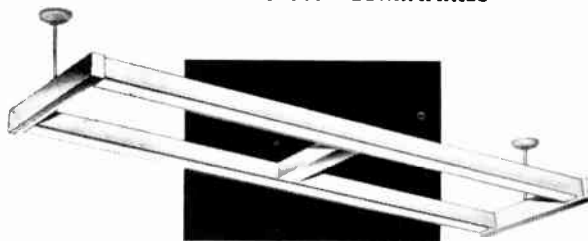
Housing is seamless, one-piece anodized aluminum. The pressure formed Plexiglas* shielding which encloses the bottom of the housing carries a 15 year guarantee for light stability. An 18 gauge steel plate supporting the ballast and lampholders is mounted in the housing. A moisture and dust tight joint is formed between the housing and the shielding by a cushion type neoprene rubber seal. Nylon safety straps permit maintenance without removing shielding.

*Trademark

Cat. No.	No. of Lamps	Description	Each
ONR-214	2-F40	4' Rapid Start	\$32.90
For 277V ballasts, suffix "D" to Cat. No. and add \$0.75.			
ONH-214	2-48T12-HO	4' High Output	48.30
For 277V ballasts, suffix "D" to Cat. No.—no extra charge.			

SMOOT-HOLMAN COMMERCIAL LUMINAIRES

"PERFECT VISION" LUMINAIRES



May be mounted within 12" of ceiling. Finish is baked-on white Permalux over rust inhibited metal. Depressible lamp sockets for easy relamping from above. HPF ETL certified ballast. Plastic bottom panels or louvers as desired. 110/125 Volt AC. Other voltages available. Width 30 3/8"; normal depth, ceiling to bottom of unit 18". IBEW and U/L labels. Patent pending.

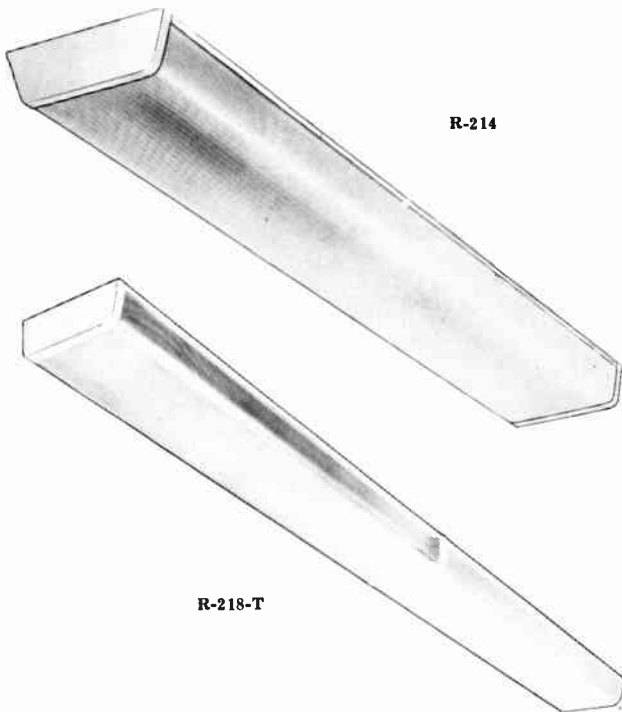
Cat. No.	Lamps Required	Hanger Spacing, In.	Each
*PV-288	2-F96T12HO	96	\$57.50
*PV-268	2-F72T12HO	72	57.50
*PV-284	2-F96T12	96	53.44
*PV-264	2-F72T12	72	53.44
†PVC-288	2-F96T12HO	96	53.44
†PVC-268	2-F72T12HO	72	53.44
†PVC-284	2-F96T12	96	49.39
†PVC-264	2-F72T12	72	49.39

*Units supplied with end caps and 2 hangers for individual installation. Every continuous row also requires one of these.

†Units supplied with one hanger and no end caps for continuous rows. Order one PV basic unit and one less PVC units than the total number of units in the row.

If plastic louvers having 40° x 40° cut-off instead of luminous plastic panels are desired change catalog number prefix from "PV" to "PVL" and add \$5.25 to prices shown.

WAKEFIELD PRISMATIC ON-SURFACE LUMINAIRES



The Wakefield Prismatic on-surface fluorescent luminaire is designed for virtually every commercial and institutional application. Body is of formed 20 gauge steel. The finish, which is undercoated for corrosion protection, is sprayed white enamel using latest spraying and baking techniques. The panoramic diffuser is 1/8" thick clear lens in choice of acrylic or styrene plastic, and is quickly and easily removable without tools of any kind.

I.B.E.W., U. L./CSA labeled. CMB/ETL, HPF thermally protected non-resetting ballast. For on-ceiling, close (1 1/2") to ceiling, and suspension mounting.

LIMITATIONS:

Available for 4-ft. C/W or W/W Rapid Start lamps only. Local code may require #11 (1 1/2" drop) when used on combustible ceilings.

SPECIFYING POINTS FOR ARCHITECTS AND ENGINEERS:

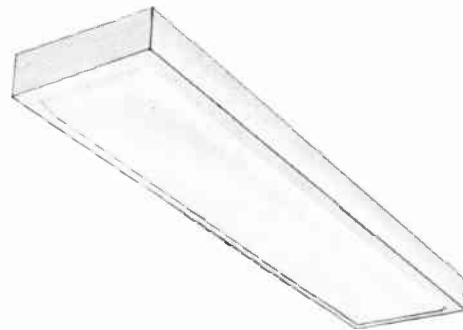
Diamond pattern clear lens plastic. Diffuser easily removed without tools. Socket assembly snaps out without removing fixture from mounting.

Cat. No.	No. of Lamps	Description	Each
Rapid Start With Styrene Refractors			
R-214	2-F40	4' Single	\$12.55
R-218-T	4-F40	8' Tandem	23.40
R-414	4-F40	4' Single	22.55
Rapid Start With Acrylic Refractors			
R-214-AA	2-F40	4' Single	15.55
R-218-T-AA	4-F40	8' Tandem	30.55
R-414-AA	4-F40	4' Single	25.55

Accessories

11	On ceiling outlet box cover assembly.....	.50
14	Single stem and canopy assembly (6").....	.90
24	Single stem and canopy assembly (20").....	1.15
35-183X	Styrene replacement refractor.....	1.75
35-186X	Acrylic replacement refractor.....	4.10

WAKEFIELD PANELMETRIC ON-SURFACE LUMINAIRES



Panelmetric luminaires are available in six sizes—in 1, 2, and 4 foot widths, and with solid steel sides, and in a wide variety of shielding media.

All units are modular and shallow. All the frame and diffuser assemblies are interchangeable with Wakefield troffers, permitting standardization advantages for purposes of appearance and maintenance.

Hinges are completely invisible and may be inserted on either side of the unit. The entire frame assembly can be disconnected for easy cleaning and will not fall when swinging free. An inconspicuous cam-lever lock holds the frame in place. The frame and reflector construction form a positive light seal. All electrical components, ballasts, sockets and wires carry UL/CSA labels.

Specifying points for architects and engineers: All units are modular, 20 gauge steel construction. Framed diffuser assembly hinges from either side and is interchangeable with recessed troffers. CBM listed ballasts are standard.

Body depth—3 3/4".

With Rigid-Arch .060 Styrene Diffuser Rapid Start

Cat. No.	No. of Lamps	Description	Each
PSR-214	2-F40	1 x 4 Solid Steel Sides	\$34.20
PSR-218-T	4-F40	1 x 8* Solid Steel Sides	65.00
PST-422	4-20TS	2 x 2** Solid Steel Sides	54.00
PSR-424	4-F40	2 x 4 Solid Steel Sides	53.35
PSR-428-T	8-F40	2 x 8* Solid Steel Sides	111.70

.080 Styrene Diffuser

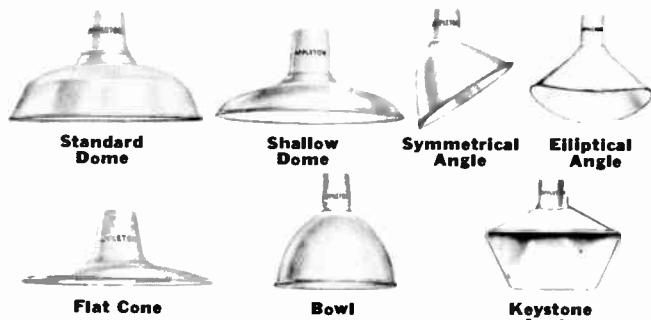
PSR-644	6-F40	4 x 4 Solid Steel Sides	105.00
PSR-844	8-F40	Solid Steel Sides	116.70

*Tandem. **Trigger Start.

For other shields add the following suffix to the Cat. No.:

- MM—Aluminum Louver, 45° x 45°
- LL—Molded Styrene Louver 45° x 45°.
- BB—#70 Corning Glass.
- AA—Acrylic Diffuser.
- RR—Clear Styrene Lens.

APPLETON LIGHTING FIXTURES
INDUSTRIAL INCANDESCENT UNITS
REFLECTOR TYPES



DISKONECT® SERIES—COMPLETE UNITS—REFLECTORS, HOODS & SOCKETS

WITH PENDANT HOOD TAPPING 1/2"		OUTLET BOX HOOD FOR 4" OCTAGON BOX		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-53212	G-53212	G-53512	G-53512	100	12"	10	252	\$ 8.80
G-53214	G-53214	G-53514	G-53514	150	14"	10	318	9.50
G-53216	G-53216	G-53516	G-53516	200	16"	10	398	10.20
G-53218	G-53218	G-53518	G-53518	300-500	18"	5	756	12.85
G-53220	G-53220	G-53520	G-53520	750-1500	20"	5	891	16.60

STANDARD DOME*		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-73212	G-73512	100	12	10	208	8.60
G-73214	G-73514	150	14	10	253	9.60
G-73216	G-73516	200	16	10	320	10.20
G-73218	G-73518	300-500	18	5	545	12.85

SHALLOW DOME		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-93228	G-93528	100	8	10	155	8.10
G-93210	G-93510	150	10	10	250	9.50
G-93212	G-93512	200	12	5	363	10.10
G-93214	G-93514	300-500	14	5	510	11.95
G-93216	G-93516	750-1500	16	3	815	17.40

SYMMETRICAL ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-43228	G-43528	100	14x11	5	330	9.20
G-43229	G-43529	150	14x11	4	306	10.60
G-43230	G-43530	200	16x12	4	416	11.70
G-43232	G-43532	300-500	20x16	4	724	19.55

SEPRABLE SERIES—COMPLETE UNITS—REFLECTORS, HOODS & SOCKETS

STANDARD DOME		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-52212	G-52312	100	12	10	208	\$ 6.80
G-52214	G-52314	150	14	10	297	7.65
G-52216	G-52316	200	16	10	360	8.15
G-52218	.....	300-500	18	5	550	11.15
G-52220	.....	750-1500	20	5	807	14.50

FEED-THRU HOOD WITH SOCKET		OUTLET BOX HOOD WITH SOCKET		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-52412	G-52512	G-52512	G-52512	100	12	10	208	Prices stated
G-52414	G-52514	G-52514	G-52514	150	14	10	297	after
G-52416	G-52516	G-52516	G-52516	200	16	10	360	cat.
.....	G-52518	G-52518	G-52518	300-500	18	5	550	listings
.....	G-52520	G-52520	G-52520	750-1500	20	5	807	at left

PENDANT HOOD		RIGHT ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-72212	G-72312	G-72312	G-72312	100	12	10	185	\$ 7.60
G-72214	G-72314	G-72314	G-72314	150	14	10	215	8.35
G-72216	G-72316	G-72316	G-72316	200	16	10	290	8.95
G-72218	.....	.....	.....	300-500	18	5	500	11.25

FEED-THRU		OUTLET BOX		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-72412	G-72512	G-72512	G-72512	100	12	10	185	Prices stated
G-72414	G-72514	G-72514	G-72514	150	14	10	215	after
G-72416	G-72516	G-72516	G-72516	200	16	10	290	listings
.....	G-72518	G-72518	G-72518	300-500	18	5	500	at left

*Ventilated fixture available in Standard Dome. Only. Add suffix "V" same price.

30% discount for less than standard package.
35% discount for 1 or more than standard package.

APPLETON LIGHTING FIXTURES
INDUSTRIAL INCANDESCENT UNITS
SEPRABLE SERIES—COMPLETE UNITS—Continued
FLAT CONE

PENDANT HOOD	RIGHT ANGLE	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-82214	G-82314	100	14	10	250	\$ 7.60
G-82216	G-82316	150	16	10	283	8.65
G-82218	G-82318	200	18	5	407	9.90

FEED-THRU	OUTLET BOX	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-82414	G-82514	100	14	10	250	Prices Stated
G-82416	G-82516	150	16	10	283	After
G-82418	G-82518	200	18	5	407	Cat. Listings at Left

BOWL		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-62208	G-62308	100	8	5	190	\$ 6.30
G-62210	G-62310	200	10	5	245	7.15
G-62212	.....	300-500	12	5	345	10.40
G-62216	.....	750-1500	16	4	741	14.10

FEED-THRU	OUTLET BOX	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-62408	G-62508	100	8	5	190	Prices Stated
G-62410	G-62510	200	10	5	245	After
.....	G-62512	300-500	12	5	345	Cat. Listings at Left
.....	G-62516	750-1500	16	4	741	

SYMMETRICAL ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-92208	G-92308	100	8	10	140	\$ 6.40
G-92210	G-92310	150	10	10	217	7.15
G-92212	G-92312	200	12	5	331	9.90
G-92214	.....	300-500	14	5	470	11.80
G-92216	.....	750-1500	16	3	795	14.15

FEED-THRU	OUTLET BOX	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-92408	G-92508	100	8	10	140	Prices Stated
G-92410	G-92510	150	10	10	217	After
G-92412	G-92512	200	12	5	331	Cat. Listings at Left
.....	G-92514	300-500	14	5	470	
.....	G-92516	750-1500	16	3	795	

ELLIPTICAL ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-42228	G-42328	100	14 x 11	5	305	\$ 7.15
G-42229	G-42329	150	14 x 11	4	300	8.70
G-42230	G-42330	200	16 x 12	4	350	9.90

FEED-THRU	OUTLET BOX	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-42428	G-42528	100	14 x 11	5	305	\$ 7.15
G-42429	G-42529	150	14 x 11	4	300	8.70
G-42430	G-42530	200	16 x 12	4	350	9.90

KEYSTONE ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-32228	G-32328	100	5 1/16	10	150	\$ 6.40
G-32229	G-32329	150	6 5/8	10	200	7.20
G-32230	G-32330	200	6 3/4	10	213	8.00

FEED-THRU	OUTLET BOX	Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-32428	G-32528	100	5 1/16	10	150	Prices Stated
G-32429	G-32529	150	6 5/8	10	200	After
G-32430	G-32530	200	6 3/4	10	213	Cat. Listings at Left

SOCKET SERIES—COMPLETE UNITS—REFLECTORS & HOODS

STANDARD DOME*		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-50212	G-50212	100	12	10	245	\$ 6.80
G-50214	G-50214	150	14	10	300	7.65
G-50216	G-50216	200	16	10	395	8.25
G-50218	G-50218	300-500	18	5	570	10.80
G-50220	G-50220	750-1500	20	5	840	14.55

SHALLOW DOME		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-70212	G-70212	100	12	10	203	\$ 6.80
G-70214	G-70214	150	14	10	245	7.65
G-70216	G-70216	200	16	10	310	8.30
G-70218	G-70218	500	18	5	500	10.85

SYMMETRICAL ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-90228	G-90228	100	8	10	150	\$ 6.30
G-90210	G-90210	150	10	5	223	8.80
G-90212	G-90212	200	12	5	356	9.80
G-90214	G-90214	300-500	14	5	460	11.40
G-90216	G-90216	750-1500	16	4	832	15.20

ELLIPTICAL ANGLE		Lamp Size	Dia.	Std. Pkg.	Ref. Only Wt. #100	List Price
G-40228	G-40228	100	14 x 11	5	315	\$ 7.50
G-40229	G-40229	150	14 x 11	4	325	8.70
G-40230	G-40230	200	16 x 12	4	356	9.80
G-40232	G-40232	300-500	20 x 15	4	682	17.75

30% discount for less than standard package.
35% discount for 1 or more than standard package.

APPLETON LIGHTING FIXTURES
INDUSTRIAL INCANDESCENT UNITS
HEAVYDUTY SERIES—COMPLETE UNITS—HOODS & SOCKETS
REFLECTOR TYPES



STANDARD		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-56212	\$ 8.30	G-56512	\$ 8.25	100	12	10	235
G-56214	9.00	G-56514	8.95	150	14	10	293
G-56216	9.75	G-56516	9.70	200	16	10	377
G-56218	12.00	G-56518	12.00	300-500	18	5	440
G-56220	15.80	G-56520	15.80	750-1500	20	5	763

STANDARD		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-76212	8.70	G-76512	8.65	100	12	10	190
G-76214	9.10	G-76514	9.05	150	14	10	262
G-76216	10.10	G-76516	10.05	200	16	10	303
G-76218	12.75	G-76518	12.75	300-500	18	5	480

STANDARD		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-66210	8.60	G-66510	8.55	200	10	10	250
G-66212	11.80	G-66512	11.80	300-500	12	5	325
G-66216	14.30	G-66516	14.30	750-1500	16	5	715



STANDARD DOME		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-56812	\$ 9.35	G-56912	\$ 9.50	100	12	10	235
G-56814	10.05	G-56914	10.20	150	14	10	293
G-56816	10.80	G-56916	10.95	200	16	10	377
G-56818	13.05	G-56918	13.25	300-500	18	5	440
G-56820	16.85	G-56920	17.05	750-1500	20	5	763

STANDARD DOME		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-76812	9.75	G-76912	9.90	100	12	10	190
G-76814	10.15	G-76914	10.30	150	14	10	262
G-76816	11.15	G-76916	11.30	200	16	10	303
G-76818	13.80	G-76918	14.00	300-500	18	5	480

STANDARD DOME		SHALLOW DOME		BOWL		SYMMETRICAL ANGLE	
Cat. No.	List Price	Cat. No.	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-66810	9.65	G-66910	9.80	200	10	10	250
G-66812	12.85	G-66912	13.05	300-500	12	5	325
G-66816	15.35	G-66916	15.55	750-1500	16	5	715

DISKONECT GLASSTEEL DIFFUSERS

Pendant Hood	Outlet Box Hood	Box Hood	Cat. No.	Size	Qty	Price
			G-23218	150-200	18 3	658 \$21.80
			G-23220	300-500	20 3	866 28.35
			G-23224	750-1000	24 3	1135 43.30

HEAVYDUTY GLASSTEEL DIFFUSERS

Cat. No.	Size	Qty	Price
G-26618	100-200	18 3	20.10
G-26620	300-500	20 3	26.70

White diffusing globes must be ordered separately.

WHITE DIFFUSING GLOBES ONLY FOR GLASSTEEL DIFFUSERS

Cat. No.	Description	Qty	Price
G-2610	Fits 18" Reflectors, Width 10", Depth 6 3/4"	4	284 \$ 5.90
G-2612	Fits 20" Reflectors, Width 12", Depth 8 3/8"	4	418 7.95
G-2616	Fits 24" Reflectors, Width 16", Depth 9 7/8"	2	900 15.60

30% discount for less than standard package.
35% discount for 1 or more than standard package.

APPLETON LIGHTING FIXTURES
INDUSTRIAL INCANDESCENT UNITS
SHADE HOLDER REFLECTORS
(Neck is for standard 2 1/4" Shade Holders.)

STANDARD DOME		SHALLOW DOME		FLAT CONE	
Cat. No.	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100	List Price
G-55012	60-100	12	10	120	4.70
G-55014	150	14	10	168	5.20
G-55016	200	16	10	245	5.70

SHALLOW DOME		FLAT CONE			
Cat. No.	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100	List Price
G-75010	60	10	10	120	4.70
G-75012	100	12	10	168	5.20
G-75014	150	14	10	245	5.70
G-75016	200	16	10	320	6.20

FLAT CONE					
Cat. No.	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100	List Price
G-85012	60-100	12	10	145	3.15
G-85014	150	14	10	230	4.15
G-85016	200	16	10	240	5.00

2 1/4" SHADE HOLDERS FOR REFLECTORS—ABOVE

Cat. No.	Description	Std. Pkg.	Wt. # 100	List Price
G-124	For Brass Shell Socket	10	7	\$.85
G-125	For Porcelain Socket	10	12	1.00

OUTLET-BOX REFLECTORS AND COMPLETE UNITS WITH OUTLET BOX COVER AND SOCKET

STANDARD	SHALLOW	List Price	Lamp Size	Dia. In.	Std. Pkg.	Wt. # 100
G-54512	G-74512	\$6.15	60-100	12	10	230
G-54514	G-74514	6.85	150	14	10	295
G-54516	G-74516	7.65	200	16	10	360

CLEAR GLASS GLASTITE PROTECTORS*

Cat. No.	Description	Std. Pkg.	Wt. # 100	List Price
G-1348	Fits 8" reflector	5	105	\$ 4.40
G-1350	Fits 10" reflector	5	160	5.05
G-1352	Fits 12" reflector	5	185	6.00
G-1354	Fits 14" reflector	5	300	7.20
G-1356	Fits 16" reflector	5	380	9.05
G-1358	Fits 18" reflector	5	480	10.15
G-1360	Fits 20" reflector	5	440	13.05
G-1364	Fits 24" reflector	5	800	19.60

Furnished with Aluminum Band and Gasket

*Also available: Heat & Impact-resisting Glastite Protectors.

CLEAR SHATTERPROOF PLASTIC PROTECTORS

G-4356P	Fits 16" reflector	\$15.76	G-4358P	Fits 18" reflector	\$18.40
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DEEP—HEAVY DUTY WIRE GUARDS

For use with reflectors equipped with glass globe or lamp projecting below the bead of the reflector.

Cat. No.	Dia. In.	Std. Pkg.	Wt. # 100	List Price
G-1314	14	10	125	\$ 5.40
G-1316	16	10	140	5.80
G-1318	18	10	160	7.00
G-1320	20	10	200	7.80
G-1324	24	10	240	9.65

SHALLOW GUARDS WITH HAND HOLE FOR LAMP REPLACEMENT

Where lamp or glass globe does not project below bead of reflector.

Cat. No.	Dia. In.	Std. Pkg.	Wt. # 100	List Price
G-1412	12	10	80	\$ 6.25
G-1414	14	10	100	6.70
G-1416	16	10	115	7.40
G-1418	18	10	140	7.90
G-1420	20	10	150	9.15

HIGH BAY ACCESSORIES
TWIN MOUNTING CHANNELS FOR 18" DIAMETER REFLECTORS

Cat. No.	Cat. No.	Dist. Btwn. Centers	Ht.	Length	Std. Pkg.	Wt. # 100	List Price
G-668	G-669	19 1/16"	2"	23"	10	390	\$9.15

GLASS COVER ASSEMBLIES FOR 18" DIAMETER REFLECTORS

Cat. No.	Description	Std. Pkg.	Wt. # 100	List Price
G-7118	Std. Dbl. Strength Clear Convex Glass	1	560	\$14.00
G-7218	Heat and Impact-resistant Flat Glass	1	925	26.60

30% discount for less than standard package.
35% discount for 1 or more than standard package.

APPLETON LIGHTING FIXTURES
HIGH BAY LIGHTING—INCANDESCENT—Complete Units REFLECTORS



ALZAK ALUMINUM

G-60235-V

DISKONNECT WITH PENDANT HOOD TAPPING 1/2"†



ALL-WHITE PORCELAIN ENAMELED

G-60261-V

SOCKET TYPE WITH RIGID SOCKET TAPPING 1/2"†

ETCHED ALZAK* ALUMINUM

SPREADING DISTRIBUTION

Cat. No.	List Price	Cat. No.	List Price	Wt.-Lbs. Each	DIMENSIONS Ht.	Dia.	Lamp Size
G-63231-V	\$20.85	G-60231-V	\$18.90	7	13 5/8	14	300-500
G-63270-V	24.75	G-60270-V	22.75	12	16 1/2	16	750-1500
G-63271-V	29.30	G-60271-V	27.40	12	18 3/8	18	750-1500

CONCENTRATING DISTRIBUTION

G-63235-V	\$24.75	G-60235-V	\$22.75	8	15 5/8	16	300-500
G-63275-V	29.30	G-60275-V	27.40	8	19 1/4	18	750-1500

ALL WHITE PORCELAIN ENAMELED

SPREADING DISTRIBUTION

G-63261-V	\$26.25	G-60261-V	\$25.00	17	19	18	750-1500
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FOR USE WITH R52 REFLECTOR LAMPS (NOT FURNISHED)



Description	Cat. No.	List Price	Wt.-Lbs. Each	DIMEN. Ht.	Dia.	Lamp Size
Less Rain Shield	G-60910-V	\$7.40	4	12 1/2	10	500-750
With Rain Shield	G-60910-VRS	8.30	5	12 5/16	10	500-750

†Wt Tap 3/4" when specified. Add suffix 3/4" to Cat. No. Same price.

G-60910-VRS

INDUSTRIALITE VAPORTIGHT

Complete Units

Designed to withstand severe humidity, smoke or dust conditions. Enclosed and gasketed. Has cast aluminum socket hood and clear heat- and impact-resisting convex glass cover. 1/2" tapping is standard. Available with 3/4" tapping.

Incandescent Alzak* Aluminum Units

Spreading Distribution

Cat. No.	Dia. In.	Ht. In.	Watts	Wt. Each	List Price
G-36275	14	16	300-500	13	\$51.80
G-36277	18	18 1/4	750-1500	18	57.80

Concentrating Distribution

G-36274	14	17	300-500	13	\$55.30
G-36276	18	20	750-1500	17	61.25

Mercury Vapor Alzak* Aluminum Units

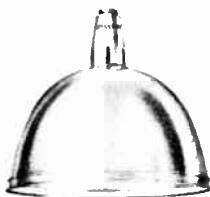
For use with BT-37, 400W. MV lamps

G-36275M	14	17	400 MV	13	51.80
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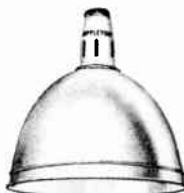
HIGH BAY MERCURY VAPOR LAMPS

Complete Units

Diskonect hoods are steel, cadmium finish. Socket Hoods have aluminum parts. Assembly numbers below include reflector, socket, socket nut or hood. All fixtures have easy to wire U.L. approved sockets. Glass covers are available. Complete line of indoor and outdoor ballasts are available; write for information.



G-60925-V



G-60281-V

Etched Alzak* Aluminum Units

Spreading Distribution

DIS-KONECT	List Price	SOCKET	List Price	Lamp Size	DIMENSIONS Ht.	Dia.	Wt.-Lbs. Each
G-63291-V	\$29.30	G-60291-V	\$27.40	400	17 5/8	18	12
G-63923-V	40.85	G-60923-V	38.85	1000	18 3/8	22	14
G-63924-V	49.90	G-60924-V	47.85	1000	21 1/4	24	16

Concentrating Distribution

G-63295-V	29.30	G-60295-V	27.40	400	16 1/8	18	11
.....	.....	G-60922-V	40.85	1000	20	22	14
G-63925-V	59.00	G-60925-V	57.50	1000	21 1/4	24	16

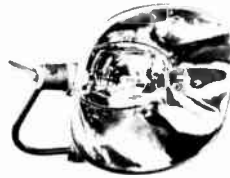
All White Porcelain Enameled Steel

Spreading Distribution

G-63281-V	18.35	G-60281-V	16.45	400	16 1/4	18	16
.....	.....	G-60824-V	27.00	1000	19 1/16	24	14

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR 1 OR MORE THAN STANDARD PACKAGE

APPLETON DAY-ARC ALUMINUM FLOODLIGHTS



DAY-ARC 1000 (Less Ballast)

U. S. Pat. No. 3,149,785
Can. Pat. No. 684,120

The Appleton DAY-ARC floodlights have been specifically developed for use with the new metallic vapor lamps. The unique feature of these floodlights is the reflector, which has been designed around the physical dimensions of the arc stream itself! They are equally suitable for standard clear or color-improved mercury vapor lamps.

DAY-ARC 1000® FLOODLIGHTS

Cat. No.	Cat. No.	Std. Pkg.	Wt.-Lbs. Each	List Price
MED. BEAM	WIDE BEAM			
G-4100	G-4101	1	28	\$166.70



Std. Pkg. 1 Wt. Each 30

IN-HEAD BALLASTS FOR DAY-ARC 1000

In-head ballasts for metallic vapor and mercury vapor lamps. High power factor, constant wattage and reactor types are available. Built-in horizontal pivot seat with degree markings. Large hinged lid permits access to wiring. Housing is cast aluminum, finished in gray hammer-tone baked enamel.

FOR METALLIC VAPOR LAMPS (High power factor)

Line Voltage	Cat. No.	List Price Each
120	G-4135	\$195.00
208	G-4137	183.90
240	G-4139	183.90
277	G-4140	183.90
480	G-4141	183.90

FOR MERCURY VAPOR LAMPS (Reactor)

Cat. No.	List Price Each	Cat. No.	List Price Each
G-4120	\$145.00	G-4121	145.00
G-4122	145.00	G-4123	145.00
G-4124	145.00	480 (G-4126 (HPF)	\$100.00
		(G-4128 (LPF)	96.00

DAY-ARC 400® FLOODLIGHTS



DAY-ARC 400 (Less Ballast)

Lenses are of heat and impact-resistant glass, silicone gasketed. Special in-head ballast designed to match floodlight lines available. Finished in gray hammertone baked enamel.

Cat. No.	BEAM	LT. LENS	Std. Pkg.	Wt.-Lbs. Each	List Price
G-4400	Medium	Lt. Stippled	1	24	\$85.00
G-4402	Wide	Clear	1	24	85.00

DAY-ARC 400 IN-HEAD BALLAST†

Reactor Type Mercury Vapor

Cat. No.	Volts	Wt.-Lbs. Each	Std. Pkg.	Price Each
HPF G-4427	240	27	1	\$77.60
NPF G-4429	240	27	1	55.10
HPF G-4431	277	27	1	77.60

400W Lead Type (HPF) Metallic Vapor

Cat. No.	Volts	Weight Net	Ship.	List Price	Cat. No.	Volts	Weight Each	List Price	Std. Pkg.
G-4428	120	27	28	\$108.34	G-4433	277	27	\$108.34	1
G-4432	240	27	28	108.34	G-4434	480	27	108.34	1

400W Constant Wattage Mercury Vapor

G-4420	120	27	28	\$ 85.94	G-4425	277	27	\$ 85.94	1
G-4424	240	27	28	85.94	G-4426	480	27	85.94	1

†U. S. Pat. No. 3,149,785. Canadian Pat. No. 684,120.

DAY-ARC ACCESSORIES

POLE-TOP ADAPTER FOR IN-HEAD BALLASTS—Specifically designed for mounting Day-Arc 1000 or Day-Arc 400 in-head ballasts or for mounting Day-Arc 1000 floodlight only when G-4145 Swivel Adapter Cap is used. Fastens on 2" to 2 1/2" dia. iron pipe. Screws and bolts supplied.



G-4440



G-4145



G-4146



G-4147

Cat. No.	Std. Pkg.	Wt. # 100	Price Each
G-4440	3	3	\$10.00

SWIVEL ADAPTER CAP—For 1000 Watt only. Fits G-4440 Adapter or may be used on a cross-arm bracket (or flat surface).
G-4145 1 1/2 2 6.00

THREE-WAY WALL-MOUNTING BRACKET

For 400W. and 1000W. Use (1) with G-4440 Pole-Top Adapter for mounting Day-Arc 1000 Floodlight and in-head ballast together; (2) with G-4440 and G-4145 Swivel Adapter Cap for mounting floodlight only; or (3) with G-6310 Pole-Top Adapter and G-4147 Floodlight Bracket for mounting floodlight and round can ballast together.

G-4146 3 1 22.00

FLOODLIGHT BRACKET FOR G-6310 ADAPTER—For 1000W. only. 180° positioning scale. Bracket fastens directly to side of G-6310 Adapter. (See additional Floodlighting accessories listed after Intenso Series.)

G-4147 2 1/2 6.00

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR 1 OR MORE THAN STANDARD PACKAGE

APPLETON FLOODLIGHTING FIXTURES

APPLETON INTENSO® QUARTZLITE 1500®



For indoor or outdoor floodlighting, pressure cast aluminum housing is deeply finned for maximum heat dissipation. Has "heat sinks" to encase lamp sockets for lower operating temperatures. Alzak® aluminum reflector available in three beam spreads. May be relamped from front or rear. Three types of mounting available.

U. S. Pat. No. 3,213,270.

QUARTZLITE 1500® FOR USE WITH QUARTZ IODINE LAMPS



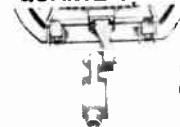
Cat. No.	Cat. No.	Cat. No.	Std. Pkg.	Wt.-Lbs. Each	Price Each
Narrow Beam	Medium Beam	Wide Beam			
G-6045-1	G-6045-3	G-6045-5	1	12	\$50.83

QUARTZLITE 1500® WITH SWIVEL STUD MOUNTING KIT



Cat. No.	Cat. No.	Cat. No.	Std. Pkg.	Wt.-Lbs. Each	Price Each
Narrow Beam	Medium Beam	Wide Beam			
G-6035-1	G-6035-3	G-6035-5	1	11	\$50.83

QUARTZLITE 1500® SWIVEL JUNCTION MOUNTING KIT



Cat. No.	Hub Size In.	Cat. No.	Hub Size In.	Std. Pkg.	Wt.-Lbs. Each	Price Each
Medium Beam		Wide Beam				
G-3TN-3/4	3/4	G-5TN-3/4	3/4	1	14	\$52.83
G-3TN-1	1	G-5TN-1	1	1	14	52.83

*Furnished with 4, 2-conductor #14 AFS Cable. *Alzak is a proprietary term of Aluminum Company of America.

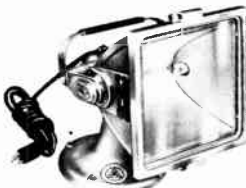
APPLETON INTENSO® QUARTZLITE 500

The "Quartzlite 500" permits lighting installations in large or small areas—compactly, easily, economically. Pat. Pending



Cat. No.	Beam Spread Horizontal x Vertical	Hub Size In.	Std. Pkg.	Wt. #	List Price
G-6000-1	Narrow 82.6° x 25.8°	3/4	1	700	\$35.84
G-6000-3	Medium 87.3° x 60°	3/4	1	700	35.84
G-6000-5	Wide 87.7° x 78.7°	3/4	1	700	35.84

PORTABLE INTENSO QUARTZLITE 500®



Has a stand, a carrying handle, cord and plug. Non-conductor insulated sleeve on handle. Malleable iron base insures balance. 6' of 3-cond. #18-3 Type SJO cable with watertight connector.

Cat. No.	Beam Spread Horizontal x Vertical	Std. Pkg.	Wt.-Lbs. Pkg.	List Price
G-6020	87.7° x 78.7°	1	11	\$55.59

INTENSO QUARTZLITE 500® ACCESSORIES

Aluminum Louver

Gives a more condensed light pattern. Useful where shielding is necessary. Aluminum louver can be easily mounted on glass cover.



Cat. No.	Description	Std. Pkg.	Wt.	List Price
G-6010	Black matte anodized aluminum	1	100	\$11.00

Malleable Iron Crossarm Mounting

180° positioning scale. Takes 14-2 AFS or SO cable (Not furnished). Weatherproof connection.



Cat. No.	Size	Description	Std. Pkg.	Wt.-Lbs. Per 100	List Price
G-1040	1/2" Hub	Cadmium Plated	1	200	\$ 5.00

Combination Pipe or Wall Mounting Bracket

For 1" or 2" pipe. Vertical or Horizontal mounting. Two bolts furnished to secure Crossarm G-1040.



Cat. No.	Std. Pkg.	Wt.	List Price
G-VB115	1	300	\$ 5.25

TYPE EF EXPLOSION-PROOF FLOODLIGHTS

150 Watt Incandescent: Class I, Groups C and D

300 Watt Incandescent: Class I, Group D

The Portable Unit has a 360° horizontal, 135° vertical adjustment. Sizes to .625" diameter available on request. The Permanent Base Unit has a 345° horizontal and a 135° vertical adjustment. LAMP DATA: Medium Base 150W Par-38 Projector or R-40 Reflector Spot or Floods; Medium Base 300W R-40 Reflector.



G-EFWB-30 PORTABLE



G-EFJB-30 PERMANENT BASE

Cat. No.	Size	Std./Pkg.	Wt./Each	Price Each
G-EFWB-30	.375 to .500 O.D.	1	20	\$107.50
G-EFJB-30	3/4" Conduit	1	15	117.50

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR ONE OR MORE THAN STANDARD PACKAGE

APPLETON FLOODLIGHTING FIXTURES

INTENSO® ECONOFLOOD FLOODLIGHTS

For Incandescent or Mercury Vapor Lamps

U. S. Pat. No. 3,149,785 Can. Pat. No. 684,120



G-6102-N ENCLOSED



G-6102-OPN OPEN

For low cost, high efficiency lighting in sports, commerce and industry. Aluminum. 180° vertical swivel permits relamping from front or rear. Weatherproof. 4 ft. of 2-cond. #14 AFS wire furnished.

OPEN MODELS

Cat. No.	Lamp Watts	Lamp Type	Beam Spread Horizontal x Vertical	NEMA Type	Wt. # Each	List Price
18" Diameter Specular Reflector						
G-6102-NOP	750-1500	PS-52	27° x 27°	2	17	\$41.65
G-6103-NOP	750-1500	PS-52	44° x 44°	3	17	41.65
18" Diameter Etched Reflector						
G-6104-NOP	750-1500	PS-52	61° x 59°	4	16	32.30
G-6105-NOP	750-1500	PS-52	100° x 100°	5	15	32.30

ENCLOSED MODELS

Cat. No.	Lamp Watts	Lamp Type	Beam Spread Horiz. x Vert.	NEMA Type	Wt. # Each	List Price
18" Diameter Specular Reflector						
G-6101-N**	1500	G-48	18° x 17.6°	1	24	61.45
G-6102-N	750-1500	PS-52	27° x 27°	2	24	61.45
G-6103-N	750-1500	PS-52	44° x 44°	3	23	61.45
G-6103N-4-MV	400 Merc.	BT-37	88° x 92°	5	24	61.45
18" Diameter Etched Reflector						
G-6104-N	750-1500	PS-52	61° x 59°	4	22	52.10
G-6105-N	750-1500	PS-52	100° x 100°	5	24	52.10

*Alzak is a proprietary term of Aluminum Company of America. **G-48 lamps are installed base down for proper operation.

INTENSO® SPORTOFLOOD FLOODLIGHTS

For Incandescent or Mercury Vapor Lamps



U. S. Pat. 3,149,785 Can. Pat. 684,120

Cat. No.	Lamps Watts	Lamp Type	Beam Spread Horiz. x Vert.	NEMA Type	Wt. # Each	List Price
20" Diameter Specular Reflector						
G-6201-N	1500	G-48**	14.9° x 13.1°	1	33	\$96.35
G-6202-N	750-1500	PS-52	25.3° x 22.7°	2	33	96.35
18" Diameter Specular Reflector						
G-6203	750-1500	PS-52	42.5° x 42°	3	31	84.75
18" Diameter Etched Reflector						
G-6204-N	750-1500	PS-52	60° x 60°	4	31	80.35
G-6205-N	750-1500	PS-52	84° x 86°	5	31	77.60

Cat. No.	Lamps Watts	Lamp Type	Beam Spread Horiz. x Vert.	NEMA Type	Wt. # Each	List Price
20" Diameter Specular Reflector						
G-6202N-10MV	1000 Merc.	BT-56	On request	2	33	\$96.35
18" Diameter Specular Reflector						
G-6203N-4MV	400 Merc.	BT-37	On request	...	31	84.75
G-6203N-10MV	1000 Merc.	BT-56	On request	3	31	84.75
18" Diameter Etched Reflector						
G-6205N-10MV	1000 Merc.	BT-56	113° x 116°	5	31	77.60

INTENSO® GENERALFLOOD FLOODLIGHTS

For Incandescent or Mercury Vapor Lamps

U. S. Pat. No. 3,149,785 Can. Pat. No. 684,120



G-6303-14 ENCLOSED



G-6303-14OPN OPEN

Exclusive Appleton self-centering dual reflector system. 230° Vertical Positioning Index. Set it—forget it! Unique—"Swing-over" design for easy cleaning or lamp replacement. Rugged, weatherproof construction throughout.

Cat. No.	Lamp Watts	Lamp Type	Dia. In.	Beam Spread Horiz. x Vert.	NEMA Type	Wt. # Each	List Price
ENCLOSED MODELS — Specular Reflector							
G-6303-14	300-500	PS-35-PS-40	14	41.5° x 41°	3	11	\$46.20
G-6303-16	750-1500	PS-52	16	42° x 43°	3	11	58.57
G-6303-14-25MV	250 M.V.	BT-28	14	.....	.....	11	46.20
G-6303-16-4MV	400 M.V.	BT-37	16	.....	.....	13	58.57
G-6303-16-7MV	700 M.V.	BT-46	16	.....	.....	13	58.57
ENCLOSED MODELS — Etched Reflector							
G-6305-14	300-500	PS-35-PS-40	14	100° x 110°	.....	11	41.83
G-6305-16	750-1500	PS-52	16	100° x 106°	.....	13	57.07
OPEN MODELS — Specular Reflector							
G-6303-14OP	300-500	PS-35-PS-40	14	41.5° x 41°	3	7	33.89
G-6303-16OP	750-1500	PS-52	16	42° x 43°	3	8	45.89
OPEN MODELS — Etched Reflector							
G-6305-14OP	300-500	PS-35-PS-40	14	100° x 110°	.....	7	29.39
G-6305-16OP	750-1500	PS-52	16	100° x 106°	.....	8	38.39

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR ONE OR MORE THAN STANDARD PACKAGE

BENJAMIN LIGHTING EQUIPMENT

HIGH BAY REFLECTOR UNITS

Listed by Underwriters' Laboratories, Inc.

SOCKET-REFLECTOR—with a standard separable "X"-type fitting and mogul base lampholder. Unit tapped 1/2" I. P. size standard, 3/4" when specified. (Cat. No. beginning with 5).

TURNLOX—weatherproof bayonet type construction permits removal of reflector and lamp from hood as a unit for easy maintenance. Includes mogul base lampholder. Pendant units (Cat. No. beginning with 7) tapped 1/2" I.P. size standard, 3/4" when specified. Ceiling unit (Cat. No. begins with 9) fits 3 1/4" or 4" octagonal outlet boxes.

Mercury vapor lamps will not operate on ordinary lighting circuits unless special transformer or reactor equipment is used. Lamp, wire, transformer, or reactor are not supplied.

PORCELAIN ENAMEL UNITS



No. V5317

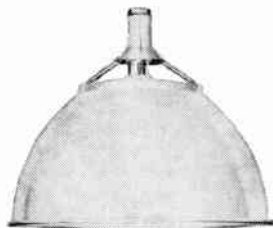
inside with a reflection factor of 85% or more. Steel neck bolts to the reflector.

Construction	Dia., In.	Hgt., In.	Cat. No.	Each
Spread Distribution All White				
For general interior lighting. Spacing - to - mounting-height ratio is 1.0; distribution is spread with both incandescent and mercury vapor lamps. Steel reflectors finished in lifetime porcelain enamel: white outside, white inside with a reflection factor of 85% or more. Steel neck bolts to the reflector.				
750-1500 Incandescent Lamps†				
Socket-Reflector	20	15 1/2	*V5480	\$16.45
Turnlox Pendant	20	17 1/4	*V7480	18.50
Turnlox Ceiling	20	16 3/8	V9480	18.50
400 Watt Mercury Vapor Lamps*				
Socket-Reflector	20	15 1/2	*V5481	16.45
Turnlox Pendant	20	17 1/4	*V7481	18.50
Turnlox Ceiling	20	16 3/8	V9481	18.50
1000 Watt Mercury Vapor Lamps*				
Socket-Reflector	24	20 3/4	*V5317	24.70
Turnlox Pendant	24	22 3/4	*V7317	26.75
Turnlox Ceiling	24	22 3/4	V9317	26.75

*For 3/4" tapped units, suffix catalog number with -3/4".
 †For shock-absorbing lampholder, suffix catalog number with -SHB and add \$0.24 to price.
 Distribution and Lamp Types:
 *Spread H33-ICD, H33-IGL/C, H33-IGL/W.
 †Spread H34-12GV, H36-15GV, H34-12GW/C, H36-15GW/C.

ALUMINUM 15% UP UNITS FOR MERCURY VAPOR LAMPS

Features exclusive die-cast aluminum socket cover and 18" or 24" Alzak aluminum reflector supported by rugged tubular aluminum legs.



Construction	Dia., In.	Hgt., In.	Cat. No.	Each
400 Watt Mercury Vapor Lamps†				
Socket-Reflector	18	14	*HA-5472	\$27.15
Turnlox Pendant	18	14	*HA-7472	29.20
Turnlox Ceiling	18	14	HA-9472	29.20
1000 Watt Mercury Vapor Lamps††				
Socket-Reflector	24	19 1/4	*HA-5458	43.30
Turnlox Pendant	24	19 1/4	*HA-7458	45.35
Turnlox Ceiling	24	19 1/4	HA-9458	45.35

*For 3/4" tapped units, suffix catalog number with -3/4".
 Distribution and Lamp Types:
 †Spread — H33-ICD, H33-IGL/C.
 ††Spread — H34-12GV, H36-15KY/C, H34-12GW/C.

HIGH BAY REFLECTOR UNITS

Listed by Underwriters' Laboratories, Inc.

ALUMINUM UNITS FOR MERCURY LAMPS



No. V5471

Highly Concentrating to Spread

For general interior lighting. Spacing-to-mounting-height ratio is as follows: Highly Conc.—up to 0.5; Concentrating—0.5-0.7; Medium spread—0.7-1.0; Spread—1.0-1.5; Wide Spread—over 1.5. Units are Alzak aluminum. A spun steel neck bolts to the reflector.

Construction	Dia., In.	Hgt., In.	Cat. No.	Each
400 Watt Mercury Vapor Lamps†				
Socket-Reflector	18	17	*V5471	\$26.20
Turnlox Pendant	18	18 3/4	*V7471	28.25
Turnlox Ceiling	18	18 3/8	V9471	28.25
400 Watt Mercury Vapor Lamps††				
Socket-Reflector	18	16 1/2	*V5265	26.20
Turnlox Pendant	18	17 3/4	*V7265	28.25
Turnlox Ceiling	18	17 1/2	V9265	28.25
1000 Watt Mercury Vapor Lamps*				
Socket-Reflector	24	20 5/8	*V5457	44.10
Turnlox Pendant	24	22 3/8	*V7457	45.15
Turnlox Ceiling	24	22	V9457	45.15

*For 3/4" tapped units, suffix catalog number with -3/4"
 Distribution and Lamp Types:
 †Concentrating — H400-E1, E-H1, H1LS; Medium Spread — H400-J1, J-H1, H1B/C; Spread — H400-RC1, H1LK/C.
 ††Spread — H400-E1, E-H1, H1LS, H400-J1, J-H1, H1B/C, H400-RC1, H1LK/C.
 *Concentrating — H1000-A12, A-H12-WD, H12KN, H1000-A15, A-H15-WD, H15GV; Spread — H1000-C12, C-H12-WD, H12KP/C, H1000-C15, B-H15-WD, H15GW/C.

6500 SERIES VAPOR-TIGHT PENDENT UNITS

Listed by Underwriters' Laboratories, Inc. as "Enclosed and Gasketed"

Suitable for heavy duty service in locations exposed to moisture or non-combustible dust. Cast aluminum, threaded hoods, acid-resisting porcelain enameled steel Dome Reflectors and glass globes. Units without Reflectors or with Bowl, Flat Cone or Symmetrical Angle Reflectors, as well as ceiling units, available. Reflectors are white inside.



No. 6502

Cat. No.*†	Lamp Watts	Dia., In.	Hgt., In.	Clear Globe	Each
With Dome Reflector					
6501	150	14	11 1/8	Plain	\$13.05
6501-HR	150	14	11 1/8	Heat-Res.	16.05
6502	200	16	11 1/8	Plain	14.60
6502-HR	200	16	11 1/8	Heat-Res.	17.60
6503	300	18	14 1/8	Plain	20.05
6503-HR	500	18	14 1/8	Heat-Res.	23.05
With Symmetrical Angle Reflector					
6518	150	12	14 1/8	Plain	14.00
6518-HR	200	12	14 1/8	Heat-Res.	17.00
6519	300	14	17 1/8	Plain	19.15
6519-HR	500	14	17 1/8	Heat-Res.	22.15

*For 3/4" tapped units, suffix catalog number with -3/4".
 †For shock-absorbing lampholder, suffix catalog number with -SHB and add \$0.24 to price.

BENJAMIN LIGHTING EQUIPMENT

TURNLOX REFLECTOR UNITS

Listed by Underwriters' Laboratories, Inc.



The Benjamin weatherproof TURNLOX construction allows the reflector and lampholder assembly to be removed from hood by only a quarter turn and taken down as a unit for servicing on the floor. Positive electrical and mechanical contact is assured by the engagement of the bayonet coupling in the terminal base. Any TURNLOX hood will take any medium or mogul base reflector assembly. Rigid, porcelain lampholder.

Reflectors are porcelain enamel steel; white outside, reflecting white inside. Pendant and angle hoods are tapped $\frac{1}{2}$ " I. P. size; ceiling hoods fit $3\frac{1}{4}$ " or 4" octagonal outlet boxes.

For unit with shock-absorbing lampholder, suffix catalog number with -SIB and add \$0.31; for medium base, pull-chain, suffix with -PUL and add \$1.35. For pendant or angle unit tapped $\frac{1}{4}$ " I.P. size, suffix catalog number with - $\frac{1}{4}$.

New All White Porcelain Finish

DOME



SHALLOW DOME



BOWL



SYMMETRICAL ANGLE



ELLIPTICAL ANGLE



Dome†

Lamp Watts	Dia., In.	Catalog Numbers			Std. Pkg.	Each
		Pendant Unit	Ceiling Unit	Angle Unit		
100	12	7641	9641	3641	10	\$ 8.65
150	14	7642	9642	3642	10	9.35
200	16	7643	9643	3643	10	10.00
300, 500	18	7644	9644	3644	5	12.65
750-1500	20	7645	9645	3645	5	16.30

Shallow Dome

100	12	7421	9421	3421	10	8.65
150	14	7423	9423	3423	10	9.35
200	16	7425	9425	3425	10	10.00
300, 500	18	7509	9509	3509	5	12.65

Bowl

100	8	7161	9161	3161	10	8.20
200	10	7169	9169	3169	10	9.05
300, 500	12	7173	9173	3173	5	12.30

Symmetrical Angle

100	8	7541	9541	3541	10	8.00
150	10	7542	9542	3542	10	8.95
200	12	7546	9546	3546	10	9.95
300, 500	14	7543	9543	3543	5	11.85

Elliptical Angle**

200	....	7526	9526	3526	10	11.55
300, 500	....	7537*	9537*	3537*	5	19.30

†For unit with vented neck, prefix catalog number with V.

*Tapped $\frac{1}{4}$ " standard; $\frac{1}{2}$ " when specified.

**Not available with special shockabsorbing lampholder.

TURNLOX HOODS

With Wiring Terminal Base

Listed by Underwriters' Laboratories, Inc.

1500 Watts—600 Volts



No. 7 Pendant



No. 9 Ceiling



No. 3 Angle

PENDENT HOODS—Tapped $\frac{1}{2}$ " I.P.S. Std.; for $\frac{3}{4}$ " tapping, same price, add suffix "- $\frac{3}{4}$."

CEILING HOODS—Fit $3\frac{1}{4}$ " or 4" Octagonal outlet boxes, also plaster covers with mounting holes on $2\frac{1}{4}$ " centers.

ANGLE HOODS—Both No. 3 and 3-R Hoods provide three reflector positions—120° apart. Use No. 3 Hood where angle reflector must face directly towards conduit; No. 3-R Hood where it is to face directly away. Hoods tapped $\frac{1}{2}$ " I.P.S. std.; for $\frac{3}{4}$ " tapping, same price, add suffix "- $\frac{3}{4}$ ".

Cat. No.	Type of Hood	Tapping I.P.S. In.	Std. Pkg.	Each
7	Pendant	$\frac{1}{2}$	10	\$2.15
9	Ceiling	....	10	2.15
3	Angle	$\frac{1}{2}$	10	2.15
3R	Angle	$\frac{1}{2}$	10	2.15

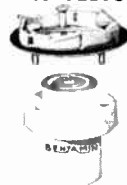
TURNLOX LAMP HOLDERS

Listed by Underwriters' Laboratories, Inc.

Assemblies consist of a porcelain lampholder and a "Turnlox" Bayonet attaching plate, with gaskets and screws for attachment.

KEYLESS RIGID MEDIUM BASE LAMP HOLDER

660 Watts — 600 Volts



Standard for "Turnlox" Reflectors with holders of this type. One-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Each
2751	Complete Assembly	10	\$1.95

KEYLESS RIGID MOGUL BASE LAMP HOLDERS

1500 Watts—600 Volts

Standard for "Turnlox" Reflectors with holders of this type Two-piece porcelain body.

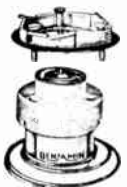
Cat. No.	Description	Std. Pkg.	Each
2760	Complete Assembly	10	\$2.80
2761*	Complete Assembly	10	2.80

*Std. on some Mercury Vapor Units.



SHOCK-ABSORBING MEDIUM BASE LAMP HOLDER

660 Watts—600 Volts



Lengthen lamp life by guarding the lamp filament against vibration, shocks and jars. One-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Each
2753†	Complete Assembly	10	\$2.25

SHOCK-ABSORBING MOGUL BASE LAMP HOLDER

1500 Watts—600 Volts

Lengthen lamp life by guarding the lamp filament against vibration, shocks and jars. Two-piece porcelain body.

Cat. No.	Description	Std. Pkg.	Each
2762†	Complete Assembly	10	\$3.15

†Not for use in Elliptical Angle Units.



BENJAMIN LIGHTING EQUIPMENT

SOCKET-REFLECTOR MEDIUM BASE LAMP HOLDERS

Listed by Underwriters' Laboratories, Inc.

KEYLESS TYPE



660 Watts—600 Volts
 No. 2366, Rigid Assembly (tapped 1/2" I.P.S.) is standard on most Benjamin medium base units with "X" type separable fittings, including: "SOCKET - REFLECTOR" type; "RR" type with Pendant Steel Hood. No. 2368 Rigid Assembly (tapped 3/4" I.P.S.) is optional for No. 2366.

No. 2371 Shock-Absorbing Assembly (tapped 1/2" I.P.S.) is optional equipment for No. 2366; No. 2373 Shock Absorbing Assembly (tapped 3/4" I.P.S.) is identical to No. 2371 except for tapping. Shock-Absorbing Assemblies cannot be used in Elliptical Angle Units.

All type 66 Sockets are designed for long life and easy installation. Wiring is extremely simple as the molded Bakelite cover is easily unscrewed for convenient access to heavy terminal screws. The lampholder need not be removed from the lower flange of the fitting when wiring. The single wire opening takes No. 12 or No. 10 wire. A unique finger type lamp grip is provided.

The "X" type fitting consists of a cast aluminum lower flange, a cast aluminum threaded cap and two gaskets.

Shock-absorbing Lampholders have a bronze shock-absorbing spring to counter-act vibration and prolong lamp life.

Cat. No.	Tapping I.P.S. In.	Description	Std. Pkg.	Each
Keyless Rigid				
2366	1/2	With "X" Type Fitting	10	\$2.15
2368	3/4	With "X" Type Fitting	10	2.15
Keyless Shock-Absorbing				
2371	1/2	With "X" Type Fitting	10	\$2.55
2373	3/4	With "X" Type Fitting	10	2.55

SOCKET-REFLECTOR MOGUL BASE LAMP HOLDERS

1500 Watts—600 Volts



No. 4657 Rigid Assembly (tapped 1/2" I.P.S.) is standard for the following Benjamin mogul base units: "SOCKET - REFLECTOR" type; Type "RR" with Pendant Steel Hoods. No. 4666 Rigid Assembly (tapped 3/4" I.P.S.) is standard for mogul base, Elliptical Angle "SOCKET - REFLECTOR" Units and optional for units using No. 4657. No. 4670 Shock-Absorbing

Assembly (tapped 1/2" I.P.S.) is optional for units using No. 4657. No. 4672 Shock-Absorbing Assembly (tapped 3/4" I.P.S.) is optional for units requiring 3/4" tapping. Shock-Absorbing Assemblies will not fit Elliptical Angle Units.

Lampholders are of 2-piece, porcelain construction with a finger-type lamp grip. Shock-Absorbing lampholders have a bronze shock-absorbing spring between the lampholder and fitting to counter-act vibration and prolong lamp life. The "X" type fitting consists of a cast aluminum lower flange, a cast aluminum threaded cap and two gaskets.

Cat. No.	Tapping I.P.S. In.	Description	Std. Pkg.	Each
Keyless Rigid				
4657	1/2	With "X" Type Fitting	10	\$2.90
4666	3/4	With "X" Type Fitting	10	2.90
Keyless Shock-Absorbing				
4670	1/2	With "X" Type Fitting	10	\$3.25
4672	3/4	With "X" Type Fitting	10	3.25

SOCKET-REFLECTOR UNITS

Listed by Underwriters' Laboratories, Inc.



Rugged, weatherproof-units of one-piece construction. "X" type threaded fitting allows reflector to be slipped up over conduit for access to easily wired lampholder. Bakelite cap nut on medium base lampholder is easily removable for access to binder screws.

Reflectors are porcelain enamel steel: white outside, reflecting white inside. Aluminum "X" fitting is tapped 1/2" I.P. size standard. Rigid, porcelain lampholder type.

For unit with shock-absorbing lampholder, suffix catalog number with -SHB and add \$.31; for medium base, pull-chain, suffix catalog number with -PUL and add \$1.35. For unit with 3/4" I.P. size tapping suffix catalog number with -3/4.

New All White Porcelain Finish



Lamp Watts	Dia. In.	Cat. No.	Std. Pkg.	Each
Dome†				
100	12	5641	10	\$ 6.70
150	14	5642	10	7.45
200	16	5643	10	8.10
300, 500	18	5644	5	10.60
750-1500	20	5645	5	14.40
Shallow Dome				
100	12	5421	10	6.70
150	14	5423	10	7.45
200	16	5425	10	8.10
300, 500	18	5509	5	10.60
Bowl				
100	8	6161	10	6.25
200	10	6169	10	7.15
300, 500	12	6173	5	10.25
750-1500	16	6177	5	12.65
Symmetrical Angle				
100	8	5541	10	6.05
150	10	5542	10	7.00
200	12	5546	10	8.00
300, 500	14	5543	5	9.85
Elliptical Angle**				
100	....	5522	10	7.00
150	....	5525	10	8.55
200	....	5526	10	9.60
300, 500	....	5537*	5	17.40
750-1500	....	5538*	2	19.30

†For unit with vented neck, prefix catalog number with V.

*Tapped 3/4" standard; 1/2" when specified.

**Not available with special shock-absorbing lampholder.

BENJAMIN LIGHTING EQUIPMENT

1800 SERIES REFLECTOR UNITS

Listed by Underwriters' Laboratories, Inc.



Reflector "snaps" into hood and is securely fastened with two adjusting screws on the side of the hood. Choice of 4 easily wired cast hoods that take any medium or mogul base lampholder. Reflectors are porcelain enamel; white outside, reflecting white inside. Units are weatherproof.

Pendent, feed-thru and angle units tapped 1/2" I.P. size. 3/4" when specified, ceiling hood fits 4" octagonal outlet boxes. Lampholders are porcelain.

New All White Porcelain Finish

DOME SHALLOW DOME SYMMETRICAL DOME



Lamp Watts	Dia., In.	Catalog Numbers			Std. Pkg.	Each
		Pendent Unit	Angle	Ceiling Unit		
Dome						
100	12	E1801	L1801	C1801	10	\$6.70
150	14	E1802	L1802	C1802	10	7.45
200	16	E1803	L1803	C1803	5	8.20
300, 500	20	E1804	L1804	C1804	5	10.70

Shallow Dome						
100	12	E1812	L1812	C1812	10	6.70
150	14	E1813	L1813	C1813	10	7.45
200	16	E1814	L1814	C1814	10	8.20

Symmetrical Angle						
100	12	E1822	L1822	C1822	10	5.20
150	14	E1823	L1823	C1823	10	5.50
200	16	E1824	L1824	C1824	10	7.80

Feed-Thru Units

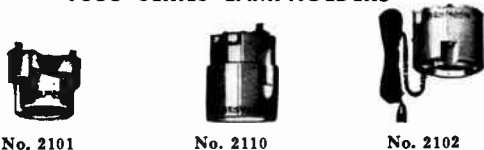
Lamp Watts	Dia., In.	Catalog Numbers			Std. Pkg.	Each
		Dome	Shallow Dome	Symm. Angle		
100	8	.....	.....	T1822	10	\$5.50
100	12	T1801	T1812	.....	10	7.10
150	10	.....	.....	T1823	10	5.95
150	14	T1802	T1813	.....	10	8.00
200	12	.....	.....	T1824	10	8.10
200	16	T1803	T1814	.....	10	8.65
300, 500	18	T1804	.....	.....	5	11.00

1800 SERIES HOODS



Cat. No.	Description	Std. Pkg.	Each
E-18	Pendent Hood	10	\$0.90
L-18	Angle Hood	10	.90
C-18	Ceiling Hood	10	.90
T-18	Feed-Thru Hood	10	1.20

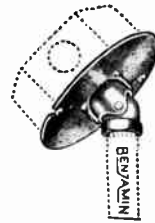
1800 SERIES LAMPHOLDERS



Cat. No.	Watts	Volts	Description	Std. Pkg.	Each
2101	600	600	Medium, Rigid	10	\$1.40
2110	1500	600	Mogul, Rigid	10	2.25
2102	250	250	Med., Pull-Chain	10	2.85

45° UNIVERSAL JOINT OUTLET BOX ALIGNER

Listed by Underwriters' Laboratories, Inc.



No. N3380

These fittings allow lighting units to hang plumb when suspended from outlet boxes mounted on sloping ceilings. They also provide a flexible suspension which will give under the glancing blows of ladders, etc. Nos. N-3380 and N-3381 are for standard 3 1/4" and 4-inch outlet boxes; No. N-3385 for standard 4-inch square outlet boxes.

Aligner consists of a steel pipe bushing which swings forward or back on two pivot studs joining it to a steel cup. Steel parts are finished aluminum paint applied over electro-plate.

Cat. No.	Fits	Size Tap'd In.	Std. Pkg.	Each
N-3380	3 1/4" and 4" Octagon Box	1/2	10	\$1.20
N-3381	3 1/4" and 4" Octagon Box	3/4	10	1.55
N-3385	4" Square Box.....	1/2	10	1.55

SHOCK-ABSORBING OUTLET BOX ALIGNER



No. 3366

Nos. 3366 and 3367 have shock absorbing feature and flexible knuckle, permitting unit to hang plumb. Fitting is supported by a cover of steel which fastens to standard 4-inch octagon boxes and Benjamin Type M junction Vapolets as listed. Finish is aluminum paint over electro-plate.

Medium weight springs are standard; for data on correct spring weight see canopy aligner above.

Cat. No.	Fits	Size Tap'd In.	Std. Pkg.	Each
3366	4" Octagon Box.....	1/2	10	\$1.80
3367	Type "M" Junction Vapolets	1/2	10	\$1.80

SHOCK-ABSORBING SUSPENSION FITTING



Cat. No.	Size Tap'd In.	Std. Pkg.	Each
6030	1/2	10	\$1.95

STRAIN RELIEF CORD GRIP



Serves as a strain relief and a cord bushing. Fits any lampholder tapped 1/2-inch.

Cat. No.	Accommodates Cord	Std. Pkg.	Each
1261	From 3/8" to 1 1/8" inc.....	10	\$0.45

WATERTIGHT STRAIN RELIEF CORD GRIP

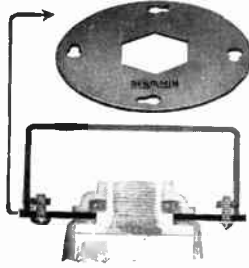


This fitting can be used both as a Strain Relief Cord Grip and as a Water-tight Cord Bushing for outdoor installations. Can be easily attached to any reflector fitting or hood that is tapped for 1/2-inch conduit entrance.

Cat. No.	Accommodates Cord	Std. Pkg.	Each
1263	From 3/8" to 1 1/8" inc.....	10	\$2.15

BENJAMIN LIGHTING EQUIPMENT

OUTLET BOX ADAPTER-COVER



No. 3622 is a steel outlet box cover for use with X Type Fittings, for attaching Benjamin Socket-Reflectors direct to the conduit box. The cover is placed between reflector and top flange, and is provided with four bayonet slots which slip over screws on box. No other fittings are necessary.

No. 3622 Cover
With X-type Fitting and Benjamin Socket-Reflector Attached to Outlet Box

Cat. No.	Fits	Std. Pkg.	Each
3622	4" Octagon Box.....	20	\$0.45

MECHANICS' SWIVEL ATTACHMENT PLUG

Listed by Underwriters' Laboratories, Inc.

660 Watts — 250 Volts

The chuck type bushing of this plug takes a firm grip on any of the standard portable cords $\frac{3}{4}$ to $\frac{1}{2}$ inch outside diameter. Attachment is made without kinking or turning cord because the swivel shell is the only part that rotates. This plug has large molded ring which can readily be grasped with a gloved hand.



It is adaptable for rough service such as found in railroad shops and yards, industrial plants, etc.

Cat. No.	Accommodates Cord	Std. Pkg.	Each
916	$\frac{3}{4}$ " to $\frac{1}{2}$ " inc.....	10	\$1.85

LAMPHOLDER EXTENSIONS AND REDUCERS

Listed by Underwriters' Laboratories, Inc.

MOGUL BASE LAMPHOLDER EXTENSION

1500 Watts — 600 Volts



With this device the lampholder is extended 2½ inches. It allows units designed for 750-1500 watt lamps to be used with the same character of distribution. Porcelain body.

Cat. No.	Description	Std. Pkg.	Each
4396	Lampholder Extension Only.....	10	\$2.25

MEDIUM BASE LAMPHOLDER EXTENSION

660 Watts—250 Volts

No. 91 permits the efficient use of 75, 100 and 150 watt lamps in reflectors designed for the next larger size lamp, by lowering the lamp $\frac{1}{8}$ inches. The bead on body also affords a means of attaching glassware to flush receptacles. Finish is bright brass lacquered.



Cat. No.	Description	Std. Pkg.	Each
91	Lampholder Extension Only.....	10	\$0.65

MOGUL TO MEDIUM LAMPHOLDER REDUCER

660 Watts—250 Volts



Reducer No. 98 is designed for adapting mogul screw base lampholders for use with medium screw base lamps. When attached, the center contact is lowered $\frac{1}{8}$ inch.

Cat. No.	Description	Std. Pkg.	Each
98	Lampholder Reducer Only.....	20	\$0.75

MERC-PACK MERCURY VAPOR UNITS



Mercury Ballast has built-in Turnlox hood. Reflectors with socket and lamps can be installed (or removed) by a quarter turn of reflector.

A quick conversion unit for existing outlets or new construction. Lighter in weight, easier to install, less expensive and more flexible.

Cat. No.	Dia., In.	Type Reflector	Each
400 Watt — 120 Volt* — H-33 Lamps			
HP-141-V490	12	Porc. Protector Bowl.....	\$57.55
HP-141-V491	16	Porc. Shielding Bowl.....	59.40
HP-141-V481	20	Porc. Spread Type.....	65.10
HP-141-V471	18	Aluminum	73.80
HP-141-V265	18	Alum. Spread Type.....	73.80
HP-141-472	18	Alum. 15% Up Type.....	74.80
1000 Watt — 120-240 Volt* — H-36-15 Lamps			
HP-111-V317	24	Porc. Spread Type.....	113.45
HP-111-V457	24	Alum. Spread Type.....	130.80
HP-111-458	24	Alum. 15% Up Type.....	130.30

*For 240/277 volt, change prefix to HP-142 on 400 watt units; for 1000 watt units, change prefix to HP-112.

LO-BAY MINI-MERC UNITS FOR MERCURY VAPOR LAMPS



Designed specifically for lo-bay industrial lighting. These units offer 30 times the lamp life — 50% less cost per footcandle and operate in high ambient applications up to 131° F.

Cat. No.	Dia., In.	Lamp Watts	Voltage	Each
High Power Factor Units — Less Hood				
HPH-21-V490	12	175	120	\$52.50
HPH-22-V490	12	175	277	52.50
HPH-24-V490	12	175	240	52.50
Low Power Factor Units — Less Hood				
HP-21-V490	12	175	120	35.00
HP-22-V490	12	175	277	35.00
HP-24-V490	12	175	240	35.00

Accessories

Cat. No.	Description	Each
7	Turnlox Pendent Hood (½" tapped*).....	\$2.15
9	Turnlox Ceiling Hood.....	2.15
1386	Wire Guard, Clamp Type.....	4.45

*For ¾" tapping, specify at same price.

BENJAMIN LIGHTING EQUIPMENT

EXPLOSION-PROOF UNITS

†Listed by Underwriters' Laboratories, Inc. for Class I, Groups C and D Hazardous Locations



No. 7512CX



No. 7512

Class 1, Group C locations are atmospheres containing ethyl-ether vapors, ethylene or cyclo-propane. Class 1, Group D locations are atmospheres containing gasoline hexane, naphtha, benzine, butane, propane, alcohol, acetone, benzol, lacquer solvent vapors or natural gas.

Units are designed to withstand the pressure of internal explosions without breaking down or permitting flame, gases or sparks to escape and ignite surrounding atmosphere.

Porcelain enameled steel reflectors attach to cast aluminum body and are held in place by an aluminum band. Inner auxiliary aluminum reflectors fit around lamp neck and prevent light loss.

Lampholder forms a barrier between globe and hood so that explosions originating in either place cannot be transmitted to other. Hoods have removable inspection plug.

Lampholder and globe have metal gaskets formed onto them. All joints are close fitting, deep flanged and threaded sufficiently to prevent escape of flame.

Hoods tapped 3/4" I.P.S. standard; 1/2" when specified. Reflectors are white outside, white inside.

PENDENT UNITS

Lamp Watts	Dia., In.	With Guard		Without Guard	
		Cat. No.	Each	Cat. No.	Each
Unit Without Reflector					
200-300*	.....	7502	\$37.45	7532	\$35.35
200-300**	.....	7504	53.50	7574	50.60
Unit With Dome Reflector					
100-150*	14	7512	43.60	7552	41.55
200-300**	16	7514	60.70	7554	57.80
Unit With Symmetrical Angle Reflector					
100-150*	12	7534	43.80	7564	41.75
200-300**	16	7536	61.00	7566	58.10

CEILING UNITS

Lamp Watts	Dia., In.	With Guard		Without Guard	
		Cat. No.	Each	Cat. No.	Each
Unit Without Reflector					
100-150*	....	7502CX	\$45.75	7532CX	\$43.70
200-300**	....	7504CX	61.90	7574CX	59.05
Unit With Dome Reflector					
100-150*	14	7512CX	51.95	7552CX	49.90
200-300**	16	7514CX	69.10	7554CX	66.25
Unit With Symmetrical Angle Reflector					
100-150*	12	7534CX	52.15	7564CX	50.10
200-300**	16	7536CX	69.45	7566CX	66.55

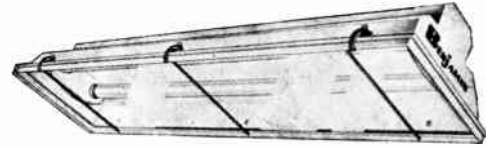
†Units are listed for installation in Group C locations for vertical position (with lamp base up); in Group D locations from vertical position (lamp base up) to horizontal.

*200-Watt A-25 lamps may be used in 150-Watt Explosion-Proof Units. In such instances, prefix 150-Watt catalog number with "N-"; special lampholder will be furnished at no extra cost.

**Medium Base Lamp.

BENJAMIN FLUORESCENT LIGHTING

TYPE II-G DUST-TITE SERIES



Corrosion-resistant construction: This series in addition to having a completely covered porcelain enameled housing, also utilizes the following special materials: Cover frame hardware is monel metal or stainless steel. The cover frame itself is finished in porcelain enamel. The lampholder casings are fabricated of monel metal.

Standard construction: The standard construction varies from the corrosion-resistant units in that the steel cover frame is finished in white baked paint enamel. The cover hardware is electroplated and the lampholder casing is white baked paint enamel over steel.

Mounting: Two gasketed cast-iron flanges mounted on 47 1/2" centers are tapped 1/2" IP size standard (3/4" tapping is available).

Description	2-Lamp Unit		3-Lamp Unit	
	Cat. No.	Each	Cat. No.	Each
48" Corrosion-Resistant Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FD-2124-4	\$82.00	FD-2134-4	\$95.10
800ma.RS	FD-2125-4	101.85	FD-2135-4	126.75
Cover Type: Clear Tempered Plate Glass				
40W.RS	FD-2224-4	101.30	FD-2234-4	114.35
800ma.RS	FD-2225-4	121.15	FD-2235-4	146.05
48" Standard Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FD-1124-4	71.45	FD-1134-4	82.30
800ma.RS	FD-1125-4	91.30	FD-1135-4	114.00
Cover Type: Clear Tempered Plate Glass				
40W.RS	FD-1224-4	90.75	FD-1234-4	101.60
800ma.RS	FD-1225-4	110.65	FD-1235-4	133.25

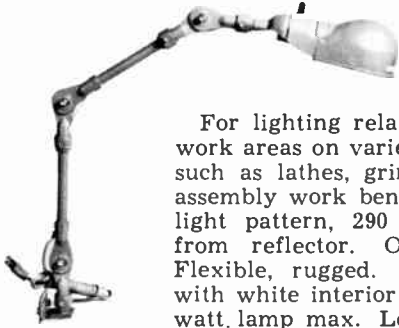
VAPOR-TITE SERIES

48" Corrosion-Resistant Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FV-2124-4	79.45	FV-2134-4	92.70
800ma.RS	FV-2125-4	99.00	FV-2135-4	123.90
Cover Type: Clear Tempered Plate Glass				
40W.RS	FV-2224-4	98.70	FV-2234-4	112.00
800ma.RS	FV-2225-4	118.30	FV-2235-4	143.00
Cover Type: Clear Acrylic Plastic				
40W.RS	FV-2324-4	99.00	FV-2334-4	102.30
800ma.RS	FV-2325-4	108.65	FV-2335-4	133.55
48" Standard Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FV-1124-4	68.90	FV-1134-4	79.90
800ma.RS	FV-1125-4	88.45	FV-1135-4	111.15
Cover Type: Clear Tempered Plate Glass				
40W.RS	FV-1224-4	88.15	FV-1234-4	99.20
800ma.RS	FV-1225-4	107.75	FV-1235-4	130.45
Cover Type: Clear Acrylic Plastic				
40W.RS	FV-1324-4	78.55	FV-1334-4	87.55
800ma.RS	FV-1325-4	98.10	FV-1335-4	120.80

ANGLE VAPOR-TITE SERIES

48" Corrosion-Resistant Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FV-4124-4	\$82.30	FV-4134-4	\$95.60
Cover Type: Clear Tempered Plate Glass				
40W.RS	FV-4224-4	101.20	FV-4234-4	114.40
Cover Type: Clear Acrylic Plastic				
40W.RS	FV-4324-4	91.65	FV-4334-4	104.70
48" Standard Units				
Cover Type: Clear Double Strength Glass				
40W.RS	FV-3124-4	71.50	FV-3134-4	82.60
Cover Type: Clear Tempered Plate Glass				
40W.RS	FV-3224-4	90.75	FV-3234-4	102.10
Cover Type: Clear Acrylic Plastic				
40W.RS	FV-3324-4	81.40	FV-3334-4	91.95

FOSTORIA LOCALITES



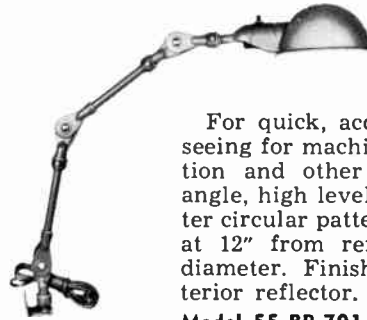
**MODEL
55-BH-701**

For lighting relatively small critical work areas on variety of machine tools such as lathes, grinders, drill presses, assembly work benches. Provides oval light pattern, 290 footcandles at 12" from reflector. Overall length 36". Flexible, rugged. Finish vista green with white interior reflector. Uses 100 watt lamp max. Levolver switch.

Model 55-BH-701, each\$13.45

Model 5 BH-701, same as above but 26" overall length, each\$11.15

Listed by Underwriters' Laboratories, Inc.



**MODEL
55-BP-701**

For quick, accurate and comfortable seeing for machinery, assembly, inspection and other tasks requiring wide angle, high level lighting in 24" diameter circular pattern with 300 footcandles at 12" from reflector. Reflector 6 7/8" diameter. Finish vista green, white interior reflector.

Model 55-BP-701, each\$14.35

Listed by Underwriters' Laboratories, Inc.

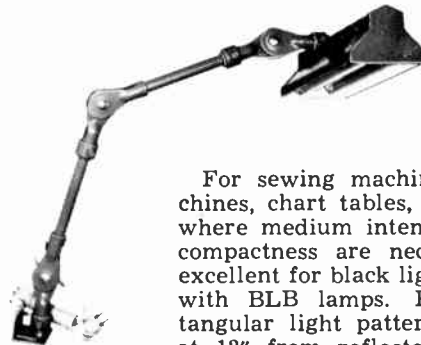


**MODEL
18-HX-400**

Lighting characteristics and reflector identical to model 55-BH-701. Different base and arms. Overall length 26 1/2". Flexible arm. Finish vista green.

Model 18-HX-400, each\$12.45

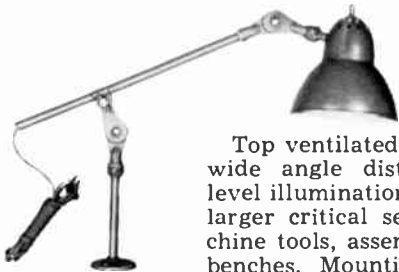
Listed by Underwriters' Laboratories, Inc.



**MODEL
55-F28M-701**

For sewing machines, business machines, chart tables, other small areas where medium intensity, coolness and compactness are necessary. Reflector excellent for black light when equipped with BLB lamps. Provides 18" rectangular light pattern 155 footcandles at 12" from reflector. Uses two T-5 eight watt fluorescent tubes. Finish vista green. Reflector interior reflective white.

Model 55-F28M-701, each\$23.85



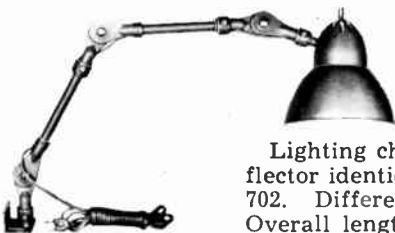
**MODEL
8-VCX-702**

Top ventilated, cool reflector with wide angle distribution and high level illumination. Recommended for larger critical seeing areas on machine tools, assembly and inspection benches. Mounting base 12 1/4" high. Horizontal arm 18" long. Provides

circular light pattern 28" in dia. 260 footcandles at 12" from reflector. Reflector dia. 6 7/8". Uses 100 watt lamps max. or R30 reflector lamp. Finish vista green with white interior reflector.

Model 8-VCX-702, each\$13.45

Listed by Underwriters' Laboratories, Inc.



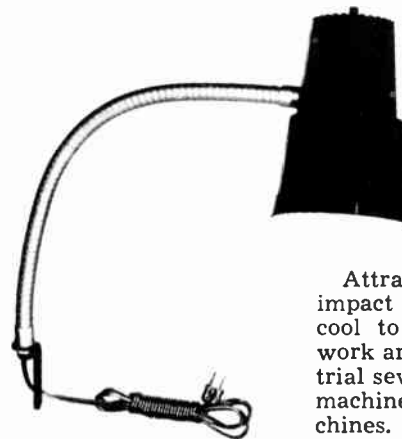
**MODEL
55-VCX-701**

Lighting characteristics and reflector identical to Model 8-VCX-702. Different base and arms. Overall length 31 3/4". Very flexible and rugged. Levolver switch.

Finish vista green, white interior reflector.

Model 55-VCX-701, each\$14.95

Listed by Underwriters' Laboratories, Inc.



**MODEL
29-R-901**

Attractively styled of high impact "Durez" plastic — cool to touch. For critical work area lighting on industrial sewing machines, small machine tools, office machines. Circular light pattern 20" dia. 150 footcandles 12" from reflector. Reflector

black with white interior. 15" flexible chrome plated arm. Uses 60 watt lamp max.

Model 29-R-901, each \$6.60

INNER SHIELD FOR VCX REFLECTORS



Provides extreme coolness when using 100 watt lamp. An accessory easily attached inside of VCX Ventilated Reflector. Made of aluminum with high mirror finish.

Model VCX Inner Reflector Shield..\$3.65

NYLON KOOLSHIELD FOR BH and HX REFLECTORS

Fits all old model as well as new model Localites with half shade reflector. Positive protection from hot reflector when using 100 watt lamp.

Nylon Koolshield\$1.25



FOSTORIA LOCALITES



**MODEL A
MAGNIFIER VIEWER**

Illuminated viewer combines quality, distribution-free magnification with independently controlled fluorescent lighting to give sharp, clear view of finest work details. 6" x 6" optically ground acrylic lens. Independent adjustment of lens and light. Uses two T-5 4-watt

fluorescent tubes. Two 10" adjustable arms. Finish hammerine silver enamel. Reflector interior reflective white.

Model A Magnifier, each\$60.00

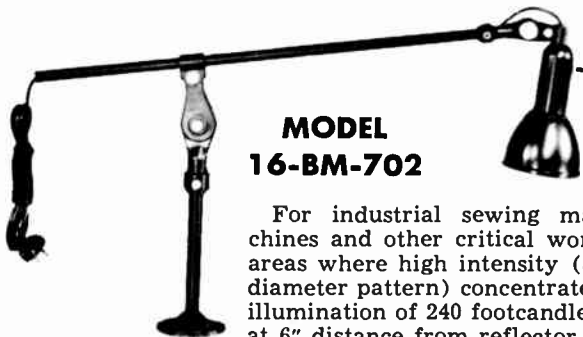


**MODEL D5
MAGNIFIER
VIEWER**

Lens and light same as model A Magnifier. Portable. Ideal for for sales counters, artists, dentists, physicians and industrial uses. Base has rubber

feet. Overall size 12" x 10" x 9" high.

Model D5 Magnifier, each\$53.25



**MODEL
16-BM-702**

For industrial sewing machines and other critical work areas where high intensity (8" diameter pattern) concentrated illumination of 240 footcandles, at 6" distance from reflector is required.

Mounting base 12 1/4" high. Horizontal arm 21" long. Reflector is high impact Durez plastic with inner reflector of alum. Reflector dia. 3 3/8". Uses T-8 25 watt double contact candelabra lamp. Also low voltage lamps. Finish, black.

Model 16-BM-702, each\$11.10



**MODEL
230-F**

Floating arm model for many uses in home, office and factory including drawing boards, desks, study lights for students. 7" dia. shade provides circular light pattern. Can be quickly and easily positioned and "stays put." Weighted table base 8 1/2" x 8 1/2". Extended length 30". Also available in 45" extended length. Other models with clamp bases. Finish pearl grey, black, tan, California White.

Model 230-F, each\$27.75



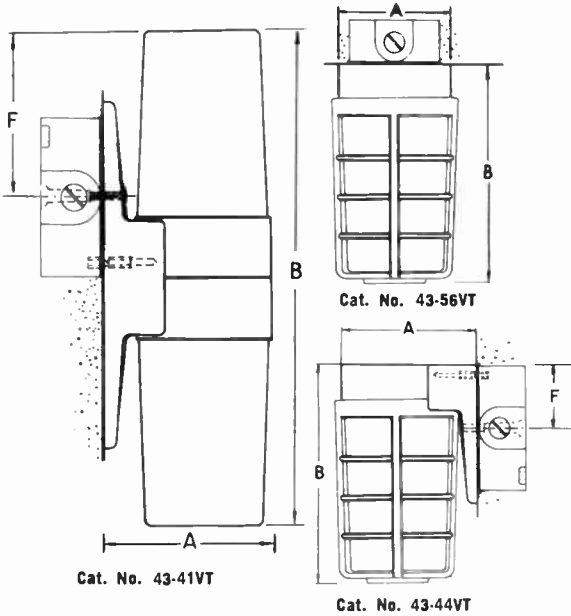
**MODEL
745**

Floating arm model for assembly minute parts, fine needlework, quality control inspection, delicate repairs. Combines light and 5" dia. precision ground lens. Magnifies 2, 3 or 4 diopter. Extended length 45". Also available in 30" extended length. Uses 22-watt circline fluorescent tube. Quickly and easily positioned. Clamp base. Finish pearl grey, black, tan, California white.

Model 745, each\$44.50

mcPhilben 43 LINE CEILING, WALL UNITS

ANODIZED CAST ALUMINUM — ENCLOSED AND GASKETED



WALL BRACKETS

CAT. NO.	Flush Mounted Cast Junction Box	Guard	A	B	F	Wattage	*Each
Single Units	P-4301A	4" NO	5-1/16	7 7/8	2 3/8	1-100W.	\$10.53
	P-4301A	4" NO	7	10	2 3/8	1-200W.	21.12
	P-4301A	4" YES	5-1/16	7 1/2	2 3/8	1-100W.	13.24
	P-4301A	4" YES	7	10 5/8	2 3/8	1-200W.	26.18
Duplex Units	P-4301A	4" NO	5-1/16	14 1/4	4 3/4	2-100W.	19.41
	P-4301A	4" NO	7	20	7 5/8	2-200W.	42.24

For ruby glass add letter "R" after Cat. No.
For clear glass add letter "C" after Cat. No.

CEILING, PENDANT UNITS

CAT. NO.	Flush Mounted Cast Junction Box	Cast Guard	A	B	Wattage	*Each
43-45VT	P-4301AC	4" NO	4-1/16	7 1/4	1-100W.	\$10.35
43-55VT	P-4301A	4" NO	5 3/4	10	1-200W.	19.29
43-46VT	P-4301AC	4" YES	4-1/16	7 5/8	1-100W.	13.35
43-56VT	P-4301A	4" YES	5 3/4	10 5/8	1-200W.	24.47

For ruby glass add letter "R" after Cat. No.
For clear glass add letter "C" after Cat. No.

PENDANT MOUNT . . . add "P" after Cat. No. Units supplied with tapped hole for 1/2" I.P.S. thread. Junction box and 1/2" rigid conduit supplied by others.

*Units furnished standard with cast aluminum vaportight junction box. If junction box is not required specify "less JB" and deduct \$1.59

mcPhilben EDGE-LIT DIRECTIONALS

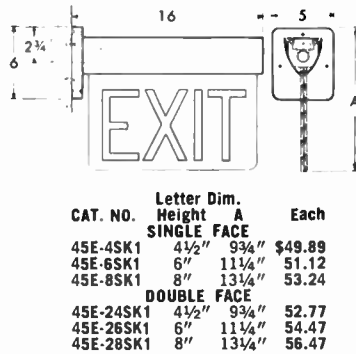
CAST ALUMINUM — POLISHED PLEXIGLAS PANELS

INCANDESCENT, FLUORESCENT — 10 YEARS OF LAMP LIFE WITH LAMP LIFE MULTIPLIER

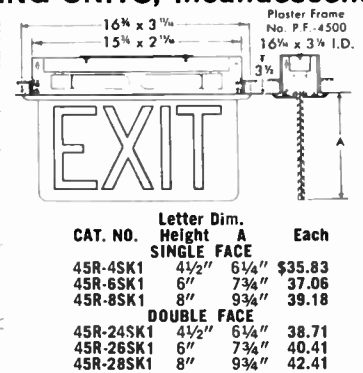
45E — EXTENDING BRACKETS, Incandescent* 45R — RECESSED CEILING UNITS, Incandescent*



CAT. NO. 45E-6SK1



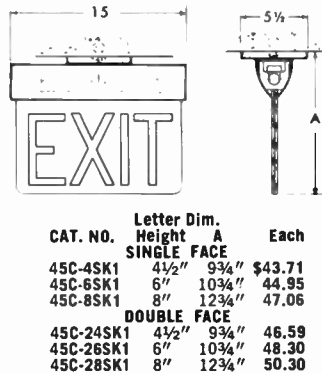
CAT. NO. 45R-8SK1G



45C — CEILING UNITS, Incandescent*



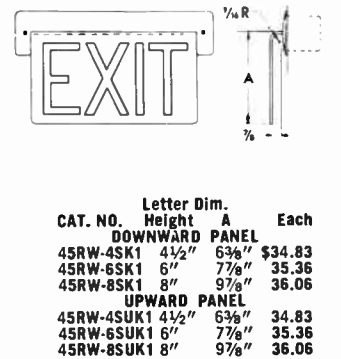
CAT. NO. 45C-6SK1



45RW — FLAT WALL RECESSED, Incandescent



CAT. NO. 45RW-6SK1



*2-25W. T-10 lamps with Lamp Life Multiplier (one circuit).

FLUORESCENT UNITS: 2-8W. T-5 lamps, to specify substitute "F" in lieu of "SK1" in Cat. No.

MULTI LIGHTING EQUIPMENT

THREDDOK REFLECTOR UNITS

The modern way of labor saving maintenance with safety. Reflector, lamp and socket removable as unit, permits easy and safe cleaning on floor. With spare units available, out of service delays are reduced to a minimum.

Cast aluminum hoods. Porcelain enamel steel reflectors, white outside and inside.

RLM DOME

SHALLOW BOWL



No. 3854V



No. 5854

Lamp Size Watts	Dia., In.	— Pendant —		—Outlet Box—		Each
		Cat. No.	O.A. Ht., In.	Cat. No.	O.A. Ht., In.	
RLM Dome Reflector*						
100	12	3852	10 3/8	3862	10 7/8	\$7.39
150	14	3853	12	3863	11 7/8	8.04
200	16	3854	13 1/8	3864	12 5/8	8.79
300-500	18	3855	14 1/4	3865	14	11.31
750-1500	20	3856	17 1/4	3866	16 3/4	14.59

*For vented neck, add suffix "V" to catalog number.

Lamp Size Watts	Dia., In.	— Pendant —		—Outlet Box—		Each
		Cat. No.	O.A. Ht., In.	Cat. No.	O.A. Ht., In.	
Shallow Bowl Reflector						
100	12	5852	10 3/8	5862	10	7.39
150	14	5853	11 3/8	5863	11 1/8	8.04
200	16	5854	12 1/4	5864	12	8.79
300-500	18	5855	12 7/8	5865	12 5/8	11.31

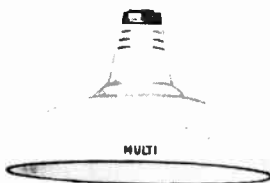
SOCKET REFLECTOR UNITS

For universal use where interchange of reflectors is not a factor. Weatherproof porcelain enamel steel reflector, white outside and inside. Contours or reflectors are same as Thredlok line.

Available with the following sockets: Medium Base, No. 1514; Mogul Base, No. 1530; Medium Pull Chain, No. 1511; Shock-Absorbing Medium and Mogul Base.

RLM DOME

SHALLOW DOME



No. 3014V



No. 5014

Lamp Size Watts	Dia., In.	RLM Dome*		Shallow Bowl		Each
		Cat. No.	O.A. Ht., In.	Cat. No.	O.A. Ht., In.	
100	12	3012	8	5012	8	\$5.89
150	14	3014	10	5014	9 1/4	6.55
200	16	3016	10 3/4	5016	10	7.29
300-500	18	3018	12 1/8	5018	10 3/4	9.44
750-1000	20	3020	14 3/4	.....	.....	12.72

*For vented neck, add suffix "V" to catalog number.

GLASSTEEL DIFFUSERS



For high diffusion of soft, even illumination. White porcelain enamel outside and inside.

Lamp Size Watts	Dia., In.	— Pendant —		—Outlet Box—		Each
		Cat. No.	O.A. Ht., In.	Cat. No.	O.A. Ht., In.	
For Thredlok Reflector Units						
100-200	18	3983	12 3/8	3986	12 1/4	\$17.86
300-500	20	3984	13 7/8	3987	13 3/8	23.94
750-1000	24	3985	17	3988	16 3/4	33.10
For Socket Reflector Units						
100-200	18	3993	11	3996	11	15.99
300-500	20	3994	12 1/4	3997	12 1/4	22.07
750-1000	24	3995	15	3998	15	31.23

HIGH BAY REFLECTOR UNITS



No. 4095V

For use on high open ceilings, for incandescent lighting.

Furnished in Alzak finish aluminum for concentrated downward lighting.

Available with or without vented neck.

Lamp Size Watts	Dia., In.	—Narrow Beam—		—Wide Beam—		Each
		Cat. No.	O.A. Ht., In.	Cat. No.	O.A. Ht., In.	
Thredlok Pendant Reflector*						
300-500	16	4081	17 7/8	4086	16 1/4	\$18.70
750-1500	18	4091	19 3/4	4096	18 1/8	24.31
Thredlok Outlet Box Reflector*						
300-500	16	4082	17 7/8	4087	15 7/8	18.70
750-1500	18	4092	19 1/2	4097	17 7/8	24.31

*For vented neck, add suffix "V" to catalog number.

DRUM TYPE CEILING FIXTURES

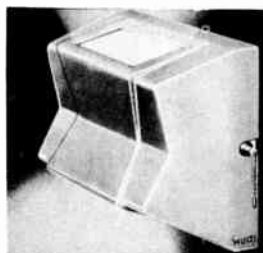


Hinged globe feature approved by Underwriters' Laboratories, Inc. Designed to give uniform light distribution without glare. Holder is 18 gauge aluminum with etched anodized finish.

Approved for direct connection to building wires Types R, T, TW, Romex by Underwriters' Laboratories, Inc.

Cat. No.	Globe Dia., In.	O.A. Ht., In.	Lamp Size Watts	Each
558	8	5 7/8	1-60W	\$ 7.97
560	10	5 7/8	2-60W	9.52
562	12	5 7/8	2-75W	11.61
564	14	5 7/8	2-100W	13.64
566	16	6	3-100W	21.58

HOSPITAL ROOM AND BED FIXTURE



Indirect room lighting with 150 watt lamp. Direct lighting on bed through Fresnel lens with 75 watt lamp. Two circuit pull switch operates up only, down only or up and down. Grounded convenience receptacle on side.

Cast aluminum enclosure with aluminum lacquer finish. Recommended 7' mounting height. Dimensions: 12" x 9 1/4", projection, 6".

Cat. No.	Description	Each
598	For Mounting on 3 1/2" or 4" Box.....	\$28.52
599	Wall Mounting w/10' Cord and Plug.....	30.86

PYLE-NATIONAL LIGHTING EQUIPMENT

EXPLOSION-PROOF FIXTURE HANGERS

VTH Series Pylets

Explosion-Proof, Dust-Tight and Weather-Resistant Class I, Group D; Class II, Groups E, F and G; Class III Rustproof Ferrous Alloy With Aluminum Cover



VTH
Without Feet
VTH-F
With Feet

VTH-L
For 3/8" Span
Wire and 3/4" Rod
Suspension

Take FO Series Flexible Supports and A-2-CB Connection Block below. Order separately.

Pendant Size, In.		Body Size, In.		— Without Feet —		— With Feet —	
		Cat. No.	Each	Cat. No.	Each		
1/2	3/4	22103	\$4.66	22103-F	\$5.04		
3/4	3/4	22203	4.66	22203-F	5.04		
1/2	1	33103	4.75	33103-F	5.13		
3/4	1	33203	4.75	33203-F	5.13		

For Span Wire and Rod Suspension

Pendant Size, In.		Body Size, In.		— Without Feet —		— With Feet —	
		Cat. No.	Each	Cat. No.	Each		
1/2	3/4	22103-L	5.59				
3/4	3/4	22203-L	5.59				
1/2	1	33103-L	5.70				
3/4	1	33203-L	5.70				

FO SERIES LIGHTING FIXTURE SUPPORTS

Explosion-Proof, Dust-Tight and Water-Tight Flexible Fittings Class I, Groups C and D; Class II, Groups E, F and G; and Class III

Pyle-O-Flex Fixture Supports are used to permit fixture to hang in a normal vertical position. A good electrical joint is made without Bonding Jumpers. Union Hubs and Female Hubs are equipped with set screws to prevent turning, when fixture is relamped. Male Hubs are extra long to fit special Female Hubs, equipped with set screws.

For special lengths: Add the following for each additional inch or fraction thereof: 1/2" Size, \$0.48, 3/4" Size, \$0.67.



—Length, Inches—		Size	Cat.	Each
Flexible	Overall	In.	No.	
Male — Male				
4	7 3/8	1/2	FOMM-114	\$10.93
		3/4	FOMM-224	13.40
6	9 3/8	1/2	FOMM-116	11.97
		3/4	FOMM-226	14.82
8	11 3/8	1/2	FOMM-118	12.92
		3/4	FOMM-228	16.15
Male — Female				
4	7 1/8	1/2	FOMF-114	11.21
		3/4	FOMF-224	13.87
6	9 1/8	1/2	FOMF-116	12.26
		3/4	FOMF-226	15.30
8	11 1/8	1/2	FOMF-118	13.21
		3/4	FOMF-228	16.63
Male — Female Union				
4	8 1/8	3/4	FOMU-224	14.73
6	10 1/8	3/4	FOMU-226	16.15
8	12 1/8	3/4	FOMU-228	17.48

CONNECTION BLOCK — PORCELAIN

For AL and VTH Series Fixture Hanger Pylets

Provides a convenient means for connecting line and fixture wires without splices in AL and VTH Series Pylets. Designed to fit the Pylet without any fastening and permits the complete assembly and wiring of the fixture on a bench.



Cat. No.	Description	Rating	Each
A-2-CB	2-Wire	20A-125V	\$0.67

FLEXIBLE FIXTURE HANGER PYLETS

Threaded — Ferrous Alloy — Rustproofed With Galvanized Steel Cover

Cushion springs are furnished in different compression values to suit the weight of the fixture supported.

Fixtures are free to swing through an angle of 20 degrees in all directions from perpendicular. A stop is provided to prevent injury to wires or connections due to twisting of fixture.



Connection Block.
Order separately.



Ball



Cushion

Weight Fixture Lbs.	Pendant Size In.	Body Size In.	Cat. No.	Each
			ALA Ball Type	
	1/2	1/2	A-115-A	\$2.66
	1/2	3/4	A-215-A	2.66
	3/4	3/4	A-225-A	2.66
			ALA Cushion Type	
	1/4	1/2	A-1152-A	5.23
	1/2	3/4	A-2152-A	5.23
	1/2	1/2	A-1154-A	5.23
	6 to 12	1/2	A-1154-A	5.23
	6 to 12	3/4	A-2154-A	5.23
	12 to 24	1/2	A-1156-A	5.23
	12 to 24	1/2	A-2156-A	5.23
	24 to 48	1/2	A-2158-A	5.23
			ALC Ball Type	
	1/2	1/2	A-115-C	2.85
	1/2	3/4	A-215-C	2.85
	1/2	1	A-315-C	3.14
	3/4	3/4	A-225-C	2.85
	3/4	1	A-325-C	3.14
			ALC Cushion Type	
	1/2	1/2	A-1152-C	5.23
	3 to 6	1/2	A-2152-C	5.23
	3 to 6	3/4	A-3152-C	5.51
	6 to 12	1/2	A-1154-C	5.23
	6 to 12	1/2	A-2154-C	5.23
	6 to 12	3/4	A-3154-C	5.51
	12 to 24	1/2	A-1156-C	5.23
	12 to 24	1/2	A-2156-C	5.23
	12 to 24	3/4	A-3156-C	5.51
	24 to 48	1/2	A-2158-C	5.23
	24 to 48	3/4	A-3158-C	5.51
			ALL Ball Type	
	1/2	3/4	A-215-L	2.85
	3/4	3/4	A-225-L	2.85
			ALL Cushion Type	
	3 to 6	1/2	A-2152-L	5.23
	6 to 12	1/2	A-2154-L	5.23
	12 to 24	1/2	A-2156-L	5.23
	24 to 48	1/2	A-2158-L	5.23
			ALT Ball Type	
	1/2	3/4	A-215-T	2.95
	1/2	1	A-315-T	3.33
	3/4	3/4	A-225-T	2.95
	3/4	1	A-325-T	3.33
			ALT Cushion Type	
	3 to 6	1/2	A-2152-T	5.32
	3 to 6	1/2	A-3152-T	5.61
	6 to 12	1/2	A-2154-T	5.32
	6 to 12	1/2	A-3154-T	5.61
	12 to 24	1/2	A-2156-T	5.32
	12 to 24	1/2	A-3156-T	5.61
	24 to 48	1/2	A-2158-T	5.32
	24 to 48	1/2	A-3158-T	5.61

PYLE-NATIONAL LIGHTING EQUIPMENT

TYPE ALM FLEXIBLE FIXTURE HANGERS

Threaded — Ferrous Alloy — Rustproofed
With Galvanized Steel Cover



Ball Type

Threaded body attaches to tapped hub of Junction Pylets. Ball and spring cushion types, permit fixture to swing 20° in all directions from perpendicular.

Weight Fixture Lbs.	Pendant Size In.	Body Size In.	Cat. No.	Each
.....	1/2	3/4	A-215-M	\$2.47
.....	3/4	3/4	A-225-M	2.47
ALM Cushion Type				
3 to 6	1/2	3/4	A-2152-M	4.37
6 to 12	1/2	3/4	A-2154-M	4.37
12 to 24	1/2	3/4	A-2156-M	4.37
24 to 48	1/2	3/4	A-2158-M	4.37

TYPES AUN AND AUD FLEXIBLE FIXTURE HANGERS

For 4-Inch Outlet Boxes

Aluminum alloy with rustproofed ferrous alloy ball. Complete with mounting gasket.



Type	Description	Pendant Size, In.	Cat. No.	Each
AUN	Heavy Duty	1/2	AUNA-41	\$3.42
		3/4	AUNA-42	3.42
AUD	Vaportight	1/2	AUDA-41	5.32
		3/4	AUDA-42	5.32

FIXTURE HOOKS AND LOOPS

Rustproofed Ferrous Alloy



1/2" Female Loops

3/4" Female Loops

1/2" Male Loops

3/4" Male Loops

Fixture Pendant Loops

Stem Size In.	Hole Size* In.	Female Cat. No.	Each	Male Cat. No.	Each
1/2	5/8 x 1 1/8	A-10-L	\$0.95	A-10-LM	\$0.95
3/4	1 1/8 x 5/8	A-202-L	.95	A-202-LM	.95



1/2" Female Hooks

3/4" Female Hooks

1/2" Male Hooks

3/4" Male Hooks

Fixture Pendant Hooks

Stem Size In.	Hole Size* In.	Female Cat. No.	Each	Male Cat. No.	Each
1/2	5/8 x 1 1/8	A-10-FH	\$0.95	A-10-MH	\$0.95
3/4	1 1/8 x 5/8	A-202-FH	.95	A-202-MH	.95

*Oval wire hole.

CONDUIT SUSPENSION CLAMPS

For Use with Rigid or Thin Wall Conduit

Type ACR — With Ring

Cat. No.	Conduit Size, In.	Each
A-10-CRS	1/2	\$1.04
A-20-CRS	3/4	1.04
A-30-CRS	1	1.04

Type AC — Less Hook

Cat. No.	Max. Dia. Span Wire In.	Conduit Size In.	Each
A-10-C	3/8	1/2	\$0.85
A-20-C	3/8	3/4	.85
A-30-C	3/8	1	.85

LA SERIES EXPLOSION-PROOF LIGHTING FIXTURES

Class I, Groups B, C and D Hazardous Locations
Factory Sealed
Copper-free Aluminum Alloy

Fixtures complete with globe are listed below with and without guards. They can also be furnished with porcelain enameled steel reflectors.

Type LAB 3/4" Pendant Fixtures

For mounting on pendant stem supported from VTA Series Fixture Hanger Pylets. Stems longer than 12 inches require the use of a flexible fitting. Use "FO" Series Flexible Fixture Support.



For Incandescent Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
200 or 300*	3/4	LAB-231	\$65.55	LAB-230	\$63.65
200 or 300†	3/4	LAB-241	83.60	LAB-240	80.75

Type LAX 3/4" Ceiling Fixtures

For mounting close to ceilings. Rust-proofed ferrous alloy body has four threaded hubs, three of which are furnished with pipe plugs.



For Incandescent Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
200 or 300*	3/4	LAX-231	\$73.15	LAX-230	\$71.25
200 or 300†	3/4	LAX-241	91.20	LAX-240	88.35

LE SERIES EXPLOSION-PROOF LIGHTING FIXTURES

Class I, Groups C and D Hazardous Locations
Copper-free Aluminum Alloy

Fixtures complete with globe are listed below with and without guards. They can also be furnished with porcelain enameled steel reflectors.

Type LEB 3/4" Pendant Fixtures
1/2" size also available

For mounting on pendant stem supported from VTH Series Junction Pylets. Stems longer than 12 inches require the use of a flexible fitting. Use "FO" Series Flexible Fixture Support.



For Incandescent Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
200 or 300*	3/4	LEB-231	\$35.15	LEB-230	\$33.25
200 or 300†	3/4	LEB-241	49.40	LEB-240	46.55
300 or 500	3/4	LEB-251	73.15	LEB-250	68.40

For Mercury Vapor Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
250	3/4	LEBM-241	\$76.00	LEBM-240	\$73.15
400	3/4	LEBM-251	85.50	LEBM-250	80.75

Type LEX 3/4" Ceiling Fixtures

1/2" size also available

For mounting close to ceiling. Rust-proofed ferrous alloy Pylet body has four threaded hubs, three of which are furnished with pipe plugs.



For Incandescent Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
200 or 300*	3/4	LEX-231	\$43.70	LEX-230	\$41.80
200 or 300†	3/4	LEX-241	57.95	LEX-240	55.19
300 or 500	3/4	LEX-251	80.75	LEX-250	76.00

For Mercury Vapor Lamps

Watts	Size In.	With Guard Cat. No.	Each	Without Guard Cat. No.	Each
250	3/4	LEXM-241	\$84.55	LEXM-240	\$81.70
400	3/4	LEXM-251	93.10	LEXM-250	88.35

†200-watt, A-25 or 300-watt, PS-30 lamps only.
*200-watt, A-25 or 300-watt, PS-25 lamps only.

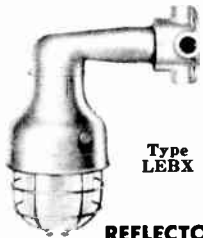
PYLE-NATIONAL LIGHTING EQUIPMENT

LE SERIES EXPLOSION-PROOF LIGHTING FIXTURES

Class I, Groups C and D Hazardous Locations
Copper-free Aluminum Alloy

Fixtures complete with globe are listed below with and without guards. They can also be furnished with porcelain enameled steel reflectors.

Type LEBX and LEJ Bracket Fixtures



Type LEBX



Type LEJ

Information on request.

REFLECTORS FOR "LA" AND "LE" SERIES FIXTURES

White Porcelain Enameled Steel



Size In.	Dome		Deep		Shallow		30° Angle	
	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
12	LE-		34	\$5.22			35	\$5.70
14	32	5.13	44	7.15	33	5.13	45	7.60
16	42	6.65	54	10.45	43	6.65	55	8.55
20	52	10.45			53	10.45		

NOTE: 30 Series for 150-200 watt fixtures.
40 Series for 200-300 watt fixtures.
50 Series for 300 or 500 watt fixtures.

TYPE LEBH INDUSTRIAL LIGHTING FIXTURES

With Adjustable Prismatic Reflector

Explosion-Proof and Weather-Resistant (Raintight)
Class I, Groups C and D



Copper-free Aluminum Alloy

Type LEBH Pendant

200 or 300 Watts

Also available in Types similar to LEX, LEBX and LEJ.

Hub Size In.	With Guard		Without Guard	
	Cat. No.	Each	Cat. No.	Each
With Reflector				
1/2	LEBH-148	\$89.30	LEBH-144	\$86.45
3/4	LEBH-248	89.30	LEBH-244	86.45
Without Reflector				
1/2	LEBH-141	52.25	LEBH-140	49.40
3/4	LEBH-241	52.25	LEBH-240	49.40

TYPE HEA EXPLOSION-PROOF PORTABLE HAND LAMPS

Explosion-Proof and Weather-Resistant (Raintight)
Class I, Groups C and D With 100 Watt A-21 Lamp



Non-sparking Copper-free aluminum is used for all exposed metal Guard. Insulated handle is high impact-resistant plastic. Globe is tempered glass and is heat and impact-resistant.

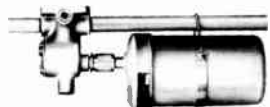
Cat. No.	Cord Dia.	Lamp Size	Each
HEA-1012	.312 to .437	100W. A-21	\$45.36

EMB SERIES EXPLOSION-PROOF BALLASTS

Class I, Groups C and D; Class II, Groups E, F and G

For use with LE-M and DE series Mercury Vapor Fixtures, 1 and 2 lamp types for 400-watt lamps. Primary Rating: 120/240, 208, 277 and 480 volts.

Information on request.



DE SERIES LIGHTING FIXTURES

Dust Ignition-proof (Dust-tight), Enclosed & Gasketed (Vaportight, Weather Resistant & Raintight)
Class II, Groups E, F and G, and Class III

Pendant Type

Complete With Globe

Copper-free Aluminum Alloy



Size In.	For 100 and 150-Watt Lamps		For 150, 200 and 300-Watt Lamps	
	Cat. No.	Each	Cat. No.	Each
1/2	DEB-120	\$16.62	DEB-140	\$19.00
3/4	DEB-220	16.62	DEB-240	19.00

Ceiling Type

With Type VJDX Pylet-Rust-proofed

Ferrous Alloy

4 Hubs, 3 Plugged

Size In.	For 100 and 150-Watt Lamps		For 150, 200 and 300-Watt Lamps	
	Cat. No.	Each	Cat. No.	Each
1/2	DEXX-120	\$21.37	DEXX-140	\$23.75
3/4	DEXX-220	21.37	DEXX-240	23.75



Without Type VJDX Pylet Body

...	DEX-120	16.62	DEX-240	19.00
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Also available in 90-Degree Bracket Type.

REFLECTORS FOR DE SERIES LIGHTING FIXTURES

White Porcelain Enameled Steel



Cat. No.	Dome Size In.	Each	Shallow		30° Angle	
			Cat. No.	Size In.	Cat. No.	Size In.

For 100-150-Watt Fixtures

DE-22	12	\$4.75	DE-23	12	\$4.18	DE-25	12	\$5.04
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For 150 or 200-Watt Fixtures

DE-42	18	7.12	DE-43	16	6.17	DE-45	14	6.17
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DE SERIES LIGHTING FIXTURES

Mercury Vapor and Incandescent

Dust Ignition-proof (Dust-tight), Enclosed & Gasketed (Vaportight, Weather Resistant & Raintight)
Class II, Groups E, F and G and Class III



Type DEB



Type DEXX

3/4" Hub Size
1/2" and 1" sizes also available.

Copper-free Aluminum alloy body, spun aluminum reflector, polished heat and impact resistant plate glass cover and stainless steel ring with asbestos gasket. All components are replaceable.

Reflector and Glass

Dia. In.	Depth In.	Type DEB		Type DEXX	
		Cat. No.	Each	Cat. No.	Each

For 200-300 Watt Medium Screw Base

Incandescent Lamp

16	7	DEB-2440	\$41.80	DEXX-2440	\$46.55
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For 250 Watt Mercury Vapor Mogul Base Lamps

16	7	DEB-2441	42.75	DEXX-2441	47.50
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For 400 Watt Mercury Vapor Lamp or 300-500 Watt Incandescent Mogul Base Lamps

18	10	DEB-2541	54.15	DEXX-2541	58.90
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PYLE-NATIONAL LIGHTING EQUIPMENT

LV-M SERIES MERCURY VAPOR FIXTURES*

Enclosed and Gasketed (Vaportight)

Complete with Ballast, Globe and Guard*. No need to remove ballast and socket to mount fixture and connect to line.

White epoxy finish. 3/4" conduit size; 1" size also available.



LVBM Pendant



LVXM Ceiling

Primary Voltage	Normal Power Factor Cat. No.	Each	High Power Factor Cat. No.	Each
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75 Watt Pendant Fixtures

	LVBM-		LVBM-	
120	241-B75	\$37.05	-----	\$ ----
208	241-B757	37.05	-----	-----
240	241-B752	37.05	-----	-----
277	241-B753	37.05	-----	-----

100 Watt Pendant Fixtures

120	241-B100	37.05	241-BH100	54.60
208	241-B1007	37.05	241-BH1007	54.60
240	241-B1002	37.05	241-BH1002	54.60
277	241-B1003	37.05	241-BH1003	54.60

175 Watt Pendant Fixtures

120	241-B175	42.75	241-BH175	59.37
208	241-B1757	42.75	241-BH1757	59.37
240	241-B1752	42.75	241-BH1752	59.37
277	241-B1753	42.75	241-BH1753	59.37

75 Watt Ceiling Fixtures

	LVXM-		LVXM-	
120	241-B75	38.95	-----	-----
208	241-B757	38.95	-----	-----
240	241-B752	38.95	-----	-----
277	241-B753	38.95	-----	-----

100 Watt Ceiling Fixtures

120	241-B100	38.95	241-BH100	56.52
208	241-B1007	38.95	241-BH1007	56.52
240	241-B1002	38.95	241-BH1002	56.52
277	241-B1003	38.95	241-BH1003	56.52

175 Watt Ceiling Fixtures

120	241-B175	44.65	241-BH175	61.27
208	241-B1757	44.65	241-BH1757	61.27
240	241-B1752	44.65	241-BH1752	61.27
277	241-B1753	44.65	241-BH1753	61.27

LV-M SERIES REPLACEMENT FIXTURES*



Kits for converting incandescent vaportight fixtures to mercury vapor. Factory wired kit with normal power factor ballast, plugs into lamp socket and screws into globe thread of original incandescent fixture.

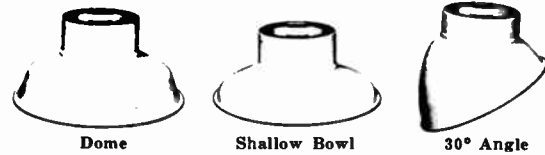
Primary Voltage	With 100 Watt Adapter		With 200 Watt Adapter	
	Cat. No.	Each	Cat. No.	Each
	LVKM-		LVKM-	
120	141-B75	\$36.10	241-B75	\$37.05
120	141-B100	36.10	241-B100	37.05
120	141-B175	41.80	241-B175	42.75

*To specify fixtures without guard, change third digit in catalog number from "1" to "0"; i.e., LVBM-240-B75.

REFLECTORS FOR LV-M SERIES MERCURY FIXTURES

White Porcelain Enameled Steel

Reflectors have four nylon shoes for attachment. No tools required. A 45° turn securely locks reflector to fixture body. Reflectors need not be removed for relamping.



Cat. No.	Type Dome	Dia. In.	Depth In.	Each
LV-402	Standard Dome	16 3/4	7 3/8	\$7.13
LV-403	Shallow Dome	16 3/8	5 1/4	6.18
LV-405	30° Angle	13 1/4	10 1/2	6.65

LV-M SERIES INTERCHANGEABLE COMPONENTS

Copper-free Aluminum Alloy

Mounting Adapters — Interchangeable

Complete with two mushroom head studs to engage bayonet slots of basic fixture body.



Hub Size In.	Cat. No.	Each	Cat. No.	Each	Cat. No. 100W	Each	Cat. No. 200W	Each
	LVB-		LVX-		LVK-		LVK-	
3/4	24	\$2.37	24	\$4.28	14	\$1.42	24	\$2.37
1	34	2.37	34	4.28				

Basic Bodies — Factory Wired With Ballast

Bayonet slots and fastening studs quickly attach to any of the above adapters.



Primary Voltage	Normal Power Factor Cat. No.	Each	High Power Factor Cat. No.	Each
	For 75 Watt Medium Base Lamps			
120	LV-B75	\$28.02	-----	\$ ----
208	LV-B757	28.02	-----	-----
240	LV-B752	28.02	-----	-----
277	LV-B753	28.02	-----	-----
	For 100 Watt Mogul Base Lamps			
120	LV-B100	28.02	LV-BH100	45.60
208	LV-B1007	28.02	LV-BH1007	45.60
240	LV-B1002	28.02	LV-BH1002	45.60
277	LV-B1003	28.02	LV-BH1003	45.60
	For 175 Watt Mogul Base Lamps			
120	LV-B175	31.63	LV-BH175	48.26
208	LV-B1757	31.63	LV-BH1757	48.26
240	LV-B1752	31.63	LV-BH1752	48.26
277	LV-B1753	31.63	LV-BH1753	48.26

Globes and Guard

Heat resistant globe must be used with 175 watt fixtures.



Cat. No.	Description	Each
LV-400	Clear Prismatic Glass	\$2.37
LV-400-H	Heat Resistant Clear Prismatic Glass	4.47
LV-401	Lamp Guard	4.28

PLYE-NATIONAL LIGHTING EQUIPMENT

AO SERIES — ALUMINUM INDUSTRIAL LIGHTING FIXTURES

Enclosed and Gasketed (Vaportight)

Triple coated with white PEC-9. Complete interchangeability of mounting adapters on both 100- and 200-watt fixtures.



Type AOB Pendant Fixtures

Precision Die Cast Aluminum

With Porcelain Lamp Receptacle, Clear Glass Globe and Cork Gaskets. Hub has set screw to prevent loosening on pendant thread.

Watts	Hub Size In.	— With Guard —		— Without Guard —	
		Cat. No.	Each	Cat. No.	Each
100	1/2	AOB-11110	\$8.55	AOB-11100	\$5.13
	3/4	12110	8.65	12100	5.23
	1/2	21110	10.26	21100	5.99
	3/4	22110	10.36	22100	6.08
200/300†	1/2				
	3/4				



Type AOXF With 4-Inch Cast Aluminum Junction Box

Has 1/4" mounting holes on 4 5/8" centers. Four tapped hubs with three plugged. Fifth hub at top can be tapped when specified.

Watts	Hub Size In.	— With Guard —		— Without Guard —	
		Cat. No.	Each	Cat. No.	Each
100	1/2	AOXF-11110	\$9.69	11100	\$6.27
	3/4	12110	9.88	12100	6.46
	1/2	21110	11.40	21100	7.13
	3/4	22110	11.59	22100	7.31
200/300†	1/2				
	3/4				



Type AOWXF Bracket Fixture

With 4-inch Junction Box. Same as Type AOXF with 90 degree Cast Aluminum Bracket.

Watts	Hub Size In.	— With Guard —		— Without Guard —	
		Cat. No.	Each	Cat. No.	Each
100	1/2	AOWXF-11110	\$11.59	11100	\$8.17
	3/4	12110	11.78	12100	8.36
	1/2	21110	13.30	21100	9.03
	3/4	22110	13.49	22100	9.21
200/300†	1/2				
	3/4				



Type AOWC Bracket Fixtures

For Horizontal Conduit Runs

Complete with Wall Mounting Plate and Gaskets. Cast Aluminum Bracket has Tapped Hub on each side and is furnished with one Closure Plug.

Watts	Hub Size In.	— With Guard —		— Without Guard —	
		Cat. No.	Each	Cat. No.	Each
100	1/2	AOWC-11110	\$9.98	11100	\$6.56
	1/2	21110	11.69	21100	7.41
200/300†	1/2				
	1/2				

†300-watt, PS-30 lamp only.

AO SERIES — ALUMINUM INDUSTRIAL LIGHTING FIXTURES

Enclosed and Gasketed (Vaportight)

Types AOZ and AOW Fixtures

For 4-inch Octagon or Round Outlet Boxes and GW Series Pylets



AOZ



AO-4 Adapter Plate



AOW

Watts	Hub Size In.	— With Guard —		— Without Guard —	
		Cat. No.	Each	Cat. No.	Each

Type AOZ Straight Fixtures

100	.....	AOZ-10110	\$7.98	AOZ-10100	\$4.56
	.....	20110	9.69	20100	5.42
200/300†	.....			
				

Type AOW Bracket Fixtures

100	.....	AOW-10110	\$9.88	AOW-10100	\$6.46
	.....	20110	11.59	20100	7.32
200/300†	.....			
				

Type AOU Universal Adapter Plate

For Mounting and Aligning Type AOW Fixtures on 4-inch Outlet Boxes.

Cat. No.	Description	Each
AOU-4	With Gasket	\$1.43

†300-watt, PS-30 lamp only.

AO SERIES REFLECTORS

White Porcelain Enameled Steel

With Four Nylon Locking Shoes. Require no tools to apply or remove. Ventilated at top.



Dome



Shallow Bowl



Deep Bowl



30° Angle

Reflector Type	— 100-Watt —		— 200/300-Watt —	
	Cat. No.	Each	Cat. No.	Each
Dome	AOR-101	\$5.22	AOR-201	\$7.13
Shallow Bowl	AOR-102	4.28	AOR-202	6.18
Deep Bowl	AOR-103	5.22	AOR-203	7.13
30° Angle	AOR-104	3.80	AOR-204	6.65

AO SERIES GLOBES



Color	— 100-Watt —		— 200/300-Watt —	
	Cat. No.	Each	Cat. No.	Each
Clear	AO-100	\$1.52	AO-200	\$1.52
Amber	100-A	3.23	200-A	4.47
Green	100-G	3.23	200-G	4.47
Opal	100-OP	3.23	200-OP	4.47
Ruby	100-R	3.23	200-R	4.47

AO SERIES GUARDS — Die Cast Aluminum

With two Ball Detents. Require no tools to apply or remove. Coated White with PEC-9. Also available with locking set screw when specified. No extra charge.



Cat. No.	— 100-Watt —		— 200/300-Watt —	
	Each	Each	Cat. No.	Each
AOG-1	\$3.42		AOG-2	\$4.27

PYLE-NATIONAL LIGHTING EQUIPMENT

BOB SERIES INDUSTRIAL LIGHTING FIXTURES
Enclosed and Gasketed (Vaportight)

Copper-free aluminum bodies; mogul procelain receptacle.

For 300 watt medium screw base lamp an adapter is furnished at no extra charge — specified by suffix "A". Example: BOB-150-A.

For fixtures with heat resistant globes add \$2.85. Specified by suffix "H" — example: BOB-150-H.

300 or 500 Watts



Type Reflector

Size 1/2 Inch
Cat. No. Each



Size 3/4 Inch
Cat. No. Each

Plain with Globe Only	BOB-150	\$10.73	BOB-250	\$10.83
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With Reflector and Globe

Dome	BOB-152	18.81	BOB-252	18.90
Deep Bowl	BOB-153	15.77	BOB-253	15.86
35° Angle	BOB-154	17.86	BOB-254	17.95



Globe



Basket Guard

Description	Cat. No.	Each
Globe — Plain	BO-164	\$3.61
Globe — Heat-Resistant	BO-164-H	6.65
Basket Guards	12" Dia. (Deep).....	BO-172 3.51
	14" Dia. (Angle).....	BO-171 3.99
	18" Dia. (Dome).....	BO-170 5.04

TYPE FEA EXPLOSION-PROOF FLOODLIGHTS

Explosion-Proof and Weather-Resistant (Raintight)
Class I, Groups C and D



Housings are of copper-free aluminum construction and are easy to handle in portable use. Body adjustment is 360° horizontal and 270° vertical movement. Ratings: 150 watts and 300 watts.

Also available with portable adjustable tripod and for permanent mounting without wheel base.

The front glass ring screws into the body and is provided with lugs at four points to facilitate removal for lamping. The plain, heat resistant front glass is clamped into position by means of an internal ring.

150 Watt

Cat. No.	Base	Lamp* (Spot or Flood)	Each
FEA-1912	Med. Side Prong	Par-38 Projection	\$85.50
1012	Med. Skirted or Med. Screw	Par-38 Projection R-40 Reflector	85.50

300 Watt

1112	Mogul R-40 Refl.	Plain Lens	85.50
1122	Screw R-40 Refl.	Diffusing Lens	85.50

*Lamp not furnished with Floodlight.

DO SERIES MIDGET VAPOR-TIGHT LIGHTING FIXTURES

For mounting on Type DO — Form 5 Pylets, listed below, or on metal cabinets or panels. With Copper-free aluminum alloy body, mounting gasket and Type DO-3 porcelain receptacle, less lamp grip — shock proof mounted.

Takes form 5 Globes only.

Form 5 for 10-Watt, S-11 Intermediate Screw Base Lamps

Cat. No.	Description	Each
DON-5-T	With Clear Globe	\$7.31
DON-5-L	With Ruby Globe	7.31
DON-5-R	With Green Globe	7.31
DON-5	Without Globe	4.37
DO-53	Wire Guard for Above	2.38



MIDGET GLOBES

Form 5 for 10-Watt, S-11, Intermediate Screw Base Lamps



Cat. No.	Description	Dia. In.	Lgth. In.	Each
DO-5-T	Clear	2 1/8	2 3/8	\$2.94
DO-5-TA	Clear, I.F.	2 1/8	2 3/8	3.32
DO-5-L	Ruby	2 1/8	2 3/8	2.94
DO-5-R	Green	2 1/8	2 3/8	2.95

MIDGET VAPOR-TIGHT FIXTURE PYLETS

For Type DON, Form 5 Fixtures

Type DO-105 Pylet can be furnished tapped 1/2" conduit at any location at an advance of \$0.10 for each outlet. Copper-free Aluminum alloy.

Side Hub with Integral Bushing

Cat. No.	Size Inches	Each
DO-1-A†	1/2	\$2.85



With Five Blank Hubs

Cat. No.	Size Inches	Each
DO-105	Blank	\$2.19

†Also available with pushbutton switch on side at an advance of \$1.81 list price.

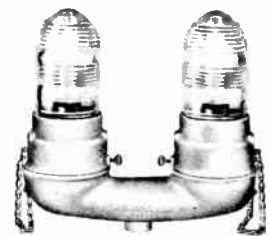
TYPE BYMB AND BYZB OBSTRUCTION LIGHTS

Copper-free Aluminum Alloy

Globes and Lamps (Not Included)



Single



Double

Cat. No.* Less Globes	Each	Cat. No.* Less Globes	Each
Multiple Style — Medium Prefocus Lamp Receptacle			
BYMB-3600-AH	\$14.49	BYMB-36002-AH	\$28.97
Multiple Style — Medium Screw Base Lamp Receptacle			
BYMB-3600-AHQ	12.97	BYMB-36002-AHQ	25.94

*Globes are available in the following colors: Clear—\$8.41; Red—\$11.40; Green—\$11.40; Yellow—\$11.40.

PYLE-NATIONAL LIGHTING EQUIPMENT

TRANSFER RELAY

For Type BYMB Obstruction Lights



In watertight housing for multiple lamps. Will operate with any 115 volt lamp from 60 to 100 watt.

Cat. No.	Conduit Size, In.	Each
7-AP-2	3/4	\$26.70
7-AP-3	1	26.70

MOLDED PHENOLIC WEATHERPROOF SOCKETS

Designed to take standard guards and reflectors with weatherproof socket fitters. 6" leads are permanently molded in the Phenolic body to prevent entrance of moisture.

Type HL-50 has a 1/2" pipe thread Phenolic shank, molded integral with the body, which permits mounting in Pylet conduit hubs, steel knockout boxes, rigid conduit couplings, flexible conduit couplings and 3/4" garden hose.



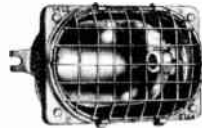
With Threaded Shank

Type HL-50	Cat. No.	Length Leads Inches	Each	Type HL-5
	HL-50	6	\$0.95	
	Without Pipe Thread Shank			
	HL-5	6	.85	

VAPOR-TIGHT PIT AND SUBWAY FLOODLIGHTS

For Flush or Surface Wall or Ceiling Mounting

Provide perfect lighting for pits, tunnels, under-passes, subways, wash-racks, etc. Plain, heat and impact resisting front glass, with smooth, flat surfaces on both sides. Reversible hinged wire guard, when specified.



Types listed below have a 1/2" conduit hub at each end, but can be tapped 3/8", 1" or 1 1/4", when specified, at no extra charge. Blank hub on back can also be tapped up to 1 1/4" when specified.

Body is copper-free cast aluminum, natural finish and cover is ferrous alloy, cadmium plated.

Lamps used are 100-watt A-21, 150-watt A-23 or 200-watt A-25.

With/Without Wire Guard	With Adjustable Specular Alzak Reflector		With White Porcelain Enamel Reflector	
	Cat. No.	Each	Cat. No.	Each
With Guard	12N1211-1	\$39.42	12N1611-1	\$36.10
Without	12N1211	37.05	12N1611	33.72

TYPE 15360 SEALED BEAM GYRALITE®
360 Degree Dual Flash Revolving Beam
Patent Nos. D-177,470 & 2,846,663

Heavy Duty Copper-free Aluminum Alloy Housing with Glass Enclosure. For use on various types of moving equipment or to mark hazardous areas. The beam of the sealed beam lamp is reflected at right angles by the dual inclined plane reflector, projecting 96 flashes per minute in a horizontal plane. Available for service voltages ranging from 6 to 110 volts.



Complete information on pipe mounting base, colors, construction, and prices will be furnished on request.

THOMPSON SUSPENSION FITTINGS
FLANGE COMBINATIONS



AL-7565



AL-7645

Rigid Type suspension combination of suspension flanges with hanger flanges.

Cat. No.	Description	Wt. Lbs. Each
AL-7565	Hanger Combination. Flanges AL-7500 and AL-7401. Includes 4—3/8 x 1" hanger attaching bolts and nuts	.88

Suspension Flange with adjustable angle fitting and Hanger Flange Plate.

Cat. No.	Description	Wt. Lbs. Each
AL-7645	Suspension Flange Combination, 3/4" Light Duty. Includes hanger flange with attaching bolts	1.48

THOMPSON BEAM AND ANGLE CLAMPS
LIGHT DUTY BEAM AND ANGLE CLAMPS

For Light Structural Members



7700



7715

Cat. No.	Description	Wt. Lbs. Each
7700	For use with Light I, and L Beams, J L and □ □. Width over flanges 3 1/2" to 4 1/2". Flange thickness not over 3/8". Beam Clamps only, tapped 3/4" pipe thread	1.13
7705	Beam Clamp with hanger flange plate. Includes 3/8 x 1" attaching bolts and nuts	1.76
7710	For use with Light L's, flange width 3" to 4", flange thickness not over 3/8". Angle Beam Clamp only, tapped 3/4" pipe thread	1.22
7715	Angle Beam Clamp with hanger flange plate. Includes 3/8 x 1" attaching bolts and nuts	1.85

LIGHT DUTY ADJUSTABLE BEAM CLAMPS
For Wide Heavy Beams



7720

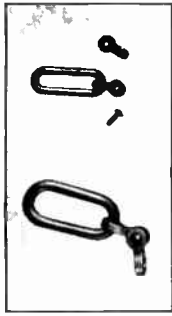


7725

Cat. No.	Description	Wt. Lbs. Each
7720	For use with I, L and H Beams, trusses and girders of J L and □ □. Width over flanges 4" to 8", flange thickness from 3/8" to 3/4". Beam Clamp only, tapped 3/4" pipe thread	2.69
7725	Beam Clamp with hanger flange plate. Includes 3/8 x 1" attaching bolts and nuts	3.32

Prices on Application

THOMPSON CABLE AND CHAIN FITTINGS
TERMINAL LINKS



9000-9002



9010-9012

Terminal links are required at the terminal or operating end of each hanger operating line.

For Chain

Cat. No.	Description	Wt. Lbs. Per 100
9000	Link and Clevis, light, will pass through pulleys, 3/4" conduit.....	2.19
9002	Link and Clevis, heavy, stop link for No. 33 and No. 4 chain only.....	4.75

For Cable

9010	Link only, light, will pass through pulleys and 3/4" conduit.....	1.32
9012	Link only, heavy, stop link only.....	4.63

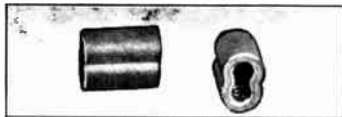
CHAIN AND CABLE TERMINAL FITTING

No. 8135 Locking Hook



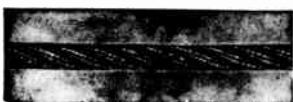
For either size terminal link. Drilled for padlock with 1/4" bail or 5/8" rod (when mounted in groups). Malleable iron, hot dipped galvanized. Mounting holes for 5/8" bolts. Weight, .20 lbs.

SERVING SLEEVES



Cat. No.	Description	Wt. Lbs. Each
9200	Serving Sleeve, required for all cable servings .....	.02

AIRCRAFT CABLE



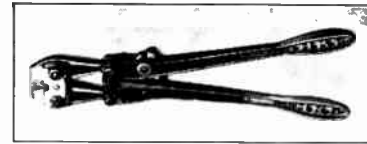
1/8", 7 x 19, preformed aircraft cable is the most satisfactory material for hanger operating lines.

Preformed to prevent fraying when cut. Its low weight per foot permits longer runs between pulleys for maximum installation economies.

Size In.	Material	Rated Strength Lbs.	Wt. Lbs. Per 100'
1/8"	Steel, Galv.	2000	2.88
1/8"	Stainless Steel	1900	2.88

THOMPSON SERVING TOOL AND CABLE CUTTER

SERVING TOOL



The only satisfactory tool for applying 9200 Serving Sleeves.

Cat. No.	Description	Wt. Lbs. Each
9260	Serving Tool	5

CABLE CUTTER



Recommended as the most satisfactory cutter for field use with 1/8", 7 x 19 aircraft cable.

Cat. No.	Description	Wt. Lbs. Each
9280	Cable Cutter	3

CHAIN AND HAND-LINES

CHAINS



Arc Lamp



Machine

Available in two types: cut-link arc lamp chain and welded-link machine chain. Arc lamp chain is available in either steel, hot dipped galvanized, or stainless steel; machine chain in hot-dip galvanized finish only.

Size No.	Construction	Rated Tensile Strength		Wt. Lbs. Per 100'
		Steel	Stainless Steel	
35	Arc Lamp	550	650	7
33	Arc Lamp	725	.....	9
4	Machine	750	.....	13

HAND-LINES

Hand-lines are fabricated at the factory from either No. 4 machine chain or 1/8", 6 x 42, plow steel, galvanized, tiller rope. A choice of connecting fittings, depending on type of terminal link to be used, also is available.

Chain	Cat. No. Cable	Connecting Fittings	For Terminal Links No.
4-A*	9525*	9025-SS Connecting Link	9000, 9010
4-B**	9533**	9300 Snap Hook	9002, 9012

*Will pass through pulleys and 3/4" conduit
**Stop Link.

Prices on Application

THOMPSON DISCONNECTING AND LOWERING HANGERS

For Indoor and Outdoor Use

The Thompson Hanger is essentially a latching type overhead disconnecting switch and a fixture raising and lowering device combined. It consists of two members, upper and lower.

The upper member carrying the upper contact assemblies to which the current feed wires are attached, is firmly secured to the supporting structure.

The lower member carries the engaging lower contact assemblies wired to the lighting fixture which it supports.

Suitable for hand-operated installations only. 60 pounds maximum recommended gross weight. For use with aircraft cable or types and sizes of

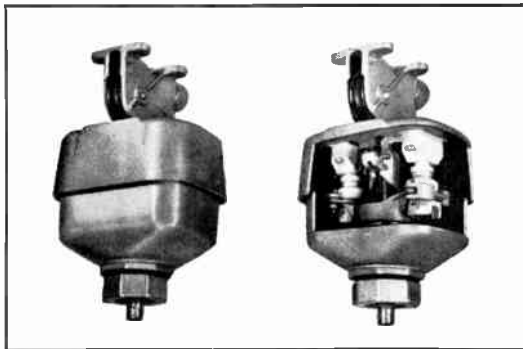
chain listed on a following page. Standard Fixture Adapter for 2-pole hangers: Type M 1/2" male pipe thread; for 4-pole hangers: Type M 3/4" male pipe thread. Specify adapter type required as suffix to hanger catalog number: AL-2370-M1/2".

Ratings: Underwriters' Laboratories: 15 Amps., 600 Volts; 30 Amps., 250 Volts, A.C. 10 Amps., 250 Volts, D.C.

Note: 2-pole hangers are for single 2-wire circuits only. 4-pole units can be used in any combination of circuits within capacity ratings: (1) two circuits 2-wire each, (2) two circuits 3-wire and (3) three circuits 4-wire.

OPEN-FACE MODELS

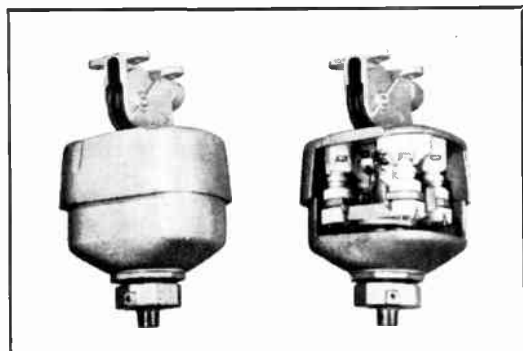
The most flexible and universally applicable design, the open face sheave housing provides for chain or cable delivery at any desired vertical angle from 15° above to 90° below horizontal—except as limited by the diameter of the reflector. This versatility is identical in both 2-pole and 4-pole types.



2-Pole Hangers
Catalog Numbers

Standard Hanger
AL-2370

With Stainless Steel Guide
AL-2375



4-Pole Hangers
Catalog Numbers

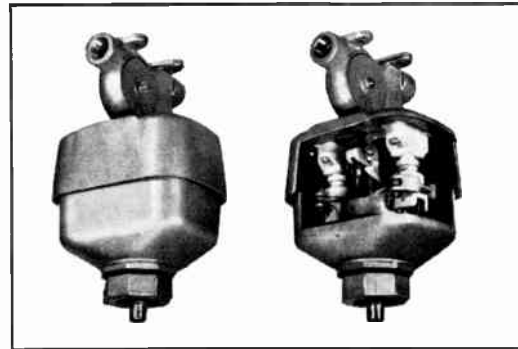
Standard Hanger
AL-4570

With Stainless Steel Guide
AL-4575

Duplex Construction: All above hangers are available in Duplex construction, which provides for inclusion of a drop-stem between hanger sheave and canopy. To order, add prefix 2- to catalog number of hanger model: AL: 2-2370.

SEAL-TYPE MODELS

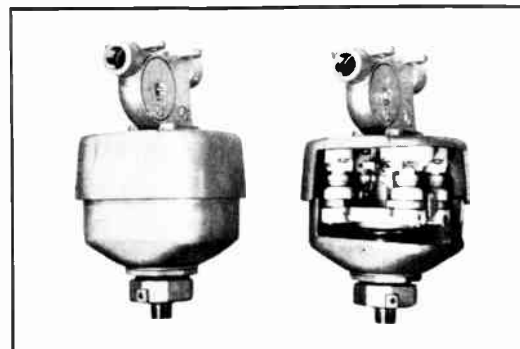
Threaded for 3/4" conduit to enclose the operating line, the seal-type sheave housing provides maximum protection from dust and moisture. Conduit-enclosed operating chain or cable is, however, limited only to horizontal runs without offsets or short radius bends.



2-Pole Hanger
Catalog Numbers

Standard Hanger
AL-2390

With Stainless Steel Guide
AL-2395



4-Pole Hanger
Catalog Numbers

Standard Hanger
AL-4590

With Stainless Steel Guide
AL-4595

Duplex Construction: All above hangers are available in Duplex construction, which provides for inclusion of a drop-stem between hanger sheave and canopy. To order, add prefix 2- to catalog number of hanger model: AL 2-2370.

Prices on Application

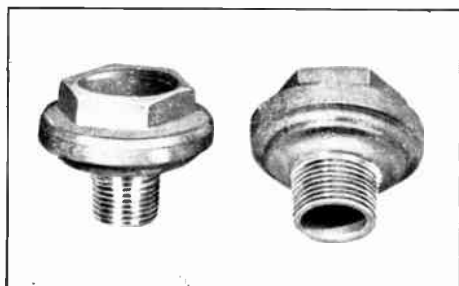
THOMPSON HANGER ADAPTERS

All 2 pole hanger models include the type M- $\frac{1}{2}$ " adapter, unless otherwise specified.

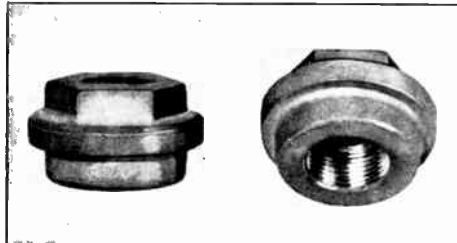
All 4-pole hanger models include the type M- $\frac{3}{4}$ " adapter, unless otherwise specified.

Any one of the adapters listed will be supplied with each hanger at no increase in the hanger list price, when specified on the original order.

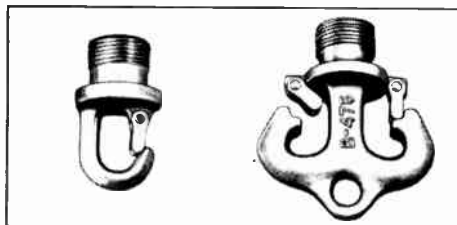
Add the "type" letter of the required adapter as suffix to the hanger catalog number.



Cat. No.	Description	Wt. Oz. Each
AL-1121	Type M- $\frac{1}{2}$ ", $\frac{1}{2}$ " male pipe thread, aluminum alloy supplied with all 2 pole hangers unless otherwise specified	3
AL-1126	Type M- $\frac{3}{4}$ ", $\frac{3}{4}$ " male pipe thread, aluminum alloy supplied with all 4 pole hangers unless otherwise specified	4
AL-1128	Type M-1 $\frac{1}{4}$ ", 1 $\frac{1}{4}$ " male pipe thread, aluminum alloy	6



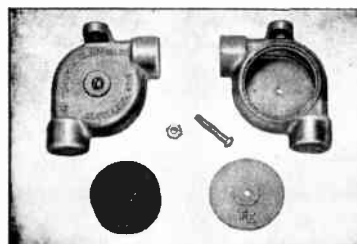
Cat. No.	Description	Wt. Oz. Each
AL-1131	Type N- $\frac{1}{2}$ ", $\frac{1}{2}$ " female pipe thread, aluminum alloy	5
AL-1136	Type N- $\frac{3}{4}$ ", $\frac{3}{4}$ " female pipe thread, aluminum alloy	4



Cat. No.	Description	Wt. Oz. Each
L-1150	Type J, Fixture hook with safety latch, malleable iron, hot dip galvanized, bronze safety latch. For loop suspended fixtures, 60 lbs. and under	$\frac{5}{8}$
L-1165	Type JJX, Heavy Duty, Safety Type, double hook, malleable iron, hot dip galvanized, with bronze safety latches. For use twin unit suspension yokes Nos. ALX-8600 and ALX-8610, also bail suspended heavy fluorescent fixtures	1 $\frac{1}{4}$

THOMPSON PULLEYS

Thompson pulleys are required for almost all installations of Thompson Hangers, as a means of making necessary changes in direction of the hanger operating lines, by-passing obstructions, as well as supporting long horizontal runs of chain or cable. Pulley housings are of cast aluminum alloy, heat treated and aged. The housings closely shroud the wheels which are deeply grooved. Wheels are of special composition, hard rubber. Axles are of high strength aluminum alloy.

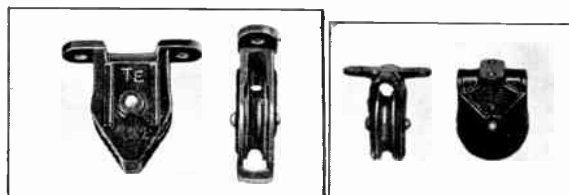


CORNER PULLEY

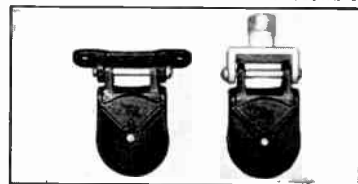
Supplied with all Unit Packages. Bolt hole spacing to take U-bolts for 1 $\frac{1}{4}$ " or 1 $\frac{1}{2}$ " pipe brackets as specified.

Cat. No.	Description	Wt. Lbs. Each
AL-7080	Sealtype, Fixed Position, Aluminum Alloy, Threaded for $\frac{3}{4}$ " Conduit	1.00

THROUGH PULLEYS — OVER-HUNG

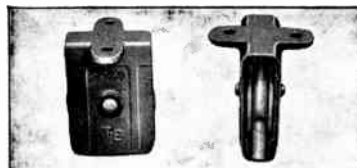


2 Views AL-7100 2 Views AL-7110



AL-7130 AL-7150

Cat. No.	Description	Wt. Lbs. Each
AL-7100	Aligned Lugs, fixed position, high strength aluminum alloy housing	.80
AL-7110	Transverse Lugs, fixed position, high strength aluminum alloy housing	.60
AL-7130	Hinged, bolted type, high strength aluminum alloy housing	.80
AL-7150	Hinged, $\frac{3}{4}$ " male pipe threaded stud for direct attachment to beam clamps. Aluminum alloy	.80

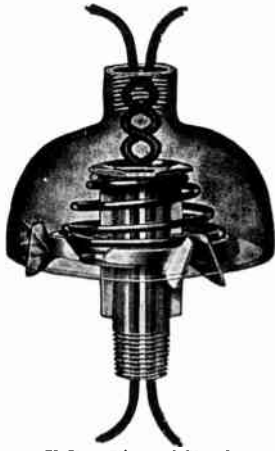


THROUGH PULLEYS — UNDER-HUNG

Cat. No.	Description	Wt. Lbs. Each
AL-7190	Transverse Lugs, fixed position, high strength aluminum alloy housing	.60
AL-17190	Tapped Hub, $\frac{3}{4}$ " Pipe, with set screw, high strength aluminum alloy housing	.60
AL-27190	Male Stud, $\frac{3}{4}$ " Pipe, for direct attachment to beam clamps, aluminum alloy housing	.70

Prices on Application

THOMPSON SHOCK ABSORBERS



X-Ray View of Shock Absorber Showing Method of Wiring Model No. 50

The Thompson Shock Absorber is designed to afford lamp filaments and the entire lighting fixture, the maximum of protection from shocks and vibration so frequently found in industrial applications. These shock absorbers are flexible as to movement in all directions, easy to apply, compact, of ample strength, safe and long lived. The construction is simple. There are but four parts, and since there are no bolts, screws, or nuts used in the assembly, there are no parts to work loose, fall out, or rust in place.

The parts are a bell-shaped body, an open spring plate and a stem, all of cast 220T4 aluminum alloy; and a steel spring. All springs are heavily cadmium-plated. The design of the stems incorporate two safety features. The guiding ribs which engage appropriate guiding notches in the spring plates, prevent the rotation of lighting fixtures and consequent twisting and damage to conductor wires. The spring seat collar at the top prevents the stem from passing through the opening in the spring plate in case of spring breakage. The design of the body and spring plate is such that even with a broken spring it would be practically impossible for the two parts to become disengaged under any normal movement.

The Junior, or smaller of the two sizes, with three interchangeable springs, each of different load-carrying capacity is designed for fixture weights from 1½ to 12 pounds. The Heavy-Duty size has four interchangeable springs, each having a different load-carrying capacity, to cover the range of fixture weights from 5 to 75 pounds.

There are two models of the Junior size and six models of the Heavy-Duty size. The differences are in the top and bottom connections with the exception of Model No. 70 with the loop top in which a split-top stem is used to permit direct wire entrance. This shock absorber also serves as a fixture adapter. This type of stem may be used if desired, in Models No. 50 and No. 60 shock absorbers, but the stem of the "50" and "60" cannot be used in the Model No. 70.

Two sizes of bottom or fixture connection of all shock absorber models is now available, ½" and ¾" male pipe thread. Where a larger fixture connection is desired, a suitable bushing is used.

Experience has proved Thompson Shock Absorbers are outstanding for prolonging lamp life and reducing fixture maintenance. They also accomplish similar results with many other suspended devices in a wide variety of useful applications.

JUNIOR SIZE

Load Capacities—1½ lbs. to 12 lbs.

2 Models with ½" Stems — Series 10 and 20



Series 10



Series 20

Cat. No.	Rated Capacity	Std. Pkg.	Shpg. Wt. Lbs.
Series 10, Top Connection Tapped ½" Pipe Thread			
Stem Size: ½" Male Pipe Thread			
A10L	1½ to 5 lbs.	40	18
A10M	3 to 8 lbs.	40	18
A10H	5 to 12 lbs.	40	18

Series 20, Top Connection Threaded ¾" Pipe Thread

Cat. No.	Rated Capacity	Std. Pkg.	Shpg. Wt. Lbs.
Stem Size: ½" Male Pipe Thread			
A20L	1½ to 5 lbs.	40	18
A20M	3 to 8 lbs.	40	18
A20H	5 to 12 lbs.	40	18

HEAVY DUTY SIZE

Load Capacities—5 lbs. to 75 lbs.

3 Models with ½" Stems—Series 50, 60 and 70
3 Models with ¾" Stems—Series 55, 65 and 75



Series 50



Series 60



Series 70

½" Stem	Cat. Nos.	¾" Stem	Rated Capacity	Std. Pkg.	Shpg. Wt. Lbs.
Top Connection: ½" Female Pipe Thread					
A50L	A55L		5 to 12 lbs.	20	18
A50M	A55M		9 to 25 lbs.	20	18
A50H	A55H		15 to 40 lbs.	20	18
A50HH	A55HH		30 to 75 lbs.	20	18
Top Connection: ¾" Male Pipe Thread					
A60L	A65L		5 to 12 lbs.	20	18
A60M	A65M		9 to 25 lbs.	20	18
A60H	A65H		15 to 40 lbs.	20	18
A60HH	A65HH		30 to 75 lbs.	20	18
Top Connection: Top Hanging Loop ¾" I.D.					
A70L	A75L		5 to 12 lbs.	20	19
A70M	A75M		9 to 25 lbs.	20	19
A70H	A75H		15 to 40 lbs.	20	19
A70HH	A75HH		30 to 75 lbs.	20	19

The Series 70 and 75 shock absorbers are designed as combination adapters, aligners and shock absorbers for free swing suspension from Type J adapters and other fittings. For applied "S" hooks, specify, "With S hook."

Price on Application

BIG BEAM AUTOMATIC EMERGENCY LIGHTS

COMBINATION EXIT AND AREA AUXILIARY LIGHT



Instant light when power fails, Exit light has two 25 watt, 110-v. bulbs for normal use. When power fails relay activates 6-v. battery lighting both exit and down light. Has voltmeter and test switch. Heavy steel case.

No.	Description	Each
XRW	Red letters on white—or specify, less battery.....	\$36.00
706	6-v. dry cell battery.....	5.38

LIFESAVER WITH DRY CELL BATTERY



Ideal for small stores, restaurants and motels. Illuminates approximately 5,000 sq. ft. for 5 hours on one 7½-v. dry cell. Has two adjustable heads, built-in mounting brackets, voltmeter, ready indicator light and test switch.

No.	Description	Each
2-75	Lifesaver emergency light less battery.....	\$23.96
751	7½-v. dry cell battery.....	6.53

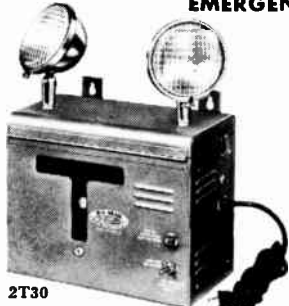
BIG BEAM LOW MAINTENANCE AUXILIARY LIGHT



Dependable low cost unit. Illuminates approximately 8,000 sq. ft. for 2½ hours. Batteries need to be replaced once a year, after extended outage—or as specified by local code.

No.	Description	Each
2ADS/MN	With neon light and voltmeter, less battery.....	\$50.36
2ADS	Less neon light and voltmeter, less battery.....	46.36
466	9-v. dry cell battery.....	7.43

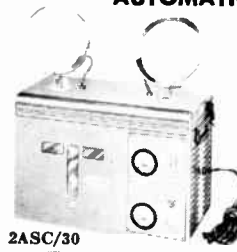
BIG BEAM ECONOMY RECHARGEABLE EMERGENCY LIGHT



Ideal for short period power outages. Battery is recharged by special trickle rate charger. Has two adjustable heads; built-in wall mounting bracket, 30 ampere hour lead acid battery, pilot light, cutoff and test switches. Illuminates approximately 10,000 sq. ft. for 4½ hours.

No.	Description	Each
2T30	With lead acid battery and two heads...	\$75.65
2T30EL	With junction box for conduit connection.....	74.16

AUTOMATIC EMERGENCY LIGHTS



Unlimited recycling provided years of continued use from original battery. Lead acid batteries incorporate specific gravity indicator discs to show approximate state of charge. Two heads illuminate approximately 10,000 sq. ft.

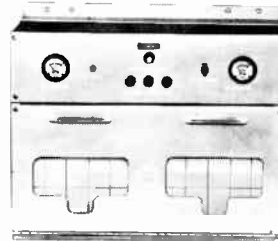


ASC series feature fully automatic charging, dust-covered plug-in relays, ammeter, milliammeter on lead acid or voltmeter on nickel cadmium units, test switch and ready indicator light.

ATW series feature 12-hour fast charge time switch and indicator light, ready and trickle rate charge indicator light, voltmeter on nickel cadmium units.

No.	Description	Each
(With clear plastic lead acid battery, prorated guarantee for 5 years)		
2ATW/25 & 2ASC/25	25 A.H.....	\$102.00
2ATW/30 & 2ASC/30	30 A.H.....	102.00
2ATW/40 & 2ASC/40	40 A.H.....	99.45
2ATW/80 & 2ASC/80	80 A.H.....	105.40
2ATW/100 & 2ASC/100	100 A.H.....	104.13
(With translucent plastic jar nickel cadmium battery, prorated guarantee for 10 years)		
2ATW/20NCP & 2ASC/20NCP	20 A.H.....	\$154.62
2ATW/30NCP & 2ASC/30NCP	30 A.H.....	171.83
2ATW/40NCP & 2ASC/40NCP	40 A.H.....	199.37
20	Wall mounting bracket for all above units.....	5.31

BIG BEAM 12-VOLT CENTRAL SYSTEM EMERGENCY LIGHTING



12-v. power allows placement of heads 5 times further from unit than 6-volt. Lower amperage drain of bulbs permits use of additional heads. Fully automatic two-rate battery recharger. 32-v. systems available.

No.	Description	Each
(With clear plastic lead acid battery, prorated guarantee for 5 years)		
A12LA30	30 A.H.....	\$352.75
A12LA40	40 A.H.....	365.50
A12LA80	80 A.H.....	395.25
A12LA100	100 A.H.....	420.75
(With translucent plastic jar nickel cadmium battery, prorated guarantee for 10 years)		
A12NC20	20 A.H.....	\$454.75
A12NC30	30 A.H.....	497.25
A12NC40	40 A.H.....	539.75
A12NC50	50 A.H.....	590.75

BIG BEAM REMOTE FIXTURES



Complete line of remote mounted heads and fixtures give maximum coverage with minimum number of units.



No.	Description	Each
S/—	Surface exit, specify type of face panel and voltage.....	\$15.13
55	Remote head, specify voltage.....	7.23

MODEL LA-30/LA-30E



**EXIDE LIGHTGUARD®
EMERGENCY LIGHTING UNITS**

MODEL F/FE

Protects where routine maintenance is not feasible. Contains Exide sealed, maintenance-free, lead-acid storage battery and automatic two-rate charger. Sealed battery never needs water.

- No. 72058 (F)each \$113.20
- No. 72060 (FE)each \$113.20



MODEL A/AE

Protects where there is a need to get ready quickly for new emergencies. Contains Exide Tytex® lead-acid storage battery and automatic two-rate battery charger.

- No. 72070 (A)each \$107.90
- No. 72072 (AE)each \$107.90



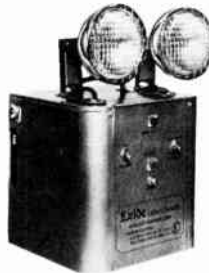
Protects where emergency lighting units must blend tastefully with decor. Contains Exide sealed, maintenance-free, lead-acid storage battery and automatic two-rate charger. Sealed battery never needs water.

- No. 72133 (LA-30 Grey)each \$141.70
- No. 72137 (LA-30 Brown)each \$141.70
- No. 72141 (LA-30E Grey)each \$141.70
- No. 72145 (LA-30E Brown)each \$141.70

MODEL M/ME

Protects where maintenance personnel are available. Contains Exide Tytex® lead-acid storage battery and two-rate charger with manual switchover from high rate to trickle rate charging.

- No. 72093 (M)each \$80.65
- No. 72095 (ME)each \$80.65



MODEL T/TE

Protects where time is not an important factor in preparing for new emergencies. Contains Exide Tytex® lead-acid storage battery and trickle rate charger.

- No. 72123 (T)each \$76.45
- No. 72125 (TE)each \$76.45



MODEL NA-30/40; NA30/40E



Protects where maximum lighting, minimum maintenance, long battery life are important. Contains Exide nickel-cadmium battery and automatic two-rate charger.

- No. 72129 (NA-30/40)each \$173.50
- No. 72130 (NA-30/40E)each 173.50

NOTE: All Models designated as "E" (i.e. FE, AE) are for conduit connection. All others are equipped with 3-wire cord sets.

All Models are designed for 115 volt, 60 cycle service.

MODEL D-1

Protects where there is no requirement for recharging battery to prepare for new emergencies. Contains powerful Ray-O-Vac dry cell battery.

- No. 72701each \$35.50



**EXIDE HERMETICALLY-SEALED LIGHTGUARDS
FOR HAZARDOUS AREAS**



MODEL FH

Protects in areas made potentially hazardous by dust, fumes or gases and where routine maintenance is not feasible. Contains Exide sealed, maintenance-free, lead-acid storage battery and automatic two-rate charger.

- No. 72508each \$246.30

MODEL NAH-30/40

Protects in areas made potentially hazardous by dust, fumes or gases. Contains Exide nickel-cadmium battery and automatic two-rate charger.

- No. 72591 (NAH-30)each \$284.65
- No. 72591 (NAH-40)each 298.90



MOE LIGHT PRODUCTS

Fluorescent Lighting Fixtures



M-2413 Ceiling Fixture. Ribbed, white plastic diffuser, trimmed in white. Length 25", width 11", depth 4". 2-20W trigger start. 13.17
M-2414 Same as M-2413, except 4-20W trigger start. 18.57
M-2415 Same as M-2413, except length 49". 2-40W rapid start. 15.57

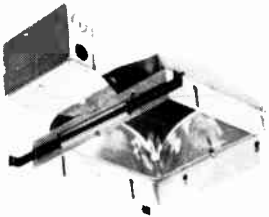
M-1220 Fluorescent ceiling styling in traditional shaded copper finish brings a new spirit of brightness to any kitchen. A decorative complement to range hood and appliances of same popular finish. Opaque white plastic diffuser. Width 11". Length 48". Depth 4". 2-40W rapid start fluorescent lamps. 33.27
M-1221 Same as M-1220, except width 15½", 4-40W rapid start fluorescent lamps. 43.26



Fluorescent wall-mounted stylings with special prismatic diffusers spread soft, even glow both above and below. Easily mounted individually or in rows (row mounting requires M-1399 joiner clip). Die-cast aluminum end caps, finished black. Extends 5" from wall. Knockouts for switch and grounded convenience outlet. Height 3". 48½" long. 1-40W rapid start fluorescent lamp.

M-1397-1 Satin brass panel. 20.61
M-1397-3 Satin aluminum panel. 20.61
M-1397-39 Walnut panel, satin brass trim. 22.61

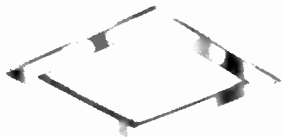
Built-In Recessed Lighting Fixtures



Recessed squares for one piece trim. Pre-wired, square recessed housing. Full drawn aluminum reflector. Two full-length bar hangers can be installed in either direction. Brackets also included for easy installation. Outlet box extends 4" from housing.

R2 Housing: 8¼" square, 4¼" deep. 100W capacity. 3.57
R3 Same as R2, except housing 10¼" square and capacity 150W. 4.80

Recessed Decorative Trim
 100 Watt Trim and Glass



Trim with flat Alba-Lite glass. Overall trim 9¼" x 9¼".

R20-A Satin aluminum. 2.91
R20-B Satin brass. 2.43
R20-C Chromium. 2.43
R20-CP Antique copper. 2.43
R20-W Baked White. 2.13

Trim with drop opal glass. Overall trim size 9¼" x 9¼". Depth 1¼".

R21-A Satin aluminum. 4.17
R21-B Satin brass. 3.63
R21-C Chromium. 3.63
R21-CP Antique copper. 3.63
R21-W Baked white. 3.33



Trim with Fresnel lens. Overall trim size 9¼" x 9¼".

R22-C Chromium. 4.26
R22-W Baked white. 3.99

R23 Hand-blown opal all glass trim. Overall trim size 10½" x 10½". Depth 2¼". 6.87

Built-In Recessed Lighting Fixtures

R1 Pre-wired, round recessed housing. Adjustable socket assembly permits use of 75W, 75W R-30, 100W, 150W, or 150W R40 lamps. 14 gauge outlet box. Housing height 7½", diameter 6¾". Bar hangers included. 1.59



Recessed Decorative Trim
 Trim for 100 Watt Lamps



Trim with flat Alba-Lite glass. Outside diameter 8".

R200-A Satin aluminum. 2.85
R200-B Satin brass. 2.40
R200-C Chromium. 2.40
R200-W Baked white. 2.19

Trim with Fresnel lens. Outside diameter 8".

R202-A Satin aluminum. 3.15
R202-B Satin brass. 2.73
R202-W Baked white. 2.55



R206 Wall wash unit for dramatic light distribution. Diameter 8"; inner rim rotates 360° for directional effect. Baked white finish. Mount 2' to 3' from wall and 4' apart. Spreads even light across wall. 5.19

Trim for 50 Watt R-20 Reflector Lamps



Decorative adjustable spot for 50W R-20 reflector lamps. Diameter 8", adjustable 31° from vertical; and with 358° rotation.

R220-A Satin aluminum. 5.73
R220-B Satin brass. 5.40
R220-W Baked white. 5.19

Trim for 75 Watt R-30 Reflector Lamps



Decorative adjustable spot. Diameter 8", adjusts 31° vertical; 358° rotation.

R230-A Satin aluminum. 6.72
R230-B Satin brass. 6.39
R230-W Baked white. 6.12

Louvered trim. Outside diameter 8".

R233-A Satin aluminum. 2.55
R233-B Satin brass. 2.37
R233-C Chromium. 2.37
R233-CP Antique copper. 2.37
R233-W Baked white. 2.19



Small aperture trim. Outside diameter 8". Inside diameter 2".

R234-A Satin aluminum. 2.34
R234-B Satin brass. 2.01
R234-W Baked white. 1.80



Open trim. Outside diameter 8".

R232-A Satin aluminum. 1.50
R232-B Satin brass. 1.38
R232-C Chromium. 1.38
R232-CP Antique copper. 1.38
R232-W Baked white. 1.26

Trim for 150 Watt R-40 Reflector Lamps



Open trim. Outside diameter 8".

R240-A Satin aluminum. 1.56
R240-B Satin brass. 1.11
R240-C Chromium. 1.11
R240-CP Antique copper. 1.11
R240-W Baked white. 1.26

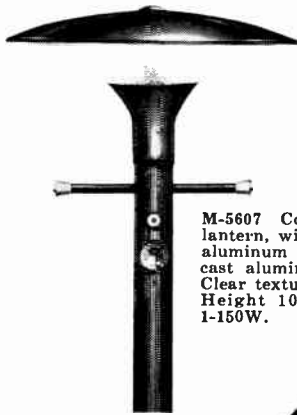


Louvered trim. Outside diameter 8".

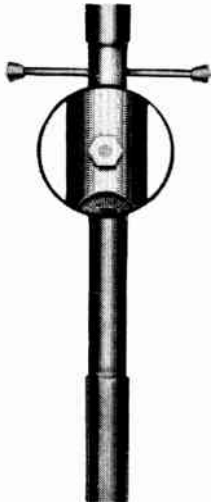
R241-A Satin aluminum. 2.58
R241-B Satin brass. 2.13
R241-C Chromium. 2.13
R241-CP Antique copper. 2.13
R-241-W Baked white. 2.25

MOE LIGHT PRODUCTS

Outdoor Lighting Fixtures



M-5607 Contemporary post lantern, with sweeping black aluminum shade and sturdy cast aluminum glass holder. Clear textured glass diffuser. Height 10", diameter 20". 1-150W. 17.95



M-923 "Light Command" fluted aluminum post. Photo-electric control turns light on at sundown, off at sunrise. Adjusts 72" to 84". Up to 600W capacity. 16.77

M-844 Black aluminum post lantern with frosted glass chimney, clear glass panels. Solid brass ornament. Height 19 1/4". 9 1/2" square. 1-100W. 11.37



Colonial Wall Bracket Lantern. Clear, beveled glass panels and curved tops. Finishes in black, white, antique brass or copper. Height 23 1/4". 7" square. 1-100W.

- M-5211-7** Black 21.94
- M-5211-8** White 21.94
- M-5211-12** Antique Brass 26.01
- M-5211-14** Antique Copper 26.61



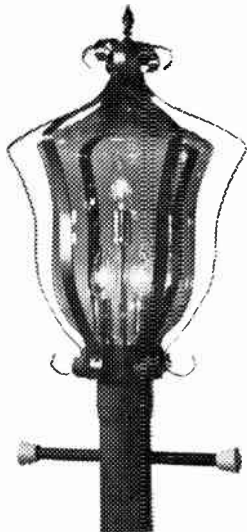
M-5202-7 New England Style Wall Bracket. Weathered black finish and amber textured glass. 12" square. Height 29 1/2". Extends 12 1/2". 1-150W. 37.26

M-5202-8 Same as M-5202-7, except with white finish and clear textured glass. 37.26



M-5203-7 Wall lantern with scroll arms. Weathered black finish. Amber textured glass. Spread 22". Lantern 8" square. Height 10 1/2". Extends 9". 1-100W. 25.94

M-5203-8 Same as M-5203-7, except with white finish and clear textured glass. 25.94



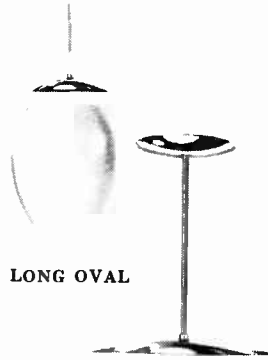
M-5625 Traditional post lantern with a Mediterranean flair. Unique black scrollwork encompasses dramatic smoke glass shade. Antique brass cups hold three candelabra base lamps. Height 22". Diameter 12". 3-60W candelabra base lamps. (Order post separately.) 33.27



Traditional coach lantern wall brackets... all with crystal clear beveled glass panels. Height 16 3/4". 6 1/4" square. Extends 7". 1-75W.

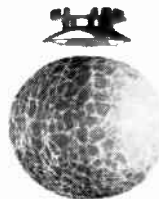
- M-811-1** Polished solid brass. 12.75
- M-811-7** Black on solid brass. 10.35
- M-811-8** White on solid brass. 10.35
- M-811-12** Antique solid brass. 12.75
- M-811-14** Antique solid copper. 12.75

Stems and Glass for Custom Combinations



LONG OVAL

FLAT OVAL



SATIN CRYSTAL-CRACKLE SPHERES



OPAL SPHERE

Stems, Canopies and Close-To-Ceiling Mountings
Note: Order stems and canopies separately from glass.

Swivel stems and canopy Two stems included, one 18", the other 2 3/8". For 10", 12" glass spheres and long oval M-2105.

- M-1911-1** Satin brass. 4.95
- M-1911-3** Satin aluminum. 4.95
- M-1911-8** White. 4.35

For 14", 16" glass spheres.

- M-1912-1** Satin brass. 4.95
- M-1912-3** Satin aluminum. 4.95
- M-1912-8** White. 4.35

Rigid stems and canopy Two stems included, one 18", the other 2 3/8". For M-2107 flat oval glass.

- M-1913-1** Satin brass. 8.07
- M-1913-3** Satin aluminum. 8.07
- M-1913-8** White. 6.27

Close-to-ceiling mountings For 10", 12" glass spheres.

- M-1915-1** Satin brass. 4.05
- M-1915-3** Satin aluminum. 4.05
- M-1915-8** White. 2.37

For 14", 16" glass spheres.

- M-1916-1** Satin brass. 4.05
- M-1916-3** Satin aluminum. 4.05
- M-1916-8** White. 2.37

Hand-Blown Opal and Satin Crystal-Crackle Glass

Note: Order glass separately from stems, canopies and close-to-ceiling mountings.

Opal glass spheres

- M-2100** 10" diameter. 1-150W. 4.17
- M-2102** 12" diameter. 1-200W. 6.27
- M-2104** 14" diameter. 1-300W. 10.50
- M-2106** 16" diameter. 1-300W. 12.90

Satin opal glass long oval

- M-2105** 10" diameter. 1-200W. 6.87

Satin opal glass flat oval

- M-2107** 18" diameter. 2-150W. 12.30

Satin crystal-crackle spheres Delicate, hand-blown, etched design, for use with stems or close-to-ceiling mounting.

- M-2101** 10" diameter. 1-150W. 6.87
- M-2103** 12" diameter. 1-200W. 9.57

Decorative Accent Lighting

Solid die cast aluminum with satin finish. Variety of opal finish glass shapes. Fit 3 1/4" or 4" outlet boxes.



M-875 Wall light. Height 6 1/2". Diameter 4 1/2". Extends 4 1/2". 1-100W. 4.65

M-868 Same as M-875, but with grounded convenience outlet for bathroom. 5.67



M-876 Double wall light. Height 4 1/2". Width 13". Extends 4 1/2". 2-100W. May be wired together or separately. 9.75

M-885 Ceiling light. Height 8". Width 6 1/2". 1-100W. 4.41

M-884 Also available as wall light. Height 7 1/2". Width 6 1/2". Extends 7 1/4". 1-100W. 5.67



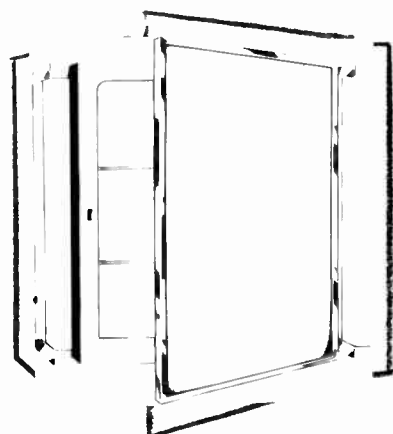
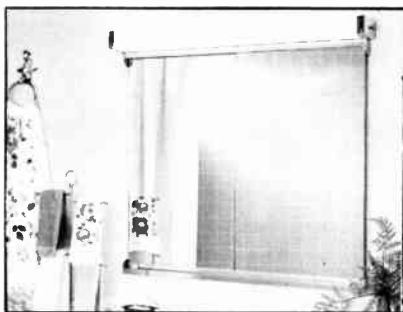
M-886 Wall light. Height 7 1/2". Width 6". Extends 7". 1-100W. 5.67
M-887 Also available as ceiling light. Height 8". Diameter 6". 1-100W. 4.41

MOE LIGHT PRODUCTS

Bathroom Cabinets

In the continuing trend toward more decorative bathrooms, the cabinet plays an important part. Moe Light's fashionable bathroom cabinets add that extra touch to complete any decor. French traditional, American traditional, fresh contemporary—whatever your decorating mode, you'll find a Moe Light cabinet to complement your good taste.

MC-1795 Contemporary sliding glass doors conceal unique "his and hers" twin cabinets. Shown with M-321 fluorescent strip (light fixture not included). Large expanse of glass reflects the complete bathroom decor. Adjustable shelves and razor slots. Two wall openings: 14" x 18" x 2 3/4". Overall: 36" x 30". Two plate glass mirrors: 18" x 30". 11.97

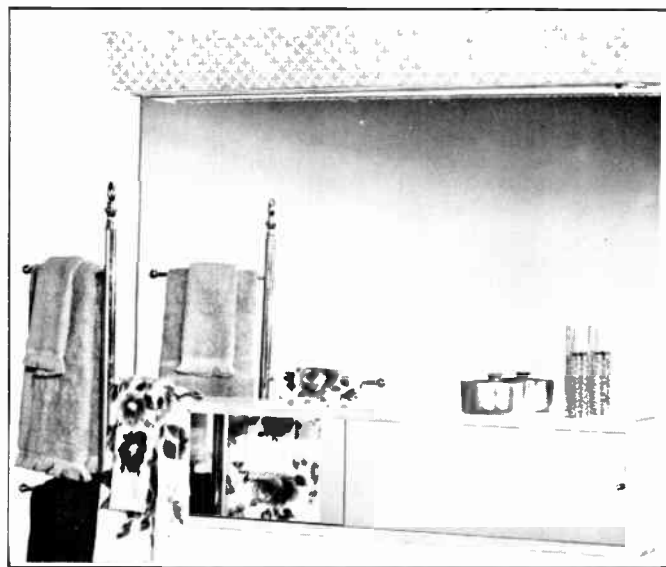


MC-1652 Single cabinet with fluorescent lights, chromium-plated end caps, turn switch, grounded convenience outlet. Magnetic latch and 90° stop hinge. Adjustable shelves, razor blade slot. Plate glass mirror. 2-15W lamps included. Wall opening: 14" x 18" x 3 3/8". Mirror: 16" x 22". 23.37



MC-1683 Lighted double cabinet. Sliding doors, chrome pulls, 2-15W fluorescent lamps included. Grounded convenience outlet, turn switch. Adjustable shelves; razor blade slots. Plate glass mirror. Wall opening: 29 1/2" x 18 1/4" x 3 3/8". Overall: 35 1/2" x 19 1/2". Mirror size: 29 1/2" x 18". Includes unique child-protected safety lock. 13.77

MC-1681 Same but unlighted. Overall: 31" x 19 1/2". 25.17



Regal French Cabinets Delicate French gold latticework crowns this illuminated mirror and cabinet combination. Surface mounted for easy installation. White diffuser. Grounded convenience outlet and turn switch. Sliding plate glass mirror doors. Extends 6".

MC-1792 Height 37", width 24". Compartment 6" x 24". Mirror: 24" x 24". Up to 4-60W. 28.77
MC-1793 Height 37", width 31". Compartment 6" x 31". Mirror: 24" x 31". Up to 6-60W. 31.77
MC-1794 Height 37", width 42". Compartment 6" x 42". Mirror: 24" x 42". Up to 8-60W. 11.97

Bathroom Lighting



French Decor Lighting Delicate lattice of French gold stars over white fiberglass diffuser. Knock-outs for switch and grounded convenience outlet. Height 4 1/4". Extends 5".

M-1732 Length 18". Up to 2-75W. 7.29

M-1733 Length 24". Up to 4-60W. 10.62

M-1734 Length 31". Up to 6-60W. 13.29



Fluorescent Mirror Lighting Fixtures White ribbed plastic diffuser with chrome trim—for alongside or over mirror. "On-off" switch. Grounded convenience outlet. Height 2 3/4". Extends 5".

M-317 Length 31". 1-20W fluorescent trigger start. Lamp included. 11.79

M-318 Length 49 1/2". 1-40W rapid start fluorescent, not included. 14.79

M-320 Length 25 1/2". 1-20W trigger start fluorescent, not included. 11.37

M-321 Length 37 1/2". 1-30W rapid start fluorescent, not included. 14.10

STAR LIGHT PRODUCTS

Residential Lighting Fixtures



SL-160 Crisp white crystal ice design on frosted white glass with gold finish edging. Diameter 18"; depth 6 1/4". Up to 4-60W. 7.47



SL-8405 Hall or foyer lantern with smoke glass shade. Gallery, bottom trim and chain finish in rich antique brass. Length 15" to 32". Diameter 9". Up to 3-40W candelabra base lamps. 17.37

SL-950-12 Pulldown in antique brass with lace gallery and white bent glass diffuser. Adjusts from 15 1/4" to 44 1/4". Diameter 14". 3-way switch. Up to 3-60W. 14.37

SL-950-14 Same as SL-950-12, in antique copper. 11.37

Trimless Opal Versatile all-purpose stylings in opal glass. Mount flush to ceiling. New spring latch lock-up simplifies relamping.

Square Series

- M-1510 8 3/8" square. Depth 4 5/16". 1-75W. 4.17
- M-1511 10 3/8" square. Depth 4 3/8". 2-60W. 6.27
- M-1512 12 3/8" square. Depth 4 1/2". 2-75W. 8.37

Round Series

- M-1513 Diameter 8 3/8". Depth 4 5/16". 1-75W. 3.87
- M-1514 Diameter 10 3/8". Depth 4 3/8". 2-60W. 4.98
- M-1515 Diameter 12 3/8". Depth 4 1/2". 2-75W. 7.77



SL-8015 Mediterranean styling in a fashionable 5-light chandelier. Verde-green antique finish and antique brass gallery trim and chain. Length 16" to 35". Diameter 20". Up to 5-40W candelabra base lamps. 31.17



SL-8515 Verde-green wall bracket matches styling of SL-8015 chandelier. Tinted optic glass. Height 8 1/2". Width 5". Extends 7". Up to 1-40W candelabra base lamp. 4.95

SL-166 Decorative, frosted clear lines on white bent glass. 17" square; 5 1/2" deep. Up to 4-60W. 5.76



SL-8011-12 Five-light wagon wheel chandelier in antique brass. Length to 25". Diameter 30". Up to 5-100W. 10.17

SL-8011-14 Same as SL-8011-12, in antique copper. 10.17



Wagon Wheel Chandeliers
The warm hospitality of Frontier Americana is recreated in the wagon wheel chandelier. All feature grained wood wagon wheels, and antique finish metalwork.

SL-8010-12 Three-light chandelier in antique brass. Length to 22 1/2". Diameter 21". Up to 3-100W. 26.37

SL-8010-14 Same as SL-8010-12, in antique copper. 26.37



SL-8501-12 Wall bracket in antique brass finish matches wagon wheel chandelier SL-8011-12. Height 12 1/2". Width 7". Extends 8 3/4". Up to 1-100W. 4.77

SL-8501-14 Same as SL-8501-12, in antique copper. 4.77



SL-8601-12 Striking close-to-ceiling design matches many popular kitchen appliance styles. Scalloped bent glass finished in antique brass. White bent glass diffuser. Depth 6 1/4". 14" square. Up to 3-75W. 12.57

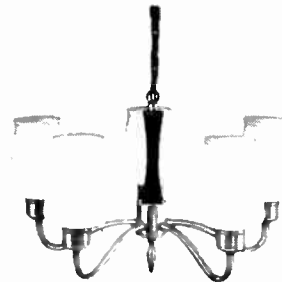
SL-8601-14 Same as SL-8601-12, in antique copper. 12.57



SL-320 Delicate crystal floral design adds charm to white glass globe. Polished brass holder. Knockout for switch. Depth 6". Up to 1-75W. 1.32

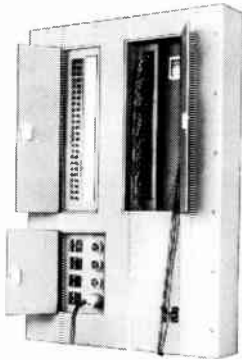


SL-8201 Colorful Victorian-style pulldown. Green and black leaf design on amber-gold textured glass. Adjusts from 11" to 28". Diameter 17". Up to 3-60W. 18.57



SL-987 Dramatic 5-light chandelier for contemporary decor. Scalloped white glass shades and polished brass metalwork. Length 14 1/4" to 30 3/4". Diameter 20 1/2". Up to 5-75W. 16.17

HUB FLEXIBLE STAGE PLUGGING PANEL



34" x 54" — surface or flush mounting (specify when ordering). With 24 stage lighting circuits, each with a circuit breaker and flexible cord and plug. Cords plug into jacks to provide control by circuit breaker switches, or can be used to extend control to portable switchboard (Hub No. 2954, order separately). Twistlock receptacles provide connections to as many as 4 portable switchboards. Plugging panels also available with 30 or 36 circuits. Prices on application.

Cat. No.	Electrical Service	Each
1588-124	Single-phase, 3-wire	\$701.36
1588-224	Three-phase, 4 wire	723.36

HUB BORDERLIGHTS

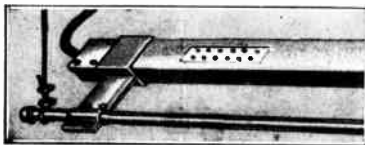
With Individual Reflectors and Glass Roundels



Available in any length. Individual Lume-Chrome reflectors with clear and natural colored convex, heat-resisting glass roundels. Hinged retainer rings take either roundels or metal frames for gelatin. Glass roundels stand, with chain hangers, heavy scenery guards, splice box and terminal block. Wired for 3 or more colors and additional circuits as required for work lights or spotlights.

Cat. No.	Lamp Recp.	Lamp Wattage	Outlet Spacing, In.	Per Ft.
21623	Medium	100	6	\$12.50
21625	Medium	150	6	12.50
21830	Medium	200	8	14.22
21235	Mogul	300/500	12	21.11

HUB BATTEN BOXES



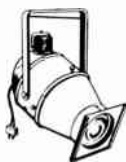
No. 20009 consists of 5x3" wireway, any length, with clamp brackets for fastening to 1 1/4" or 1 1/2" pipe batten. Completely wired

with specified number of receptacles, ganged and spaced as required. Removable splice cover and terminal block at feed location.

No. 20005 is same as No. 20009 but with 4x3" wireway and 18" leads of 2- or 3-conductor flexible cable and half-slip connectors.

Prices on application.

HUB ELLIPSOIDAL SPOTLIGHT



500/750 watt spotlight with 22° max. beamspread for use as auditorium ceiling spot at 20' to 40' projection distance, and for modeling light from side or overhead on stage. With 6" piano convex lens, framing shutters, focus adjustment, color frame grooves, yoke adjustment for angling, 3' asbestos lead, 15A or 20A, 2-pole plug.

No. 8764 Spotlight.....each \$38.89

HUB FLUSH FLOOR POCKETS



2-wire, 250 volts, heavy gauge construction with cast iron, non-skid safety-tread top, self-closing flush door. Mounts in any location of stage floor. Pilot light for each receptacle, automatically illuminated when door is opened. Designation discs show service of each receptacle. Box is 6 3/4" deep, 10 3/4" long. Comes with 1 male plug per gang of receptacle type ordered.

Cat. No.	No. Gangs	Box Width, In.	Each	
			With Pilot Light	Without Pilot Light
20 AMP. 2-WIRE TWISTLOCK RECEPTACLES				
10001	1	6 3/4	\$22.22	\$14.44
10002	2	6 3/4	26.67	18.89
10003	3	12 1/4	36.67	28.89
10004	4	12 1/4	46.11	38.33
15 AMP. DUPLEX PIN PLUG RECEPTACLES				
10031	1	6 3/4	22.22	14.44
10032	2	6 3/4	30.28	22.50
10033	3	12 1/4	40.00	32.22
10034	4	12 1/4	50.56	42.78

HUB WALL POCKETS



Flush or surface type, 2-wire, 250 volts. Housing is 7" high, 5 1/4" deep. Comes with 1 male plug per gang of receptacle type ordered. Can be mounted on any stage wall, balcony front soffits, or behind ceiling spotlights. Comes in open type only with twistlock receptacles, with spring-hinged doors or open type for pin plug (specify when ordering).

Cat. Nos.	Flush Mounted	Surface Mounted	No. Gangs	Hsg. Width, In.	Each	
					Open Type	With Doors
20 AMP. 2-WIRE TWISTLOCK RECEPTACLES						
11001	11551	1	6	\$12.22	.....	.....
11002	11552	2	7 3/4	18.06	.....	.....
11003	11553	3	9 7/8	26.39	.....	.....
11004	11554	4	12	33.33	.....	.....
11005	11555	5	.....	43.33	.....	.....
11006	11556	6	.....	51.11	.....	.....
15 AMP. DUPLEX PIN PLUG RECEPTACLES						
11031	11301	1	6	12.50	13.33	.....
11032	11302	2	7 3/4	19.73	21.39	.....
11033	11303	3	9 7/8	28.62	31.11	.....
11034	11304	4	12	35.57	38.89	.....
11035	11305	5	.....	46.96	51.11	.....
11036	11306	6	.....	57.24	62.22	.....

HUB FRESNEL SPOTLIGHT



250/500/750 watt spotlight for area spotlighting on stage. 6" fresnel lens with 17° to 62° variable beamspread. Has beamspread adjustment, color frame grooves, yoke adjustment for angling, 3' asbestos lead, 15A or 20A, 2-pole plug.

No. 8758 Spotlight.....each \$21.20

HUB WIDE BEAM FLOODLIGHT



300/500 watt diffuse pattern floodlight for use as tonal flood on teaser batten or for medium intensity floodlighting elsewhere on stage. With 15" matte surface ellipsoidal Alzak reflector, color frame grooves, yoke adjustments for angling, 3' asbestos lead, 15A or 20A, 2-pole plug.

No. 8360 Floodlight.....each \$26.48

CAPITOL STAGE LIGHTING EQUIPMENT



No. 901

**No. 901 FOLLOW SPOTLIGHT
(1000-1500 watt)**

Rugged, versatile. Designed to throw an even white 18" head-spot at distance of 100' or to flood an entire stage. (No special wiring required). Rear operated precision iris instantly adjust size of spot. Rear operated shutter masking device for special effects. 6 magnetically held color-frames in built-in color box. Hinged hood. Three-legged castered base. Lamp includedeach \$250.00



MARK IV

MARK IV TROUPER CARBON ARC FOLLOW SPOTLIGHT

Designed for theatres where distance from booth to stage is approx. 200'. Spotlight is complete as illustratedeach \$1300.00

**6" ELLIPSOIDAL SPOTLIGHTS
(500-750 watt)**

No. 650 — Front accent light. FEATURES: four built-in framing shutters, two 6"x9" heat resistant lenses, alzak reflector, color frame, yoke and pipe clamp.....each \$60.00

No. 651 — Shall include one 6" step lens with ceramic painted riserseach \$55.00

No. 652 — Shall include one mounted 3" iris.....each \$76.50

No. 653 — Shall include one mounted 3" iris with a follow handleeach \$77.50

No. 654 — Same features and shall be fitted to receive pattern templateseach \$77.50

No. 655 — Same features and shall include only one 6"x9" heat resisting lens.....each \$55.00

No. 6504 — Same features but with two 4 1/2"x6 1/2" plano convex lenseseach \$60.00

No. 850 8" ELLIPSOIDAL SPOTLIGHT

(500-750-1000 watt)

Front accent light for distance of 40' to 60'. FEATURES: Same as No. 650 but with one 8"x10" heat resistant lens.....each \$95.00

No. 8508 8" ELLIPSOIDAL SPOTLIGHT

(1000-1500-2000 watt)

Front accent light for distances to 100'. FEATURES: Same as No. 850 but with mogul prefocus socketeach \$130.00

No. 195 6" PLANO CONVEX SPOTLIGHT

(1000-1500 watt)

A most effective follow spotlight mounted on a stand. Designed for use up to 50', this is also a basic unit to receive revolving color wheels and special effect devices. FEATURES: 6" plano convex lens, 25' of cable with full connector, long focusing device for simplicity of operation, full telescoping stand. Color box is availableeach \$82.00



No. 195

**No. 1001 FOLLOW SPOTLIGHT
(2100 watt)**

The most powerful incandescent ever made. An ideal follow spot for distance to 150'. Comes with magnetically held 6 color changer, step down transformer, rear controlled iris and shutter handles, 25' rubber cable and plug. (No special wiring required)....ea. \$550.00



No. 1001

**No. 904 FRESNEL SPOTLIGHT
(75-150 watt)**

For photo highlights or displays. FEATURES: reflector, color frame, variable external focus, yoke and base, frame and 6' of cord and plug.....each \$14.00

**No. 280 6" FRESNEL SPOTLIGHT
(250-500-750 watt)**

High intensity center for dramatic stage fill or area lighting. FEATURES: 6" fresnel lens, lead wires, hinged front door, frame yoke and pipe clamp, variable external focus, medium prefocus socketeach \$24.00



No. 904

**8" FRESNEL SPOTLIGHTS
(1000 watt)**

No. 905 — Designed to throw to 40'. FEATURES: mogul screw socket, variable external focus, asbestos leads, 8" fresnel lens, specular reflector, yoke and pipe clampeach \$60.00

No. 905A — Same but with mogul prefocus socket.....each \$60.00

No. 905OV — Same but with oval beam lens.....each \$68.00

No. 905-PO — Same with screw feed. Pole operated.....each \$92.00

**12" FRESNEL SPOTLIGHTS
(1000-2000 watt)**

No. 912 — An efficient soft edged spotlight designed for areas where high intensity is required. A basic TV studio light, it is a perfect unit for back, top or key lighting from 15' or more.....each \$170.00

No. 912-PO — Same but with pole operated features...ea.\$199.00

No. 913 — Same features as No. 912 and includes telescoping stand and balanced caster base instead of the pipe clamp, 25' of rubber cable and built-in fully enclosed switcheach \$257.00



No. 280



No. 905

**No. 916 16" CAPCOLITE
(5000 watt)**

Largest fresnel spotlight made by Capitol. Provides an immense "punch" of light that can be controlled from 20' to 55'. Same features and flexibility as the 2000 watt Capcolites but with the greatly increased intensity provided by the 16" lens and 5000 watt bulb.....each \$260.00

**No. 1 OLIVETTE
(500-1000-1500 watt)**

Stage side light for even uniform scene illumination. FEATURES: telescoping stand, reflector, double color frame grooves, universal swing bracket, base and 25' cable and plug.....each \$45.00



No. 1

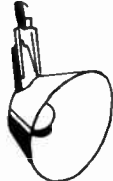
CAPITOL STAGE LIGHTING EQUIPMENT



No. 6614

**No. 6614 SCOOP FLOODLIGHT
(300-500 watt)**

An intense flood for photographic work, TV studio or theatrical eye lighting. FEATURES: 14" ellipsoidal reflector, asbestos leads, frame holder, yoke and pipe clampeach **\$31.00**



No. 661

**No. 661 SUPER SCOOP
(750-1000-1500 watt)**

For theatrical or TV lighting where intense wash or backdrop fill is required. FEATURES: same as No. 6614 but with 18" ellipsoidal reflectoreach **\$39.00**

BORDERLIGHTS

For general stage lighting and toning.

AL — For stages with height exceeding 35'. Equipped with reflectors and frames, 300-500w lamps**\$21.00/ft.**

AB — For stage height of 30'-35'. Equipped with reflectors, frames and hangers, 150-300w lamps**\$21.00/ft.**

PR40 — For stage height of 20'-30'. Combination frame with glass roundels, available in 3 or 4 colors complete with hanging devices, 75-300 R40 lamps.....**\$17.00/ft.**

520 — For low ceiling stages, 4½" on center, complete with reflectors and colored glass roundels, 75w general service lamps**\$14.00/ft.**

528 — For stage height of 15'-25'. Equipped with reflectors, glass roundels, retaining ring, hangers and splice box, 75-100-150w lamps**\$15.00/ft.**

532 — For stage height of 20'-35'. Same features as the above No. 528**\$17.00/ft.**

MINI-PORT DISPLAY SPOT

One of the world's smallest and most versatile fresnel, the 616 unit consists of an approved molded receptacle with capability to accommodate a 75, 100 or 150 watt G-16½ single contact bayonet base lamp; a spherical special processed aluminum reflector, a Capitol heat resistant 3" diameter fresnel type lens. All enclosed in a streamlined cast aluminum housing not larger than 8¾" in length, 6½" knob to knob width and 7½" in height.

No. 616 — Includes 3" diameter fresnel type lens.....each **\$21.00**

No. 617 — Includes a single 1¾" x 3¾" double convex narrow beam lens, two plano convex lenses, 1½" x 2¼"; objective spread is 15 degreeseach **\$46.00**

No. 618 — Includes two 1¾" x 3¾" double convex medium spread lenses, two plano convex lenses, 1½" x 2¼"; objective spread is 28 degreeseach **\$47.00**

No. 619 — Includes three 1¾" x 3¾" double convex wide spread lenses, two plano convex lenses, 1½" x 2¼"; objective spread is 45 degreeseach **\$48.00**



No. 520



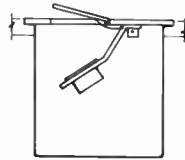
No. 528



No. 532



No. 616



No. DS-100

DISAPPEARING FOOTLIGHTS

The DS-150 — 150 watt footlights are 5'2" sections. Each section contains 9 sockets, wired for 3 colors. Diffused spun aluminum alzak processed reflectors with natural colored, heat-resisting glass roundels held in place by slip-type retaining rings. Mercury switches in each section automatically turn off the light when the footlight troughs are closed. The DS-100 for 60, 75 or 100 watt lamps are built and wired the same as the DS-150, except that each section contains 12 sockets and reflectors. These disappearing footlights should be installed within the stage flooring and therefore are generally used in new construction or in remodeling.

DS-100 Footlight.....each **\$137.50**
DS-150 Footlight.....each **145.00**



No. 191

REVOLVING CRYSTAL BALLS AND SHOWERS

These units always add color, sparkle, mood and intrigue wherever and whenever used. Simple to use, just plug it in. A must for every school dance function.

Countless tiny colored lights seem to float in an ever-changing pattern when several colored spots are directed at the shower or ball. Available sizes are:

No. 191 18" Shower ..ea. **\$150.00**
No. 286 24" Shower ..ea. **175.00**
No. 193 30" Shower ..ea. **280.00**
No. 194 18" Ballea. **285.00**

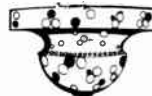


No. 194

GRIDIRON JUNCTION BOXES

Constructed of 14 ga. cold rolled steel and measure 15"x10"x4". Finished in flat black. All units furnished with cable clamps and knockouts.

GIJB-6 6 cir.-12 wire.....**\$30.00**
GIJB-8 8 cir.-16 wire..... **32.00**
GIJB-12 12 cir.-24 wire..... **34.00**
GIJB-16 16 cir.-32 wire..... **36.00**
GIJB-20 20 cir.-40 wire..... **38.00**
GIJB-24 and overP.O.A.



No. 193

FLOOR AND WALL POCKETS

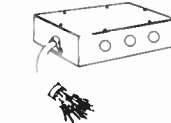
All pockets are supplied with porcelain female receptacles and stage plugs. Pin connector or twist lock type available. Add "P" or "TL", if required, to catalog number when ordering.

Floor Pockets

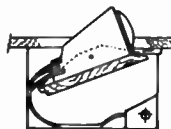
No. 152 1 Plug Outlet**\$23.00**
No. 153 2 Plug Outlets **33.00**
No. 154 3 Plug Outlets **42.00**
No. 155 4 Plug Outlets **55.00**
(Add "G" to catalog number if ground is required.)

Wall Pockets

No. 164 1 Plug Outlet**\$20.00**
No. 165 2 Plug Outlets **28.00**
No. 166 3 Plug Outlets **38.00**
No. 167 4 Plug Outlets **46.00**
(Add "SM" to catalog number if surface mounted is required.)

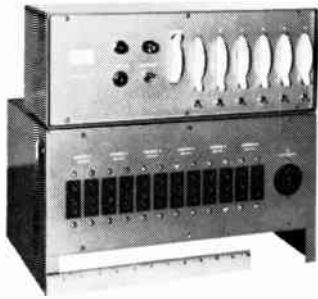


No. GIJB-6

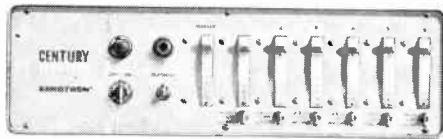


No. DS-150

CENTURY EDKOTRON® LIGHTING CONTROL PACKAGED SYSTEM



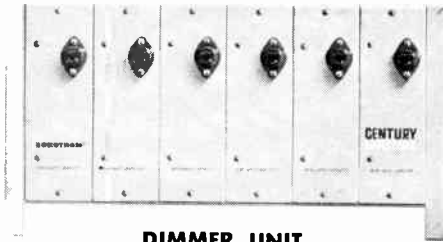
The EDKOTRON is a low-cost, lightweight, modular, portable, electronic dimming system. It is a complete control facility which may be expanded as budget or other requirements dictate. The system can include either 1800 watt or 3000 watt silicon controlled rectifier dimmers. It provides remote control at low cost. Two-scene presetting is possible by adding additional units. A six-1800 w dimmer cabinet, with its control unit, weighs less than 40 pounds and is easily portable.



CONTROL UNIT

One Control Unit will control six dimmers in one #260 Dimmer Unit or six dimmers in two #266 Dimmer Units.

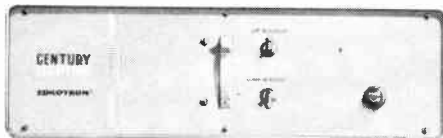
The Control Unit includes individual calibrated controllers, individual function switches ("Independent-Off-Master"), a master controller, a blackout switch, and a key switch.



DIMMER UNIT

The Dimmer Unit contains controlled rectifier electronic dimmers with no forced draft fans or blowers required. They provide full intensity variations from 0 to 115 volts.

Dimmer Units come in two wattage classifications. The #266 series dimmer units will accept a combined load of up to 3000 watts. Series #260 will control up to 1800 watts. There are six 1800 watt dimmers contained in the 260 Series; three 3000 watt dimmers are found in each 266 Dimmer Unit. Two 266 Dimmer Units may be controlled by one Control Unit. Dimmer Units may be supplied with several types of load connectors.

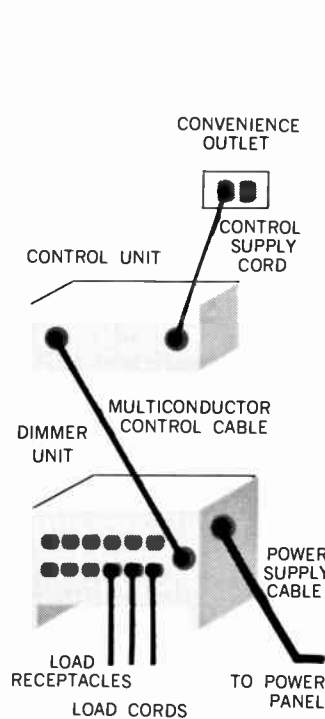


MASTER CONTROL UNIT

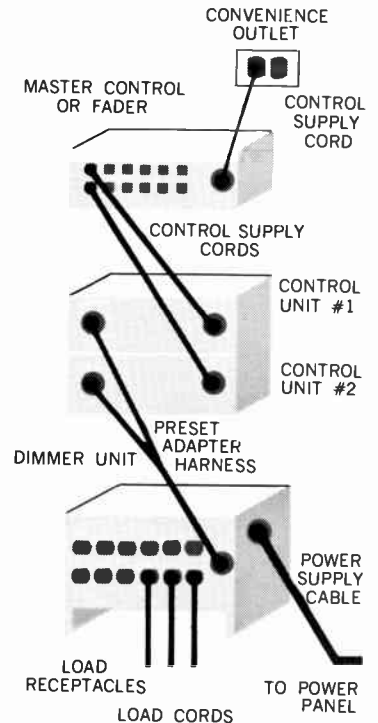
The Master Control Unit serves two purposes.

1. As a master, it can control up to a maximum of six #261 Control Units. In this condition, each individual controller has a master handle (located on the Control Unit), and all Control Units have a grand master (located on the Master Control Unit).
2. The Master Control Unit will also operate as a cross fader; this allows presetting of Control Units. In this case, two Control Units are attached to the same Dimmer Unit. The Master Control Unit allows the operator to cross fade between the two Control Units, thus permitting the presetting of the Dimmer Unit controls not "in use."

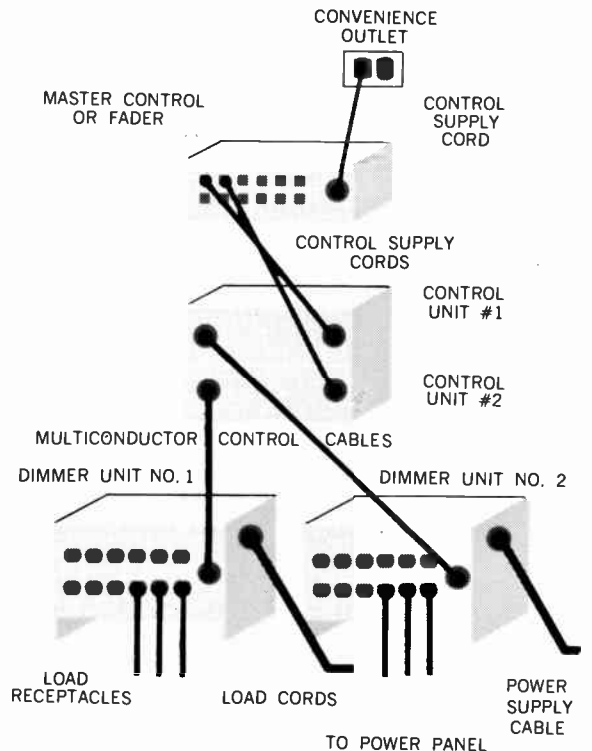
SINGLE DIMMER UNIT AND CONTROL



SINGLE DIMMER UNIT WITH TWO SCENE PRESETS AND FADER



SEVERAL DIMMER UNITS AND UNIT CONTROLS CONNECTED TO ONE MASTER CONTROL



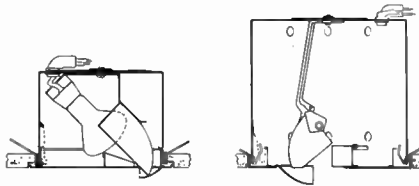
CENTURY EDKOTRON® LIGHTING CONTROL PACKAGED SYSTEM

CAT. NO.	DESCRIPTION	NET WEIGHT (LBS.)	USER PRICE
	EDKOTRON® Modular Dimmer Units each containing: 6 - 1800 Watt Dimmers Built-in Flush Type Outlets or Terminals as indicated:		
260TL	12 - 15A 2 Pole Twistlock Receptacles	25	\$550.00
260GTL	12 - 15A Grounding Twistlock Receptacles	25	550.00
260-2TL	6 - 20A 2 Pole Twistlock Receptacles	25	550.00
260-2GTL	6 - 20A Grounding Twistlock Receptacles	25	550.00
260GR	12 - 15A Grounding Parallel Blade Receptacles	25	550.00
260GP	12 - 20A Grounding Pin Receptacles	25	565.00
260S	Terminals for Solid Connection (with back-box for wall mounting) Male Receptacle P-310RP	25	550.00 1.20
Fuse	KAA-15		1.60
	EDKOTRON® Modular Dimmer Units each containing: 3 - 3000 Watt Dimmers Built-in Flush Type Outlets or Terminals as indicated:		
263TL	12 - 15A 2 Pole Twistlock Receptacles	25	550.00
263GTL	12 - 15A Grounding Twistlock Receptacles	25	550.00
263-2TL	6 - 20A 2 Pole Twistlock Receptacles	25	550.00
263-2GTL	6 - 20A Grounding Twistlock Receptacles	25	550.00
263GR	12 - 15A Grounding Parallel Blade Receptacles	25	550.00
263GP	12 - 20A Grounding Pin Receptacles	25	565.00
Fuse	KAA-20		1.60
Fuse	KAA-30		1.60
261	EDKOTRON® Control Unit for 260, or 2-263 Dimmer Unit	13	121.00
262	EDKOTRON® Master or Fader Control Unit	11	88.00
272	25' Control Cable, Male & Female Connectors	5	19.00
265	Preset Adaptor Harness with Male and Female Connectors	2	16.00
270	Adaptor Harness to connect 2-263 to 261 Control Unit	2	16.00
	EDKOTRON® Optional Modular Filter Units to Minimize Audio-Video interference in Television Studios, (for use with #260 series dimmer units only) each containing: 6 - 1800 Watt Filters 6 - 3' Leads with Connectors 12 - Built-in Flush Type Outlets or Terminals as indicated:		
266TL	12 - 15A 2 Pole Twistlock Receptacles	25	315.00
266GTL	12 - 15A Grounding Twistlock Receptacles	25	315.00
266-2TL	6 - 20A 2 Pole Twistlock Receptacles	25	315.00
266-2GTL	6 - 20A Grounding Twistlock Receptacles	25	315.00
266GR	12 - 15A Grounding Parallel Blade Receptacles	25	315.00
266GP	12 - 20A Grounding Pin Receptacles	25	326.00

CONTACT NEAREST GRAYBAR OFFICE FOR
COMPLETE INFORMATION AND PRICES

KLIEGL ARCHITECTURAL LIGHTING EQUIPMENT

KLIEGL WALL WASHERS

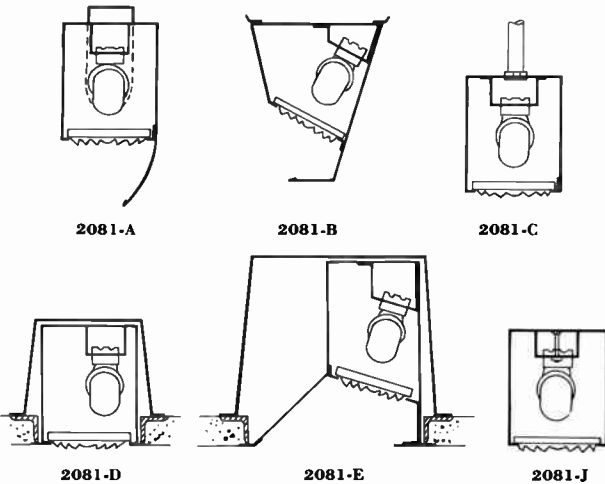


Smooth illumination from ceiling line to floor line with inconspicuous light source. Spacing of 3 1/2' from wall on 3 1/2' centers provides uniformly even light wash.

Cat. No.	Lamp	Price
2174	75R/FL	\$35.00
2175	150R/FL	55.00
2177	150/300R/FL	75.00
2178	Q500T3	85.00

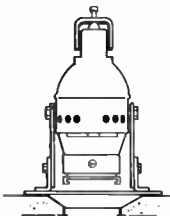
NOTE: Supplied with plaster ring and greenfield connector. For mounting in tile ceilings, add Suffix "T" to number (for overlap plate and bar hangers). Add \$5.00 List.

KLIEGL LENS STRIPLIGHTS



Delivers uniformly even wash of light over vertical surfaces. Used close to vertical surfaces, behind valances or recessed in ceilings. Accommodates standard 25 or 40 watt T-10 reflector lamps above heat-resistant Fresnel lenses. Limited beam direction adjustment possible. Lengths in 6" increments. Prices on application.

KLIEGL ADJUSTABLE BEAM DOWNLIGHTS VERTICAL MODEL

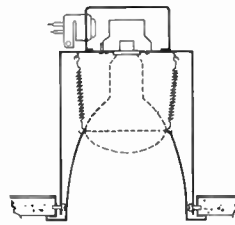


Ellipsoidal type units with slide-in shutters for shaping beam. Wide-beam units for general lighting where some cut-off of spill light is desirable; narrow-beam units for high ceilings or coverage of small areas, with tight beam control.

Cat. No.	Beam Spread	Watts	Lamp No.	Price
2164	65°	{250	{250/T14/9	\$ 63.50
2164NB	28°	{500	{500/T14/7	63.50
2166	65°	1000	1M/T24/12	115.00
2166NB	28°	1000	1M/T24/12	115.00
2168	65°	{1500	{1500/T24/6	128.00
2168NB	28°	{2000	{2M/T30/1	128.00

NOTE: All above are top relamping. Bottom relamping units available. Details on application. Units furnished with plaster ring mounting plate, and greenfield connector.

RECESSED OPEN REFLECTOR DOWNLIGHT



Low brightness cone-type reflector downlight. For general coverage applications; restaurants, lobbies, waiting rooms. Minimum trim below ceiling line. Black Alzak reflector standard, other colors available on order.

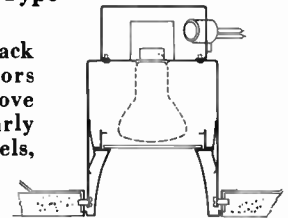
Cat. No.	Wattage	Lamp	Price
2705	50	50R20	\$23.00
2706	75	75R30	25.00
2707	150	150PAR/SP	30.00
2708	150	150R/SP	37.00
2709	300	300R/SP	42.00
2710	200	200PAR46/3MFL	48.00
2711	300	300PAR56/MFL	56.00
2712	500	500PAR64/MFL	60.00

NOTE: Add Suffix "A" for overlap cone; "B" for flush cone. If for dry ceiling, also add suffix "T" for bar hangers; add \$5.00 to price for Nos. 2711 and 2712—\$4.00 for other models.

RECESSED OPEN REFLECTOR DOWNLIGHT

Color Filter Type

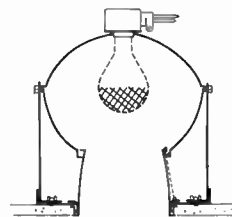
Variation of the 2700 series. Black reflector standard; other colors available on order. Color filter above reflector makes unit particularly useful in clubs, restaurants, hotels, and for decorative applications.



Cat. No.	Wattage	Lamp	Fixture Price	Color No.	Filter Price
2805	50	50R20	\$25.00	2805C	\$2.75
2806	75	75R30	29.00	2806C	2.75
2807	150	150PAR/SP	35.00	2807C	4.20
2808	150	150R/SP	42.00	2808C	4.20
2809	300	300R/SP	46.00	2809C	5.50
2810	200	200PAR46/3MFL	52.00	2810C	4.20
2811	300	300PAR56/MFL	62.00	2811C	6.00
2812	500	500PAR56/MFL	68.00	2812C	8.50

NOTE: Add Suffix "A" for overlap cone; "B" for flush cone. If for dry ceiling, also add suffix "T" for bar hangers; add \$5.00 to price for Nos. 2811 and 2812—\$4.00 for other models.

ULTRA LOW-BRIGHTNESS DOWNLIGHT



Minimum trim type, fully recessed fixture utilizing silver-bowl lamp for ultra low-brightness and elimination of glare at all viewing angles. Smooth, completely reflected field of light for general coverage. Black Alzak cone reflector standard; other colors available on order.

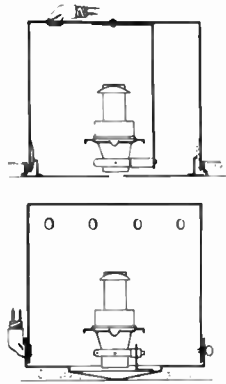
Cat. No.	Wattage	Lamp	Price
3100	100	100A/1SBIF	\$30.00
3101	200	200/SBIF	36.00
3102	{300 {500	{300/SBIF {500/SBIF	58.00

NOTE: Minimum trim fixture, supplied with plaster ring. For mounting in dry ceiling, add suffix "T" (for bar hangers) to catalog number.

KLIEGL specializes in custom-engineered equipment for a wide variety of applications. Contact GRAYBAR for recommendations and assistance.

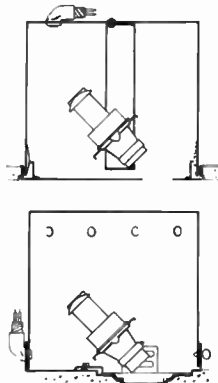
KLIEGL ARCHITECTURAL LIGHTING EQUIPMENT

KLIEGL PINHOLE DOWNLIGHTS



Vertical Projection: Choice of bottom or top relamping models for recessed ceiling installation—both available with tungsten-halogen lamps for high-intensity lighting or standard lamps for low-intensity lighting. Objective lens systems and adjustable shutters that permit shaping of beam to circular, square, or irregular patterns. Primarily effective for dramatic accent lighting above tables, lecterns, displays, models, pianos, special furniture arrangements.

Angular Projection: Choice of bottom or top relamping models—both available with tungsten-halogen lamps for high-intensity or standard lamps for low-intensity lighting. Direct illumination over sharply defined area adds unusual decorative strength to pictures, murals, fountains, sculpture. Adjustable shutters for full light-pattern control. Greater brilliance of tungsten-halogen units permits use under brighter ambient light conditions.



Cat. No.	Projection	Relamping	Watts	Lamp No.	Price
2144	Vertical	Top	100	100G16½DC	\$51.00
2145	Vertical	Bottom	100	100G16½DC	55.00
2146	Angular	Bottom	100	100G16½DC	55.00
2147	Angular	Top	100	100G16½DC	55.00
2148Q*	Vertical	Bottom	250	250Q/CL	72.00
2149Q*	Angular	Bottom	250	250Q/CL	72.00
2150Q*	Vertical	Top	250	250Q/CL	72.00
2151Q*	Angular	Top	250	250Q/CL	72.00

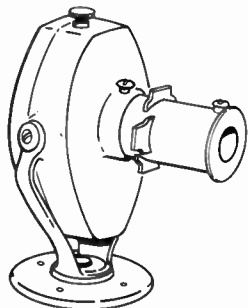
(NOTE: Standard wide beam unit has field 12' in diameter at 10' throw. For narrow beam, add suffix "N" for 7' field diameter at 10', and increased brightness.

Plaster frame, and greenfield connector supplied.

For Dry Ceiling mounting, add suffix "T", and \$5.00 list for overlap face plate and bar hangers.

*Fireproof construction only.

KLIEGL PICTURE-LIGHTING PROJECTORS

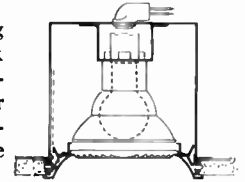


Fitted with an optical system and four-way adjustable cut-off shutters. Size and shape of light beam easily regulated to confine illumination to particular area or object. Variety of mounting arrangements (specify wall bracket or round base). Furnished with attachment plug and 9' extension cord. Adjustable yoke.

Cat. No.	Wattage	Diameter of Field @ 10'	Lamp	Price
276	100	6'	100G16½DC	\$37.00
277	250	7'	250Q/CL	50.00
277NB	250	3'	250Q/CL	60.00

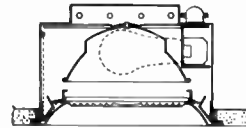
KLIEGL RECESSED LENS Open Cone Type Downlights

Soft but intensely directed lighting from ceiling up to 20' high, Alzak reflector and Fresnel lens arrangement—with black-painted risers for low surface-brightness and maximum beam control. Virtually no side glare at normal viewing angle.



SHALLOW TYPE

Shallow units are available in the 8" lens Open Cone Type for use where ceiling depth is limited and standard units cannot be used. Standard finish; white.



Cat. No.*	Lamp	Lens Dia.	Fixture Height	Price
2284-A/B/C	100A	3"	9½"	\$27.80
2285-A/B/C	100A	6"	9½"	37.00
2286-A/B/C	150A	6"	11¼"	37.00
2288-A/B/C	200/IF			
	or			
	300M/IF	8"	14"	50.00
2289-A/B/C	300/IF			
	or			
	500/IF	12"	20"	81.00
SHALLOW TYPE				
2280-A/B/C	100AX	8"	6½"	41.00
2281-A/B/C	150A	8"	6½"	41.00
2282-A/B/C	150/200A	8"	7¾"	54.00

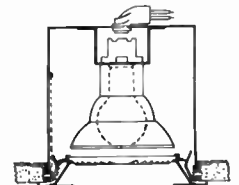
(NOTE: Supplied with plaster ring and greenfield connector. Add Suffix "T" for dry ceiling mounting. Add \$5.00 list.

*Suffix "A": Overlap trim, new construction; "B": Flush trim, new construction; "C": Overlap trim, existing ceiling.

KLIEGL REGRESSED LENS

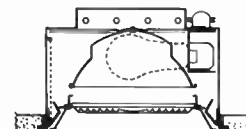
Baffled Type Downlights

Baffle permits smaller downlight aperture for inconspicuous general light source and visually clean appearance. Black-painted risers on Fresnel lens provide low surface brightness. Available with flush trim or overlap ceiling plate.



SHALLOW TYPE

Shallow units are available in the 8" baffle type for use where the ceiling depth is limited and standard units cannot be used.



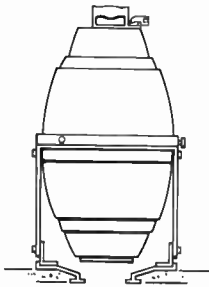
Cat. No.*	Lamp	Lens Dia.	Fixture Height	Price
2224-A/B/C	100A	3"	9½"	\$29.80
2225-A/B/C	100A	6"	9½"	39.00
2226-A/B/C	150A	6"	11¼"	39.00
2228-A/B/C	200/IF			
	or			
	300M/IF	8"	14"	52.00
2232-A/B/C	300/IF			
	or			
	500/IF	12"	20"	83.00
SHALLOW TYPE				
2220-A/B/C	100AX	8"	6½"	43.00
2221-A/B/C	150A	8"	6½"	43.00
2222-A/B/C	150/200A	8"	7¾"	56.00

(NOTE: Supplied with plaster ring and greenfield connector. Add Suffix "T" for dry ceiling mounting. Add \$5.00 list.

*Suffix "A": Overlap trim, new construction; "B": Flush trim, new construction; "C": Overlap trim, existing ceiling.

KLIEGL ARCHITECTURAL LIGHTING EQUIPMENT

KLIEGL FIXED BEAM FRESNEL LENS DOWNLIGHTS



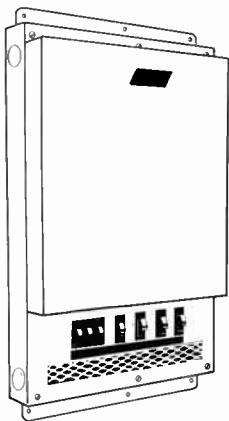
Specifically designed for general illumination of large areas from high ceilings. Concealed installation with top relamping and adjustable mounting brackets. Soft, intensely directed beam projected through small aperture in ceiling. Ellipsoidal reflector and fixed-focus lens system.

Cat. No.	Lens Dia.	Aperture	Wattage	Lamp	Price
2503	6"	6"	200	200/IF	\$ 62.00
			300	300M/IF	
2504	6 3/8"	6"	500	500T20/3	110.00
2505	6 3/8"	6"	750	750T24/1	115.00
			1000	1M/T24/12	

NOTE: Complete with greenfield connector, mounting plate, and plaster ring for aperture.

KLIEGL SCR SYSTEM

Architectural Lighting Control



Remotely controlled solid state incandescent dimming system for restaurants, ballrooms, lecture halls, museums, commercial exhibits and displays. Complete with r.f. and line noise filters, but without secondary circuit breakers. (2400-watt-capacity dimmers require no secondary circuit breaker on load side of panel.) Dimmers convection cooled; low-voltage wiring to control.

Catalog No.	No. of Dimmers	Dimmer Capacity	Panel Capacity	Price
R-67/12C	1	2.4 KW	2.4 KW	\$ 430.00
R-67/22C	2	2.4 KW	4.8 KW	708.00
R-67/32C	3	2.4 KW	7.2 KW	986.00
R-67/42C	4	2.4 KW	9.6 KW	1264.00
R-67/52C	5	2.4 KW	12.0 KW	1542.00
R-67/62C*	6	2.4 KW	14.4 KW	1845.00
R-67/13C	1	3.0 KW	3.0 KW	430.00
R-67/23C	2	3.0 KW	6.0 KW	708.00
R-67/33C	3	3.0 KW	9.0 KW	986.00
R-67/43C	4	3.0 KW	12.0 KW	1264.00
R-67/53C	5	3.0 KW	15.0 KW	1542.00
R-67/63C*	6	3.0 KW	18.0 KW	1845.00
R-67/16C	1	6.0 KW	6.0 KW	470.00
R-67/26C	2	6.0 KW	12.0 KW	785.00
R-67/36C*	3	6.0 KW	18.0 KW	1125.00

NOTE: Panel Size: 18" wide, 28" high, 6" deep. For surface or semi-recessed mounting, as ordered.

Panel complete with primary circuit breaker protection for each dimmer. For single or three phase service.

*Control voltage power supply external to panel, and included.

1—Low Voltage Remote Control Station (for each dimmer) is included with the panels as listed. Custom control on application.

KLIEGL THEATRICAL—TV LIGHTING EQUIPMENT

KLIEGLIGHTS

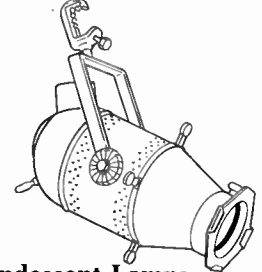
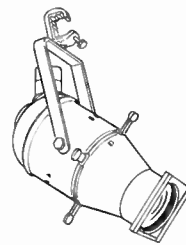


Units project high-intensity field of light and provide well-defined illumination cut-off. Ellipsoidal reflector and lens system coordinated with adjustable framing shutters. All units complete with yoke, C-clamp, 36" leads, and grounded connector.

1340 SERIES—Quartz Lamps

Cat. No.	Wattage	Lens Dia.	Beam Spread at 15 feet	Price
1340	300/650	3 1/2"	12'	\$55.00
1341	300/650	3 1/2"	9'	55.00
1342	300/650	3 1/2"	6'	55.00
1343	300/650	3 1/2"	4'	55.00

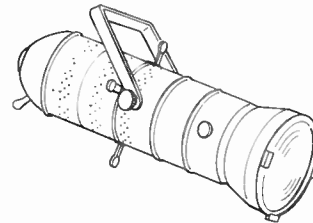
NOTE: Lamps, 300 watt EHP; 400 watt FDA or EHR; 650 watt FAD.



1360 SERIES—Incandescent Lamps

Cat. No.	Wattage	Typical Lamp	Lens Dia.	Beam Spread at 30 feet	Price
1365WE	250/ 750	500T14/8	6"	16'	\$ 69.50
1365E	250/ 750	500T14/8	6"	9'	69.50
1365/8E	250/ 750	750T14	8"	6'	102.00
1366E	1000/2000	1M/T24/5	6"	14'	143.50
1368E	1000/2000	2M/T30/1	8"	10'	143.50

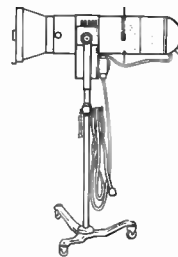
NOTE: 1365Q Series also available for use with EHB, EHD, EHF, and EHG tungsten-halogen (quartz-iodine) lamps. Prices on application.



1357 SERIES—Quartz Lamps

Cat. No.	Wattage	Lamp	Lens Dia.	Beam Spread at 50 feet	Price
1357/6W	1000	EHS or DWT	6"	22'	\$120.00
1357/6	1000	EHS or DWT	6"	15'	120.00
1357/8	1000	EHS or DWT	8"	10'	140.00
1357/10	1000	EHS or DWT	10"	6'	140.00
1357/12	1000	EHS or DWT	12"	5'	166.00

KLIEGL BOOTH SPOTLIGHTS



High-powered follow spots mounted on cast-ered telescopic floor stands. Furnished with built-in iris and curtain shutters, 25-foot cable, grounded connector, and on/off switch.

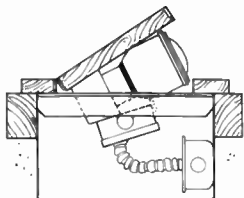
Cat. No.	Model	Wattage	Lamp	Price
1174	Super-Klieglight	2000	2M/T30/1	\$ 480.00
1175*	Super-Klieglight	2000	2M/T30/1	650.00
1178	Dynabeam Klieglight	3000	3M/T32/2	780.00
1179*	Dynabeam Klieglight	3000	3M/T32/2	1040.00
1376	Long-Range Dynabeam	3000	3M/T32/2	810.00
1377*	Long-Range Dynabeam	3000	3M/T32/2	980.00
1393*	Quartz Follow Spot	1000	DXN	600.00

NOTE: *Units supplied with built-in color boomerang.

KLIEGL THEATRICAL—TV LIGHTING EQUIPMENT

KLIEGL DISAPPEARING FOOTLIGHTS

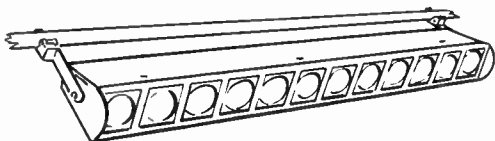
Flush-mounted in floor in 5' sections—with latching cover; mercury cut-out switches; kiln-dried-oak frame and cover; heat-resistant, colored glass roundels are standard.



Cat. No.	Outlets	Lamp	Price
832	12	100A	\$142.00
832M	12	100A	320.00

(Motor-operated)

KLIEGL PORTABLE BORDERLIGHTS



All units are equipped with Alzak reflectors, hangers with C-clamps, three pigtails at one end, grounded connectors, and combination frames with colored glass stippled, clear or spread roundels.

Cat. No.	Wattage	Typical Lamp	Length	Outlets	Price
610CP	100	100A	8'	15	\$178.00
610ACP	150	150A	8'	15	178.00
590CP	150	150PAR/FL	8'	15	168.00
602CP	200/300	300/IF	8'	12	193.00

KLIEGL CONTINUOUS BORDERLIGHTS

All units are equipped with: Alzak reflectors, chain hangers, scenery guards, colored glass roundels in combination frames or hinged holders. Prices on application.

Cat. No.	Wattage	Typical Lamp	Lamp Centers
610*	100	100A	6"
610A*	150	150A	6"
590C	150	150R/FL (or PAR)	6 1/4"
602*	200/300	300/IF	8"
603*	300/500	500PS40/IF	8"

*NOTE: Addition of Suffix "C" indicates combination frames for use with plastic color media or glass roundels. Lamp centers then increase to 6 1/4" on 610 and 610A borderlights.

NOTE: Borderlights for tungsten-halogen (quartz-iodine) lamps are available in a wide range of wattages for all applications. Details on inquiry.

KLIEGL FRESNEL SPOTLIGHTS

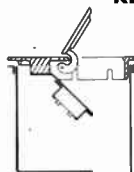


Provide even field of illumination with softly diffused outline. Variable-focus adjustment, Alzak reflector, heat-resistant lens with baked ceramic risers, color-frame grooves, yoke, C-clamp, 36" leads, and grounded connector.

Cat. No.	Wattage	Typical Lamp	Lens Dia.	Price
3506	500/ 750	EHG (Quartz)	6 3/8"	\$ 41.00
3518	1000	EHH (Quartz)	8"	76.00
43N3E*	150	150G16 1/2/3DC	3"	29.00
43NS6E**	250/ 750	500T20/64	6"	39.50
43N8E**	1000/2000	1M/G40/23	8"	74.50
43N12E	2000	2M/G48/17	12"	142.50
43N16E	5000	5M/T64/3	16"	232.50

NOTE: *Supplied with two-pole male connector.
**Available with Oval-Beam lenses at extra cost.

KLIEGL FLOOR POCKETS



Flush-mounted in floor. Hinged, self-closing, cast-iron cover notched for cable passage. Fitted with heavy-duty receptacles and furnished complete with plugs.

Pin-Plug Type—20 Ampere Rating

No. of Recept.	Two-Pole Pin Plug*	Price	Grounded Pin Plug**	Price
1	#351/955	\$27.00	#351/955G	\$28.00
2	#352/955	32.00	#352/955G	34.00
3	#353/955	41.00	#353/955G	44.00
4	#354/955	46.00	#354/955G	50.00

NOTE: *Uses Plug #955—** Uses Plug #955G.

Twistlock Type—20 Ampere Rating

No. of Recept.	Two-Pole Twistlock	Price	Grounded Twistlock	Price
1	#351/TL	\$27.00	#351/TLG	\$28.00
2	#352/TL	32.00	#352/TLG	34.00
3	#353/TL	41.00	#353/TLG	44.00
4	#354/TL	46.00	#354/TLG	50.00

Stage Plug Type—30 Ampere Rating

No. of Recept.	Grounded Stage Plug*	Price
1	#355	\$37.00
2	#356	47.00
3	#357	60.00
4	#358	79.00

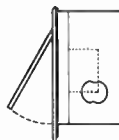
NOTE: *Uses Plug #315.

Stage Plug Type—50 Ampere Rating

No. of Recept.	Two-Pole Stage Plug*	Price	Grounded Stage Plug**	Price
1	#351	\$34.00	#351G	\$37.00
2	#352	41.25	#352G	47.25
3	#353	50.00	#353G	59.00
4	#354	67.00	#354G	79.00

NOTE: *Uses Plug #301—**Uses Plug #301G.

KLIEGL FLUSH WALL POCKETS



For flush-mounting in wall. With heavy-duty cover, hinged door, back-box, and receptacles as listed. Furnished with matching plugs.

Pin-Plug Type—20 Ampere Rating

No. of Recept.	Two-Pole Pin Plug*	Price	Grounded Pin Plug**	Price
1	#310/955	\$25.00	#361/955G	\$26.00
2	#311/955	38.00	#362/955G	40.00
3	#312/955	46.00	#363/955G	49.00
4	#313/955	54.00	#364/955G	58.00

NOTE: *Uses Plug #955—**Uses Plug #955G.

Twistlock Type—20 Ampere Rating

No. of Recept.	Two-Pole Twistlock	Price	Grounded Twistlock	Price
1	#310/TL	\$25.00	#361/TLG	\$26.00
2	#311/TL	38.00	#362/TLG	40.00
3	#312/TL	46.00	#363/TLG	49.00
4	#313/TL	54.00	#364/TLG	58.00

Stage Plug Type—30 Ampere Rating

No. of Recept.	Grounded Stage Plug*	Price
1	#361	\$34.00
2	#362	47.00
3	#363	64.00
4	#364	75.00

NOTE: *Uses Plug #315.

KLIEGL THEATRICAL—TV LIGHTING EQUIPMENT

KLIEGL FLUSH WALL POCKETS (Cont'd)

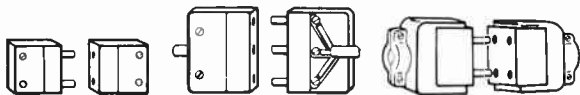
Stage Plug Type—50 Ampere Rating

No. of Recept.	Two-Pole Stage Plug*	Price	Grounded Stage Plug**	Price
1	#310	\$25.00	#310G	\$28.00
2	#311	38.00	#311G	44.00
3	#312	46.00	#312G	54.00
4	#313	54.00	#313G	66.00

NOTE: *Uses Plug #301—**Uses Plug #301G.

KLIEGL CONNECTORS

Separate Pin Plugs



Of vulcanized fibre; practically indestructible. Tension exerted by the split male pins, through close fit and "sweeping" action, assures self-clearing, low resistance, and positive contact. Standard sizes listed; others to individual requirements. Quoted as complete pairs.

Ungrounded Type

Amps.	2 pole		3 pole		4 pole	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
5	950*	\$ 2.75	3950*	\$ 5.00	4950	\$10.25
20	955*	3.30	3955*	6.50	4955	10.50
30	956*	4.25	3956*	11.00	4956	14.00
60	957*	8.25	3957*	13.20	4957	22.00
100	958*	25.00	3958	28.00	4958	42.00
200	959*	78.00				

Grounded Type

Amps.	2 pole plus ground		3 pole plus ground		4 pole plus ground	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
20	955G*	\$ 4.40				
30	956G*	8.25				
60	957G*	12.00	3957G*	\$22.00	4957G	\$38.00
100	958G*	27.00	3958G**			

NOTE: **Price on application.

Stage Plug Type

Amps.	Two Pole	Price	Two Pole Plus Ground	Price
30	301½*	\$3.50		
30			315*	\$6.50
50	301*	4.50		
50			301G	6.50

*U.L. Listed.

KLIEGL THEATRICAL AND TELEVISION CONTROL SYSTEMS

SYSTEM 70—Rehearsal/Performance Memory Lighting Control. Infinite Presetting.

CARD-READER CONTROL — Multi-Scene Presetting System with re-usable 36 channel preset cards.

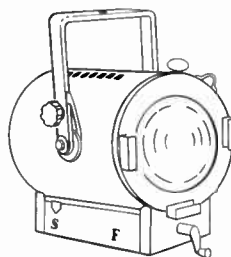
SAFPATCH—Automatic "cold-patch" cord and plug type cross-connect system.

ROTOLECTOR—Automatic "cold-patch" rotary switch type cross-connect system.

KLIEGL SCR DIMMERS—Self-contained, plug-in dimmers in 3KW, 7KW, and 12KW modules. Automatic current-sensing protection. Adjustable dimming curve.

KLIEGL R-67 DIMMERS—Panel-mounted SCR dimmers in 2.4KW, 3KW, and 6KW capacities. Low voltage remote control. Architectural dimming applications.

KLIEGL TV FRESNEL SPOTLIGHTS



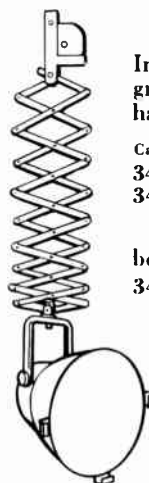
For quartz lamps, color or monochrome broadcasting. Used for key or back lighting. Variable focus from minimum spot to maximum flood with smooth beam and soft-edged field.

Cat. No.	Wattage	Lamp	Lens Dia.	Price
3507	650	FAD	6¾"	\$ 43.00
3525	1000	FER	8"	79.00
3527	2000	FEY	12"	151.00

NOTE: High performance units preferred by color broadcasters. All units with yoke, c-clamp, diffuser grooves, 36" leads with grounded connector.

KLIEGL SCOOPS

Smooth base light at high intensity levels. Includes yoke and C-clamp, 36" leads, grounded connector. Units use tungsten-halogen lamps. Shown on pantograph.



Cat. No.	Wattage	Lamp	Price
3450	500	Q500T3/4	\$43.40
3451	1000	Q1000T3/4	48.00

"Punch Scoop" — High-intensity narrow beam unit.

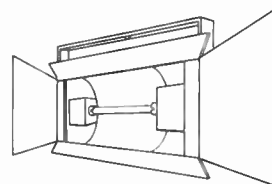
3440	1000	FER	\$68.00
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PANTOGRAPHS: Movable, counter-balanced fixture support.

Cat. No.	Maximum Load	Price
111TV	10 lbs.	\$55.00
112TV	20 lbs.	55.00
113TV	33 lbs.	75.00

KLIEGL Q-LITE FLOOD

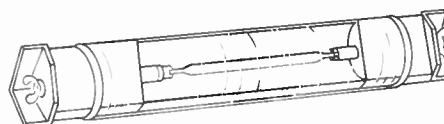
For Quartz. Constricted-space applications; base and key lighting. Intense, adjustable light. Sharp barn-door cut-off permits framing RP screens with no spill.



Cat. No.	Wattage	Typical Lamp	Price
3430	500/1000	FDF	\$67.00

NOTE: Furnished with pipe clamp, 3' cable, grounded connector. Available with barn doors, at extra cost.

KLIEGL NOOK LIGHTS



For Quartz. Specifically designed for unobtrusive placement to permit concentrated flood lighting from cramped quarters. Easily mounted and dismantled.

Cat. No.	Wattage	Typical Lamp	Price
3432	300/500	EHN	\$50.00

NOTE: Furnished with end brackets, 3' cable, and grounded connector.

CROUSE-HINDS FLOODLIGHTS

MODEL GAL MERCURY PROFILE LIGHT™

General area mercury and metallic additive floodlights. Provide predictable rectangles of even, efficient light. Asymmetrical (off-center) reflector punches light away from pole. Designed to get the most out of the new, smaller metallic vapor light source and better control of today's mercury vapor lamp. With metallic vapor lamp, gives astonishing color quality.

Sleek design adds esthetic appeal to any project. Aluminum housings can be color-customized (optional) for added distinction. Integrated design permits blending of different sizes into a single compatible system.

More than 85% of the beam generated by the reflector is utilized on the surface to be lighted—fewer poles and fewer fixtures in many areas. Can be equipped with the new 400-watt Lucalox lamp by General Electric, offering 105 lumens per watt with maximum optical control.

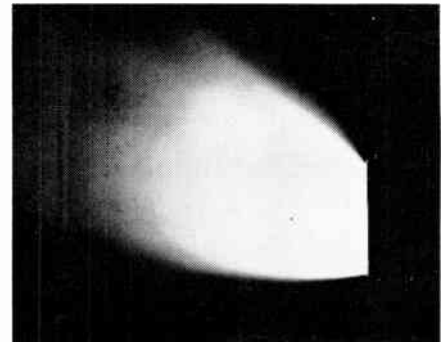
Cast aluminum door frame with tempered glass lens. Alzak aluminum main reflector hinged to door frame. Pre-wired integral ballast. Galvanized steel trunnion arm.

Unretouched photographs* shown below illustrate comparisons of controlled beam in Profile Light with other types of floodlights.

Profile Light

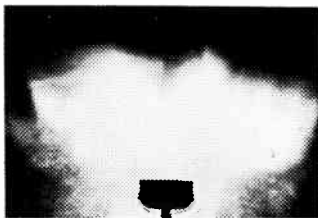


Predictable rectangular pattern—even intensity over the entire pattern—covers large area.

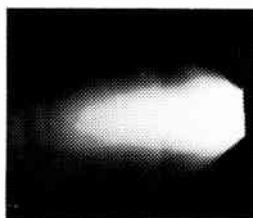


Controlled beam—minimum of waste and glare—85-100% of beam is usable—good punch away from pole.

Rectangular Floodlight

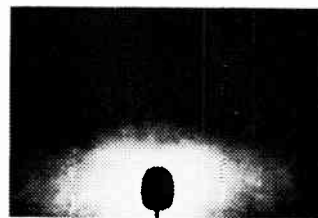


Beam spread wide, but thin—uneven lighting—drops off in intensity away from pole.

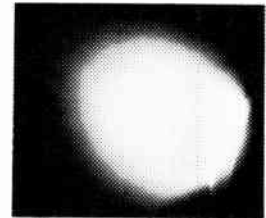


40% of beam is wasted in spill and glare.

Street Light Luminaire, Type IV

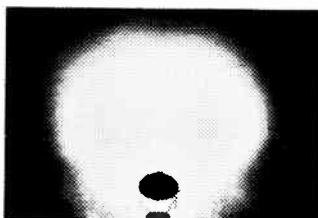


Highest intensity directly under pole—no punch away from pole.



Not a controlled beam.

Elliptical Floodlight



High elliptical beam spot at center—uneven lighting.

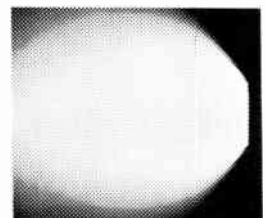


25% of beam is wasted in spill and glare.

Parabolic Reflector Floodlight



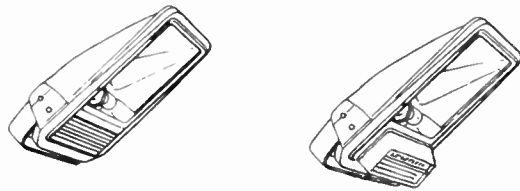
Extreme hot spot at center of beam.



25% of beam is wasted in spill and glare.

*These unretouched photographs were taken from the same location at the same camera exposures on the same film with all floodlights using metallic vapor lamps and mounted at the same height.

**CROUSE-HINDS FLOODLIGHTS
MODEL GAL MERCURY PROFILE LIGHT™**



Cat. No.	Lamp Watts	Nominal Primary Voltage	Ballast Data*	List Each
"H" Mercury Vapor Lamps				
GAL-1	175	.....	None	\$53.00
GAL-1-H-HP-2	175	120	HHR	83.00
GAL-1-H-NP-2	175	120	NHR	72.00
GAL-1-H-HP-0	175	208	HHR	83.00
GAL-1-H-HPR-4	175	240	HR	83.00
GAL-1-H-NPR-7	175	277	NR	74.00
GAL-2-H-CW-24	250	120/240	HRO	104.00
GAL-2-H-NP-2	250	120	NHR	88.00
GAL-2-H-CW-0	250	208	HRO	104.00
GAL-2-H-NPR-4	250	240	NR	72.00
GAL-2-H-CW-7	250	277	HRO	104.00
GAL-4	400	.....	None	97.00
GAL-4-H-CW-2	400	120	HRO	168.00
GAL-4-H-NP-2	400	120	NHR	140.00
GAL-4-H-CW-4	400	240	HRO	168.00
GAL-4-H-CW-0	400	240	NR	138.00
GAL-4-H-NPR-4	400	208	HRO	168.00
GAL-4-H-CW-7	400	277	HRO	168.00
GAL-4-H-CW-8	400	480	HRO	168.00
GAL-10	1000	.....	None	144.00
GAL-10-H-CW-24	1000	120/240	HRO	256.00
GAL-10-H-CW-0	1000	208	HRO	256.00
GAL-10-H-CW-7	1000	277	HRO	256.00
GAL-10-H-CW-8	1000	480	HRO	256.00
GAL-10-H-HPR-8	1000	480	HR	227.00
"M" Metallic Vapor Lamps				
GAL-1-M-HP-2	175	120	HRO	106.00
GAL-1-M-HP-0	175	208	HRO	106.00
GAL-1-M-HP-4	175	240	HRO	106.00
GAL-1-M-HP-7	175	277	HRO	106.00
GAL-4-M-HP-24	400	120/240	HRO	192.00
GAL-4-M-HP-0	400	208	HRO	192.00
GAL-4-M-HP-7	400	277	HRO	192.00
GAL-4-M-HPR-6	400	460	HR	192.00
GAL-10-M-HP-2	1000	120	HRO	298.00
GAL-10-M-HP-0	1000	208	HRO	298.00
GAL-10-M-HP-4	1000	240	HRO	298.00
GAL-10-M-HP-7	1000	277	HRO	298.00
GAL-10-M-HP-8	1000	480	HRO	298.00
Lucalox Lamps (General Electric)				
GAL-4-L-EC-2	400	120	HRO	280.00
GAL-4-L-EC-4	400	240	HRO	280.00
GAL-4-L-EC-7	400	277	HRO	280.00
GAL-4-L-EC-8	400	480	HRO	280.00

*Ballast abbreviations: HR—High Reactor; NR—Normal Reactor; HHR—High High Reactance; NHR—Normal High Reactance; HRO—High Regulated Output.

**CROUSE-HINDS FLOODLIGHTS
MODEL MV & MA MERCURY FLOODLIGHTS**



Heavy duty mercury and metallic additive floodlights. Cast aluminum corrosion-resistant housing and door frame with tempered glass lens; weather-proof. Alzak aluminum reflector. Prewired integral ballast. Galvanized steel trunnion arm.

Cat. No.	Lamp Watts	Nominal Primary Voltage	Ballast Data*	List Each
Model MV Mercury Vapor Lamps				
47739†	175	.....	None	\$42.00
48027	175	120	NHR	86.00
48029	175	240/277	NR	89.00
47739†	250	.....	None	42.00
47785	250	105/115/125	HHR	104.00
47786	250	105/115/125	NHR	86.00
47732	250	115/230	HRO	128.00
47735	250	240	HR	80.00
47736	250	240	NR	72.00
47733	250	277	HRO	128.00
48030	250	277	HR	93.00
47734	250	460	HRO	136.00
47916†	400	.....	None	96.00
47920	400	105/115/125	HHR	152.00
47981	400	105/115/125	NHR	136.00
47917	400	115/230	HRO	160.00
48031	400	208	HHR	174.00
47919	400	240	HR	154.00
48032	400	277	HR	160.00
47918	400	460	HRO	160.00
47738†	1000	.....	None	140.00
47670	1000	115/230	HRO	260.00
48033	1000	208	HRO	272.00
47707	1000	277	HRO	260.00
47708	1000	460	HRO	260.00
47709	1000	460/480	HR	218.00
47671	1000	460/480	NR	200.00
47738†	{1000 @	.....	None	140.00
47790	}1500	460/480	NR	216.00
Model MA Metallic Vapor Lamps				
47916†	400	.....	None	96.00
47975	400	120/240	HRO	176.00
47976	400	208	HRO	176.00
47977	400	277	HRO	176.00
47980	400	480	HRO	176.00

†Separate can-type weatherproof ballasts are available. Information on request.

PROFILE LIGHT™ POLE-TOP-MOUNTS



No. ML3513



No. ML3514



No. ML3515

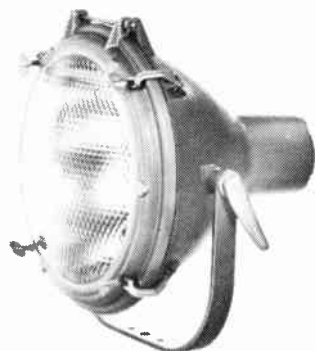
Choice of four sleek pole-top-mounts for even, efficient light. One-piece, cast aluminum construction and easy to install atop any pole. All pole-top-mounts require 3" tenon, 4" long.

Cat. No.	Description	List Each
ML3323	Single-Light Mount, 2" slip fitter	\$10.00
ML3513	Two-Light Mount produces a giant rectangular pattern	21.00
ML3514	Three-Light Mount produces a triangular pattern	42.00
ML3515	Four-Light Mount produces an evenly illuminated circle	47.00

DISCOUNT: 25%

CROUSE-HINDS FLOODLIGHTS

MODEL MVE MERCURY FLOODLIGHTS



Heavy duty mercury and metallic additive floodlights. Cast aluminum corrosion-resistant housing and door; weatherproof. Alzak aluminum reflector. Choice of lenses. Cable included.

Cat. No.	Reflector	Lens	List Each
Model MVE-14 — 400 Watt			
48089	Wide Beam	Smooth Beam	\$103.00
48090*	Wide Beam	Wide Spread	103.00
48091	Wide Beam	Diffusing	103.00
48092	Narrow Beam	Smooth Beam	103.00
Model MVE-16 — 1000 Watt†			
48093	Wide Beam	Smooth Beam	129.00
48094*	Wide Beam	Medium Spread	129.00
48095*	Wide Beam	Wide Spread	129.00

*Spread lenses are installed for maximum spread in horizontal plane. If so specified on order, they will be installed for maximum spread in vertical plane at no extra charge. Some MVE series floodlights meeting U.L. Standard 595, "Marine Type Electric Lighting Fixtures", are available. Information on request.

†Maximum lamp size: 700 watts when floodlight is directed upward above horizontal.

MODEL MVF MERCURY FLOODLIGHTS



General purpose mercury and metallic additive floodlights. Die cast aluminum receptacle housing. Alzak aluminum front and rear reflectors; rear reflector hinged for relamping. Weatherproof. Heat and impact-resisting lens. Cable included.

Cat. No.	Description	List Each
Model MVF-4—400 Watt		
48096	Narrow Beam Reflector	\$69.00
48097	Medium Beam Reflector	61.00
48098	Intermediate Beam Reflector	59.00
48099	Wide Beam Reflector	54.00
Model MVF-10—1000 Watt		
48100*	Medium Beam Reflector	85.00
48101	Wide Beam Reflector	56.00

*Has heat-resistant smooth beam lens held by clamp ring; others have heat-tempered lens, spun-sealed to reflector.

CROUSE-HINDS FLOODLIGHTS

MODEL QB QUARTZ FLOODLIGHTS



Heavy duty quartz floodlights. Cast aluminum corrosion-resistant housing and door with heat and impact-resistant glass. weatherproof. Alzak aluminum reflector. Stem or trunnion mounting.

Cat. No.	Reflector	Mounting	List Each
Model QB500 — 500 Watt†			
47793	Narrow Beam	1/2" Stem	\$29.00
47794	Medium Beam	1/2" Stem	29.00
47795	Wide Beam	1/2" Stem	29.00
47796	Narrow Beam	Trunnion	32.00
47797	Medium Beam	Trunnion	32.00
47798	Wide Beam	Trunnion	32.00
Model QB1500 — 1500 Watt††			
48140*	Narrow Beam	3/4" Stem	39.00
48143	Same as No. 48140	except with spec. high temp. lens	48.00
48141**	Medium Beam	3/4" Stem	39.00
48142*	Wide Beam	3/4" Stem	39.00
48144	Same as No. 48142	except with spec. high temp. lens	48.00
48145*	Narrow Beam	Trunnion	42.00
48148	Same as No. 48145	except with spec. high temp. lens	51.00
48146**	Medium Beam	Trunnion	42.00
48147*	Wide Beam	Trunnion	42.00
48149	Same as No. 48147	except with spec. high temp. lens	51.00

†200 watt, T2 1/2 clear or 500 watt, T3 clear or frosted.

††1500 watt, T3 clear or frosted, 208, 220, 240, or 277 volts. Or 1250 watt, T3 clear or frosted.

*Do not aim above horizontal. If aiming above horizontal is required use unit with special high temperature lens as indicated.

**Do not aim above horizontal.

MODEL QBE QUARTZ FLOODLIGHTS



Explosion-proof quartz floodlights for Class I, Groups B and D locations. Cast aluminum corrosion-resistant housing and door which includes threaded lens ring enclosing heat and impact-resistant glass lens. Cast aluminum base is joined to housing by factory-sealed coupling. Alzak aluminum reflector. Can be rotated 360° horizontally with 135° vertical range. Lamps: 200 watt, T2 1/2 clear or 500 watt, T3 clear or frosted.

Cat. No.	Description	List Each
47903	With Polished Alzak Reflector	\$148.00
47904	With Etched Alzak Reflector	148.00

DISCOUNT: 25%

CROUSE-HINDS FLOODLIGHTS

MODEL FLA INCANDESCENT FLOODLIGHTS



General purpose incandescent floodlights. Die cast aluminum receptacle housing. Alzak aluminum front and rear reflectors; rear reflector hinged for relamping. Weatherproof. Heat and impact-resisting lens. Cable included.

Cat. No.	Description	List Each
For 750, 1000 or 1500 Watt, PS-52 Lamps		
47711	Medium Beam Reflector	\$54.00
47712	Intermediate Beam Reflector	52.00
47713	Wide Beam Reflector	47.00
47714	Narrow Beam Reflector	62.00
For 1500 Watt, G-48 Lamp		
47726	Very Narrow Beam Reflector	66.00

DISCOUNT: 25%

MODEL LCQ QUARTZ TARGETEERTM



General purpose quartz floodlights. Lens gasketed to die cast aluminum housing; weatherproof. Alzak aluminum reflector. 1/2" stem or mounting base. Lamp: 250 watt, T4, Mini-can screw base, clear or frosted.

Cat. No.	Description	List Each
LCQ2	1/2" Stem Mounting	\$13.60
LCQ2B	Ground or Wall Mounting with 6' of 3/C, #18 Cord and Plug	17.20

MODEL SEQ QUARTZ DIALBEAMTM



General purpose quartz floodlights. Adjustable beam spread. Lens and gasket sealed to Alzak aluminum reflector; weatherproof. Cast aluminum body. 1/2" stem or mounting base. Lamps: 250 watt or 500 watt, T4, Mini-can screw base, clear or frosted.

Cat. No.	Description	List Each
SEQ25	Adjustable Medium to Wide Beam, 1/2" Stem Mounting	\$23.70
SEQ25B	Adjustable Medium to Wide Beam, Ground or Wall Mounting with 6' of 3/C, #18 Cord and Plug	27.30

DISCOUNTS: Std. Pkg.—37 1/2% Bkn. Pkg.—20%

CROUSE-HINDS FLOODLIGHTS

MODEL SL KNIGHT-LIGHTTM



Sign light for metallic additive lamps. Alzak aluminum reflector/housing; weatherproof. Heat and impact-resistant glass lens. Quick disconnect feature. Pre-aimed.

Cat. No.	Description	List Each
175 Watt Fixtures		
SL175	Complete w/Quick Disconnect	\$50.00
ML3365	Less Female Part of Disconnect	38.80
400 Watt Fixtures		
SL400	Complete w/Quick Disconnect	52.50
ML3364	Less Female Part of Disconnect	41.30

DISCOUNT: 25%

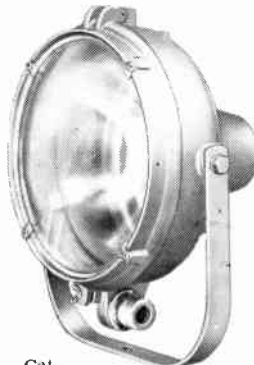
PAR38F & PAR40F LAMP FLOODLIGHTS



Utility, protective and decorative purpose incandescent floodlights. Die cast aluminum housing and mounting stem; gasketed swivel joint. High temperature silicone rubber lamp gasket with aluminum snap ring.

Cat. No.	Description	List Each
PAR38F	For 75, 100, 150 Watt, PAR38 or 75, 150, 300 Watt, R (Medium Base) Lamps, 1/2" Stem Mounting	\$3.00
PAR40F	For 300 Watt, R40 (Mogul Base) Lamp, 1/2" Stem Mounting	6.00

PAR56 & PAR64 LAMP FLOODLIGHTS



Utility, protective and decorative purpose incandescent floodlights. Cast aluminum mounting stem, housing and door; door hinged to housing. Heat-resistant glass lens with gasket.

Cat. No.	Description	List Each
For 300 Watt, PAR56 Mogul End Prong Lamps		
PAR56F	1/2" Stem Mounting	\$15.00
PAR56P	Portable Mounting	23.50
PAR56T	Trunnion Mounting	18.50
For 500 Watt, PAR64 Mogul End Prong Lamps		
PAR64F	3/4" Stem Mounting	20.00
PAR64P	Portable Mounting	28.00
PAR64T	Trunnion Mounting	23.00

DISCOUNTS: Std. Pkg.—37 1/2% Bkn. Pkg.—20%

CROUSE-HINDS FLOODLIGHTS

MODEL ADE INCANDESCENT FLOODLIGHTS



Heavy duty incandescent floodlights. Cast aluminum corrosion-resistant housing and door with heat-resisting lens gasketed to door frame; weather-proof. Alzak aluminum reflectors. Five types of lenses are available.

Cat. No.	Reflector	Lens	List Each
Model ADE-12—For 200 or 300 Watt, PS-30 or 250, Watt, G-30 or P-25 Lamps			
48062	Narrow Beam	Smooth Beam	\$67.00
48064	Narrow Beam	Wide Spread*	67.00
48065	Narrow Beam	Diffusing	67.00
48072	Wide Beam	Smooth Beam	67.00
48073	Wide Beam	Medium Spread*	67.00
48074	Wide Beam	Wide Spread*	67.00
48075	Wide Beam	Diffusing	67.00

Model ADE-12—For 250 Watt, G-30 or P-25 Lamps

48081	Narrow Beam	Plain	67.00
48083	Narrow Beam	Medium Spread*	67.00
48084	Narrow Beam	Wide Spread*	67.00

Model ADE-14 — For 500 Watt, PS-40 Lamp

48162	Narrow Beam	Smooth Beam	103.00
48163	Narrow Beam	Medium Spread*	103.00
48164	Narrow Beam	Wide Spread*	103.00
48172	Wide Beam	Smooth Beam	103.00
48173	Wide Beam	Medium Spread*	103.00
48174	Wide Beam	Wide Spread*	103.00
48175	Wide Beam	Diffusing	103.00

Model ADE-14 — For 500 Watts, G-40 Lamp

48181	Narrow Beam	Plain	103.00
48183	Narrow Beam	Medium Spread*	103.00
48184	Narrow Beam	Wide Spread*	103.00

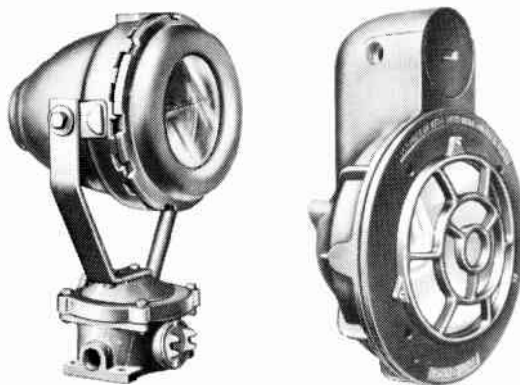
Model ADE-16 — For 1000 Watt, PS-52 Lamp

48262	Narrow Beam	Smooth Beam	129.00
48263	Narrow Beam	Medium Spread*	129.00
48264	Narrow Beam	Wide Spread*	129.00
48265	Narrow Beam	Diffusing	129.00
48272	Wide Beam	Smooth Beam	129.00
48273	Wide Beam	Medium Spread*	129.00

*Do not aim above horizontal.

CROUSE-HINDS FLOODLIGHTS

**MODEL RCDE & RCDE
INCANDESCENT FLOODLIGHTS**



Explosion-proof incandescent floodlights for Class I, Groups C and D locations. Cast aluminum corrosion-resistant housing (Feraloy available on RCDE-8) and door which threads onto housing and includes heat and impact-resistant lens. Alzak aluminum reflector. Can be rotated 360° horizontally with minimum 135° vertical range.

Cat. No.	Description	List Each
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Model RCDE-6—For 150 Watt, PAR38 or R40 Lamps

44719B	Junction Box Base, four mounting feet	\$104.00
44978A	Junction Box Base, 2" threaded hub	104.00

Model RCDE-6—For 300 Watt, R40 Lamp

44655B	Wheel Base	96.00
44599B	Telescoping Tripod Base	P.O.A.

Model RCDE-10—For 500 Watt, PAR64 Lamp

47282	Junction Box Base, four mounting feet	229.00
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Model RCDE-10 — For 500 Watt, PAR64 Lamp

47283	Wheel Base	220.00
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Model RCDE-8 — For 150 Watt, A23 or 200-300 Watt, PS-30 Lamps

Cat. No.	Reflector	Housing	List Each
41702B	Wide Beam	Feraloy	\$120.00
41704B	Narrow Beam	Feraloy	125.00
41707B	Narrow Beam	Aluminum	125.00
41708B	Wide Beam	Aluminum	120.00
41711B	Nar. Beam	Feraloy w/3 "Z" brkts.	130.00
41712B	Wide Beam	Feraloy w/3 "Z" brkts.	125.00
41715B	Narrow Beam	Alum. w/3 "Z" brkts.	130.00
41716B	Wide Beam	Alum. w/3 "Z" brkts.	125.00
41719B	Narrow Beam	Feraloy, flat base	130.00
41720B	Wide Beam	Feraloy, flat base	125.00
41723B	Narrow Beam	Alum., flat base	130.00
41724B	Wide Beam	Alum., flat base	125.00
41989B	Narrow Beam	Alum., suspen. base	130.00
41990B	Wide Beam	Alum., suspen. base	125.00

MODEL FTL FLUORESCENT FIXTURES



Fluorescent tunnel and underpass lighting fixture. 6' extruded aluminum housing with hinged acrylic plastic cover, gasketed joints. Alzak aluminum reflector. Weatherproof.

Cat. No.	Type Lamp	Lamps per Fixture	Ballasts* in Fixture
47851	HO	1	None
47852	HO	1	One 1-Lamp
47853	HO	1	One 2-Lamp
47854	HO	2	Two 1-Lamp
47855	HO	2	One 2-Lamp
47856		1	None
47857	VHO,	1	One 1-Lamp
47858	SHO,	1	One 2-Lamp
47859	PG	2	Two 1-Lamp
47860		2	One 2-Lamp

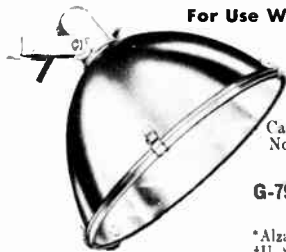
*Ballasts are for 120-volt, 60-cycle operation. Information on other voltages on request. Prices on request.

DISCOUNT: 25%

APPLETON FLOODLIGHTING FIXTURES

INTENSO® MERCFLOOD® FLOODLIGHTS†

For Use With Mercury Vapor Lamps



High intensity floodlighting with minimum servicing. Alzak* aluminum reflector. Reversible front relamping. Weatherproof.

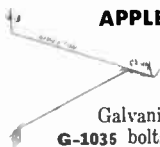
Cat. No.	Lamp Watts	Lamp Type	Beam Spread Horiz. x Vert.	Std. Pkg.	Wt. Ea.	List Price
24" Diameter Etched Reflector						
G-7900	700	BT-46	120° x 127°	1	32	\$126.05
	1000	BT-56			32	

*Alzak is proprietary term of Aluminum Company of America. †U. S. and Can. Pats. pending.

Wide assortment of Indoor and Outdoor Metallic and Mercury Vapor Ballasts available. Information furnished on request.

APPLETON FLOODLIGHTING ACCESSORIES

Wall Mounting Bracket



Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-1035	1	5	\$12.70

Galvanized steel bracket furnished with mounting bolts. Four 5/8" holes.

Pole-Top Adapter for Round-Can Ballast



G-6310

For mounting round-can ballasts, together with an Appleton Day-Arc floodlight, in one single weather-proof assembly. Heavy duty, compact adapter has a built-in stop that permits entry of a 2" to 2 1/2" dia. iron pipe to a depth of 3". For use with DAY-ARC 1000, a G4147 Bracket is required. See DAY-ARC listings.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-6310	1	6	16.40

Ballast Adapter with Plated Steel Crossarm



G-6315

For mounting two flood lights. 24" spacing between mounting holes 2 "CG" watertight cable connectors.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-6315	1	13	37.40

1 1/2" to 2" Pole Top Slip Fitter



GSF20

Malleable iron and cast aluminum. permits full 360° horizontal adjustment. With mounting bolt and 3 square head cup joint clamp screws.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
GSF20	1	1	5.80

Cast Aluminum Multiple Slip Fitter With Blank Cover



G-SF200

Base is secured to 1 1/2" or 2" vertical conduit by 3 steel set screws. For mounting one to four Quartzlites. Four 1/2" conduit openings at right angles around perimeter with set screw.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-SF200	1	225	4.65

Cast Aluminum Adapter for G-SF20Q Slip Fitter



G-SFA200

For additional clusters one above the other receives 1 1/2" extension conduit.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-SFA200	1	50	3.15

Cast Aluminum Single Slip Fitter



G-810

Fits 1 1/2" or 2" pole. Set screws secure to pole. 1/2-inch threaded hub at top receives conduit connection to unit.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-810	1	50	2.10

Malleable Iron Crossarm Mounting Bracket



G-1045

180° horizontal positioning. Permits floodlight to be mounted on Combination Bracket, Cross arm, or other flat surfaces when ballast is remotely mounted. With bolts, lock washers.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-1045	1	2	2.50

Malleable Iron Combination Pipe and Wall Mounting Bracket



G-VB100

For use with No. G-1045. For 1" to 2" pipe. Can use without U bolt to mount directly on flat surface. 2 mounting bolts.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-VB100	1	3	5.25

Cast Aluminum Wall or Base Mounting Bracket



G-BM100

With scale for mounting in horizontal position. Not to exceed 15° from level.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-BM100	10	1/2	2.05

Photocell for Automatic Light Control



G-4148

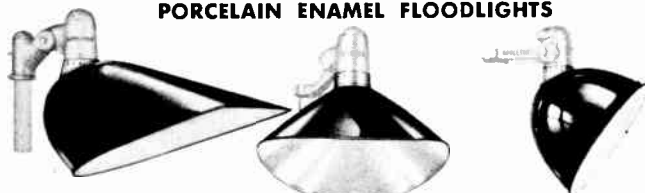
For mounting on ballast housing or flood light swivel cap. Manually-adjustable light-level slide. Furnished with std. 1/2" tee with locknut. Three wire leads color-coded. Photocell should face north and avoid any artificial light.

Cat. No.	Std. Pkg.	Wt. Each	Price Each
G-4148	1	1/2	26.50

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR ONE OR MORE THAN STANDARD PACKAGE

APPLETON FLOODLIGHTING FIXTURES

PORCELAIN ENAMEL FLOODLIGHTS



G-9024 Diffuso

G-4024 Elipso

G-8024 Reflecto (Open)

MERCURY VAPOR

For Use with 400 Watt Mercury Vapor Lamps

Cat. No.	Lamp Watts	Lamp Type	Reflector Diameter	Mounting Style	NEMA Type	Wt. Ea.	Price Each
Diffuso Models							
G-9024	400 MV	H33	26" long	Pole	6	25	\$45.40
G-9034	400 MV	H33	26" long	Bracket	6	25	42.50
G-9044	400 MV	H33	26" long	Crossarm	6	25	45.80
Elipso Models							
G-4024	400 MV	H33	23" x 16"	Pole	6	20	32.30
G-4034	400 MV	H33	23" x 16"	Bracket	6	20	29.40
G-4044	400 MV	H33	23" x 16"	Crossarm	6	20	32.70
Reflecto Models—Open							
G-8024	400 MV	H33	18"	Pole	6	22	30.45
G-8034	400 MV	H33	18"	Bracket	6	22	27.55
G-8044	400 MV	H33	18"	Crossarm	6	22	30.90
Reflecto Models—Enclosed							
G-8124	400 MV	H33	18"	Pole	1	26	57.00
G-8134	400 MV	H33	18"	Bracket	1	26	54.10
G-8144	400 MV	H33	18"	Crossarm	1	26	57.45

*Standard package—1.

INCANDESCENT

Cat. No.	Watts	Type of Lamp	Opening	Ht.	Wt. Ea.	Price Reflector Only
DIFFUSO INCANDESCENT FLOODLIGHTS						
G-95-WCF	300- 500	PS-35 or PS-40	19 1/4 x 15	12 5/8	18	\$24.00
G-90-WCF	750-1500	PS-52	26 x 18	12 5/8	20	29.90
WITH ALZAK* ALUMINUM INNER BEAM PROJECTOR G-494						
G-9094-WCF	750-1500	PS-52	26 x 18	12 5/8	22	34.65
ELIPSO INCANDESCENT FLOODLIGHTS						
G-4522-WCF	300- 500	PS-35 or PS-40	20 x 15	15 1/2	9	15.10
G-4524-WCF	750-1500	PS-52	23 x 16	15 1/2	11	16.80
WITH ALZAK* ALUMINUM INNER BEAM PROJECTOR G-444						
G-452444-WCF	750-1500	PS-52	23 x 16	15 1/2	11	21.10
REFLECTOR INCANDESCENT FLOODLIGHTS						
G-85-WCF	300- 500	PS-35 or PS-40	16	16 3/4	13	12.80
G-80-WCF	750-1500	PS-52	18	16 3/4	14	14.95
WITH ALZAK* ALUMINUM INNER BEAM PROJECTOR G-484						
G-8084-WCF	750-1500	PS-52	18	16 3/4	14	*19.70

*A proprietary term of Aluminum Company of America.

ELIPSO INCANDESCENT STANDLITE



Cat. No.	Watts	Size	Type	Wt.	Price
G-7672	200	†2" Pipe	Direct	13	\$22.10
G-7675	300-500	†2" Pipe	Direct	13	22.10
G-7682	200	†2" Pipe	Angle	13	22.10
G-7685	300-500	†2" Pipe	Angle	13	22.10



†When specified, cast hoods can be furnished for 1 1/2" pipe.

DIRECT STANDLITE



Standlites G7720 and G7750 are supplied with a cast aluminum removable dome cap providing a 3/4 inch threaded male connection and concealed wiring for future installation of floodlights, Quartzlites or group lights.

Cat. No.	Lamp Watts	Price Each	Cat. No.	Lamp Size	Price Each	Dia.	Std. Pkg.	Wt. Each
G-57	200	\$17.18	G-77*	300-500	\$17.20	20	1	7
G-7720	200	26.40	G-7750	300-500	26.40	20	1	9

*May be used with 400 Watt Mercury Vapor.

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR ONE OR MORE THAN STANDARD PACKAGE

APPLETON LIGHTING FIXTURES

6050 SERIES HEAVY-DUTY CAST ALUMINUM FLOODLIGHTS



Appleton Heavy-Duty cast aluminum floodlights utilize either a specular or etched Alzak* aluminum reflector. A cast aluminum cover ring holds a clear or ribbed heat and impact resisting glass lens. Furnished wired with 4 feet of #14-2 conductor.

Cat. No.	Lamp Data		Beam Spread Horiz. x Vert.	Lens	Std. Pkg.	Wt. # Each	Price Each
	Wattage	Type					
14" Polished Reflector—Incandescent							
G-6050	300 or		13.4 x 46	Spread	1	33	\$121.00
G-6051	500 Watt	PS-35,	21.5 x 20	Clear	1	31	121.00
14" Etched Reflector—Mercury							
G-6055	or 400 Watt	PS-40		Spread	1	32	109.55
G-6056	Mercury Lamp	H-33		Clear	1	31	109.55

Also available for 700 and 1000W incandescent lamps and for 1000 Watt Mercury Vapor Lamps.

6070 16" SERIES CAST ALUMINUM FLOODLIGHT

PS-52



This new 16" Heavy-Duty Floodlight is also available for use with 1000-Watt mercury vapor lamps. Information and prices furnished on application.

Cat. No.	Wattage	Dia. Bulb In.	Finish	Beam Horiz. - Vert.		Wt. Ea.	Price
				Horiz.	Vert.		
G-6060	750 To	16	Specular	28°	28.4°	40	\$160.00
G-6065	1500 Watt	PS-16	Specular	42.7°	46.0°	40	160.00
G-6070	Incandescent Lamp	52	E-B	68.4°	69.6°	40	160.00
G-6075	cent Lamp	16	Etched	82.8°	91.8°	40	160.00

6050 AND 6070 SERIES FLOODLIGHTS ACCESSORIES



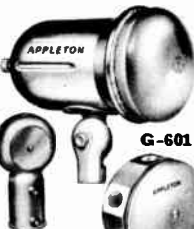
G-1022 2" Slip Fitter. Cast aluminum. Furnished with cord gland and mounting bolts. 1 3 \$9.00



G-1025 Pole Top Adapter. For any 2" Appleton floodlight slip fitter. Cast aluminum. Fits 2 1/2" or 3" poles. 1 3 8.60

GROUP LIGHT LAMP HOLDERS

For Use With Medium Base PAR-38 or R40 Lamps



Add Group Lights as you need them! A cast aluminum bracket permitting vertical and horizontal adjustments assures flexible lighting where you want it! Aluminum reflector lamp housings are Underwriters' Approved, easy to install and are furnished with an asbestos gasket to withstand all types of weather conditions. (Lamp not furnished.)

Cat. No.	Lamp	Watts	Lamp Type	Base	Std. Pkg.	Wt. # 100	Price Each
G-601	150-300	PAR38 or R40	Med	1	160	\$9.00	

G-700 Multiple Junction Boxes with 3 Close-Up Plugs Hold 1 to 5 Medium Base Fixtures.

Cat. No.	Std. Pkg.	Wt. # 100	Price Each	Cat. No.	Std. Pkg.	Wt. # 100	Price Each
G-700	1	260	\$8.40	G-600	1	140	\$6.25

800 SERIES GROUP LIGHT LAMP HOLDERS

For Use With Medium Base PAR38 or R40 Lamps And Mogul Base R40 Lamps



Nos. G-801 and G-831 are furnished complete with 1/2" male thread and locknut.

Cat. No.	Description	Std. Pkg.	Wt. # 100	Price Each
G-831	Mogul base	10	130	7.50

800 SERIES ACCESSORIES



G-800 Cast aluminum multiple junction box with 1/2" close nipple. 6 160 \$2.90



G-816 4" cast aluminum-outlet box cover with 1/2" tapped opening. 10 .65



G-1233 Malleable iron wall flange. 1/2" tapping. 10 80 1.10

APPLETON LIGHTING FIXTURES

PORTABLE PORCELAIN ENAMELED FLOODLIGHTS



Cat. No.	Wattage	Beam Spread	Description	Std. Pkg.	Wt. Ea.	Price Ea.
G-1374	200-300	10	Furnished with 8 feet of Duplex Med Base	1	8	\$ 9.45
G-1394	200-300	10	For 3 1/4" or 4" Octagonal Outlet Box. With two feet of cord.	1	8	9.45
LIGHT DUTY FLOODLIGHTS WITH BRACKET ARM						
G-7322	300-500	16	Clamps on 1 to 2 inch pipe Mogul Base	1	18	32.80
G-7323	750-1000		With Clear Glass Cover. Without Glass Cover.	1	15	24.05

SIGNLYTE ENCLOSED SIGN REFLECTORS

For Close-Up Illumination of Signs



Cat. No.	Description	Std. Pkg.	Wt. Ea.	Price Ea.
G-4810	Alzak* Aluminum inner reflector. Convex clear cover glass.	2	7 1/2	\$20.10

KEYSTONE REFLECTORS

Especially suitable for the illumination of square, rectangular or bulletin signs. Designed with straight line reflector shape, the light cut-off of this reflector is at the edges of the sign.



Cat. No.	Watts	Dimensions		Std. Pkg.	Wt. Each	List Price
		A	B			
G-940	40-60	10	5 1/2	10	3	\$6.15
G-941	100	11 1/2	6 3/8	10	3	6.15
G-945	150	13 5/8	7 1/2	10	3	7.20

STOCKLITES FOR KEYLESS SOCKETS

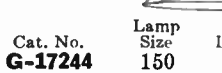
Light is directed to the sides, providing adequate illumination from top to bottom shelves and into bin interiors. Aisle glare is eliminated by the curved V-shaped flanges which also help to build up light intensities where it is needed.



Lamp Size	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
100	G-4289	\$7.55	G-4389	\$7.55	G-4489	\$7.90	G-4589	\$7.55
150	G-4290	7.70	G-4390	7.70	G-4490	8.05	G-4590	7.70
200	G-4291	7.90	G-4391	7.90	G-4491	8.20	G-4591	7.90

YARD LIGHT—"ECONOMY" WIRED

Furnished with 1/2" x 15" plated conduit stem, insulated flange, and 7-inch exposed leads.



Cat. No.	Lamp Size	Dia.	Overall Height	Overall Length	Std. Pkg.	Wt.-Lbs. Per 100	List Price
G-17244	150	14	9	27	1	500	\$6.40

WALK LIGHTS

Has countless applications for modern exterior illumination of residential, commercial, institutional and industrial areas.



Cat. No.	Hub Size	Height In.	Diam. In.	Wt.-Lbs. Per 100	Price Each
G-5150	1/2	9 3/16	8 1/4	450	\$14.35
G-5175	3/4	9 3/16	8 1/4	450	14.35

GYMNASIUM FIXTURES

G-5411 is surface mounting style—mounts onto 4-inch octagonal box.

G-5218 is flush mounting style for use with plastered ceilings.



Cat. No.	Lamp Size	Reflector Diam.	Height	Std. Pkg.	Wt.-Lbs. Std. Pkg.	List Price
G-5411	300-500	18	12 5/8	1	20	\$34.80
G-5218	300-500	18	13 1/2	1	28	34.55

*Alzak is a proprietary term of Aluminum Company of America.
35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR 1 OR MORE THAN STANDARD PACKAGE

35% DISCOUNT FOR LESS THAN STANDARD PACKAGE
40% DISCOUNT FOR 1 OR MORE THAN STANDARD PACKAGE

GENERAL ELECTRIC FLOODLIGHTS

POWERFLOOD® MERCURY FLOODLIGHTS



P-400A

P-400A and P-1000A Powerflood floodlights are designed for applications requiring a heavy-duty floodlight with a uniform, wide beam spread. P-400A is suited for parking lots, building exteriors, construction sites, small sports areas, industrial plants and landscape lighting. P-1000A is ideal for lighting large outdoor recreational, commercial, and industrial areas such as golf courses and driving ranges, football fields,

shopping centers and commercial parking lots, outdoor storage areas, and new- and used-car lots.

Where more light per unit is desirable, and 2000-hour lamp life is acceptable, the P-1000A unit can be provided with a special ballast to operate 1000-watt lamps (clear and phosphor-coated only) at 1500 watts.

Features include die-cast aluminum housing, weather-proof construction with long-life heat-resistant gasketing, faceted aluminum reflector, adjustable lamp socket, tempered heat- and shock-resistant clear cover glass, heavy-gage galvanized-steel trunnion mounting with vertical degree scale and repositioning stop, and prewired terminal board.

Ballast	Catalog No. (Less Lamp)§				Approx. Net Wt. (lb.)	
	Type	Primary Voltage	Without P.E. Receptacle	List Price, Each		With P.E. Receptacle	List Price, Each
P-400A (400 watts—with Diffuse Reflector)						
None*			C521G001	\$ 91.00		25
Regulator	120/240		C521G002	159.67	C521G013	\$165.67
Regulator	480		C521G005	159.67		47
Lag NPF	120		C521G009	139.00	C521G014	145.00
Reactor HPF	240		C521G006	153.00	C521G018	159.00
Reactor NPF	240		C521G007	135.00	C521G012	141.00

P-1000A (1000 watts—with Specular Reflector)						
None*			C522G001	\$143.34		53
Regulator	120/240		C522G002	259.00	C522G015	\$265.00
Regulator	480		C522G003	259.00		81
Reactor HPF	480		C522G004	217.27		78

P-1000A (1500 watts—with Specular Reflector)						
Reactor HPF	480		C522G023	\$226.34		93

P-400A (400 watts—for Lucalox® Lamps)						
	240		C521G501	\$237.00	C521G502	\$240.00

Other ratings available. Contact Graybar.
 § Order P.E. control separately.
 ¶ For use with external ballast.
 © Factory connected for 120-volt operation of ballast. Easily reconnected for 240-volt operation.

PERFORMANCE

Lamp Type	Lamp Designation	Beam Spread (Hor) x (Vert) Deg	Lamp Type	Lamp Designation	Beam Spread (Hor) x (Vert) Deg
400-Watt			1000-Watt		
Color Improved	H400C33-1	138 x 117	Color Improved	H1000C36-15	132 x 110
Clear	H400A33-1	128 x 96	Clear	H1000A36-15	122 x 95

Data shown represents performance for normal factory-set socket position. Slightly narrower (wider for P-1000A with diffuse reflector) beam spread can be obtained after floodlight installation by adjustment to other socket positions.

400- and 1000-watt white mercury lamps may also be used. For 1500-watt operation, initial beam lumens and average maximum candlepower may be obtained by pro-rating 1000-watt photometric data by 1.5.

STEEL BRACKETS & POLES FOR POWERFLOOD MOUNTING

Brackets

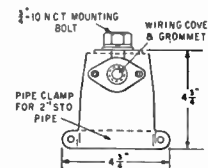
Quantity Floodlights	Spread (in)	Steel Brackets with Slipfitter Mounting		Quantity Floodlights	Spread (in)	Steel Brackets with Slipfitter Mounting	
		Cat. No.	List Price, Each			Cat. No.	List Price, Each
1	...	No bracket required		4	24† 30‡	35-112308-07 35-112308-08	\$34.50 37.50
2	24† 36‡	35-112308-01 35-112308-02	\$15.60 16.30	5	24†	35-112308-09	47.00
3	24† 30‡	35-112308-05 35-112308-06	22.50 25.30	4 at 90°	48† 48‡	35-112308-10 35-112308-10	46.40 46.40
				3 at 120°	41† 41‡	35-112308-11 35-112308-11	42.50 42.50

* Between mounting centers. † For P-400A. ‡ For P-1000A.

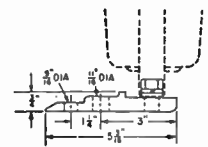
Poles

Mounting Height (Feet)	Steel Hinged Poles with 2-in. Standard Pipe (2 3/8" O.D.) Tenon top					
	P-400A, qty 1, 2, and 3; P-1000A qty 1		P-400A, qty 4, 5, 4 at 90° & 3 at 120°		P-1000A, qty 2, 3 & 3 at 120°	
	Cat. No.	List Price, Each	Cat. No.	List Price, Each	Cat. No.	List Price, Each
25	35-112198-02	\$157.00	35-112198-02	\$157.00		
30	35-112198-03	214.00				
35	35-112198-07	359.80	35-112198-07	359.80	35-112198-07	\$359.80
40	35-112198-08	440.80	35-112198-08	440.80	35-112198-08	440.80

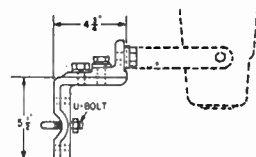
MOUNTING ARRANGEMENTS FOR POWERFLOOD



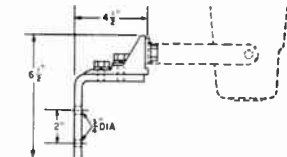
For 2-inch std. pipe (2 3/8" O.D.) mounting.
 Cat. No. 35-110728-28
 List Price, Each \$6.50



Cross-arm adapter with 180-degree scale for vertical trunnion mounting.
 Cat. No. 35-110728-03
 List Price, Each \$2.40



Clamp for mounting on horizontal or vertical 1 1/2" to 2 1/2" std. pipe. (1.9" to 3" O.D.)
 Cat. No. 35-110728-05
 List Price, Each \$7.20



Horizontal aiming adapter for use with pole clamp band.
 Cat. No. 35-110728-35
 List Price, Each \$6.00

FLUOROFLOOD® LUMINAIRE



The Fluoroflood fixture is adaptable to a wide variety of fluorescent applications such as poster panels, building fronts, loading docks and platforms, highway guide and direction signs, minor sports areas, service stations and servicing areas, and entrances. It is simple to install and maintain. Allows angular aiming through 360 degrees. Colored lamps are available in certain types for special architectural lighting effects, and clear plastic cover kits are available as an accessory.

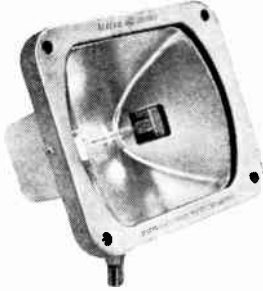
Lamp Type	Nominal Length (Ft.)	Fluoroflood			
		Single Units		Twin Units	
		Cat. No.	List Price, Each§	Cat. No.	List Price, Each§
HO	9			C507G046	\$60.00
	8	C507G041	\$30.67	C507G029	56.67
	6	C507G036	27.34	C507G037	50.00
	4	C507G040	24.00		
T-10J and PG	9			C507G047	60.00
	8	C507G044	30.67	C507G030	56.67
	6	C507G042	27.34	C507G043	50.00
	4	C507G038	24.00		

§Ballast, lamp and conduit not included.

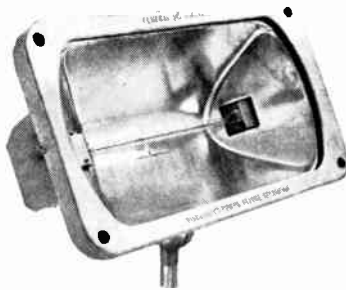
The Above Items Are Subject to 25% Discount

GENERAL ELECTRIC FLOODLIGHTS

QUARTZ-FLOOD* FLOODLIGHTS



QF-500A (500-watt)



QF-1500A (1500-watt)

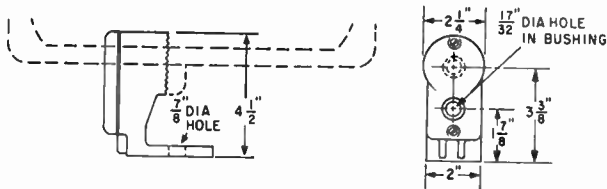
New Types QF-500A and QF-1000A floodlights are designed for applications requiring a wide horizontal and relatively narrow vertical beam spread.

Applications include building facades, signs and poster panels, protective lighting, recreational areas, outdoor residential lighting, stadiums and race tracks, industrial yards, and airport service aprons.

The clean-line design, compact size, and light weight of these new floodlights enhance the appearance of an installation and minimize the wind loading on poles and other mounting arrangements.

Beam Spread		Reflector Finish	Lamp Designation	Cat. No. (Less Lamp)	List Price, Each
Pattern	Hor x Vert Deg x Deg				
QF-500A (500 Watts) with Tempered Door Glass					
Narrow	87 x 11	Specular	Q500T3/CL	C524G004	\$28.67
Medium	90 x 40	Semi-specular	Q500T3/CL	C524G005	28.67
Wide	100 x 93	Diffuse	Q500T3/CL	C524G006	28.67
QF-1500A (1000-1500 Watts) with Tempered Door Glass					
Narrow	120 x 12	Specular	Q1500T3/CL	C525G004	\$36.67
Medium	120 x 27	Semi-specular	Q1500T3/CL	C525G005	36.67
Wide	122 x 100	Diffuse	Q1500T3/CL	C525G006	36.67

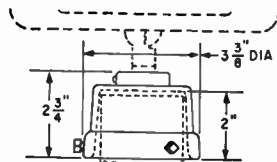
TRUNNION ACCESSORY



Trunnion mount with wiring box and single-cable entrance. Cat. No. 35-964720-5.....List Price, Each \$2.67

MOUNTING ARRANGEMENT

Slip-fitter for mounting on 1 1/2" or 2" standard pipe (1.9" to 2.4" O.D.). Cat. No. 35-110728-19 List Price, Each \$1.93



RIGID STEEL POLES AND BRACKETS FOR THREE QUARTZ-FLOODS

- QF-500A Bracket Cat. No. 35-112308-06 List Price, Each \$26.80
- QF-1500A Bracket Cat. No. 35-112308-06 List Price, Each \$26.80
- 30-Foot Pole (2-Inch Pipe Tenon Top) Cat. No. 35-112197-51 List Price, Each \$198.40

* Trade-mark of General Electric Co.

TYPE L-69A FLOODLIGHT

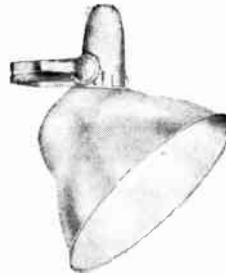


The L69A floodlight is suitable for practically all types of outdoor floodlighting applications. It features an Alzak aluminum reflector, with a faceted rear portion to produce a uniform beam without source-image projection. The socket housing is of die-cast aluminum, complete with an external wiring box to facilitate wiring. The trunnion is of galvanized steel with a vertical degree scale and a handy, built-on wrench which eliminates the need for tools for most aiming operations. Relamping is done from the rear.

Beam Spread		Lamp Designation	Catalog Number (Less Lamp)*	List Price, Each
Pattern	Horizontal } x { Vertical Degrees Degrees			
Filament—1500-watt				
VN	15.8 x 14.4	1500	C508G058	\$69.96
N	25 x 22	1500	C508G053	63.20
M	33 x 31	1500	C508G040	55.96
MW	66 x 60	1500	C508G111	55.96
W	100 x 92	1500	C508G033	48.45

*Indicate if units are to be aimed above horizontal.

TYPE L-55A FLOODLIGHT

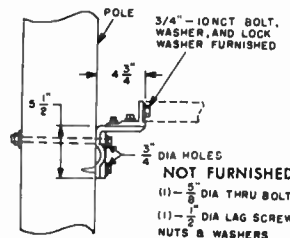


This inexpensive open unit is ideally suited for all types of close-range outdoor lighting applications. A faceted rear reflector eliminates source-image projection. The socket housing is of die-cast aluminum. A strong galvanized-steel trunnion bracket with a vertical degree-marking scale, built-on wrench, and repositioning stop permits easy aiming and mounting of these units.

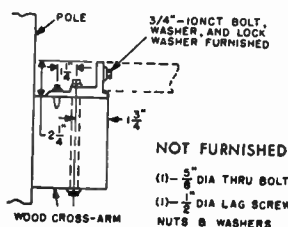
Beam Spread		Lamp Designation	Catalog Number (Less Lamp)	List Price, Each
Pattern	Horizontal } x { Vertical Degrees Degrees			
Filaments—1500-watt				
VV	118 x 112	1500	C501G026	\$21.96
Med.	40 x 40	1500	C501G025	25.96

Also available for 400-watt mercury lamps.

ADAPTERS



Adapter for flat wall or wood-pole mounting. Cat. No. 35-110728-25 List Price, Refer to Graybar

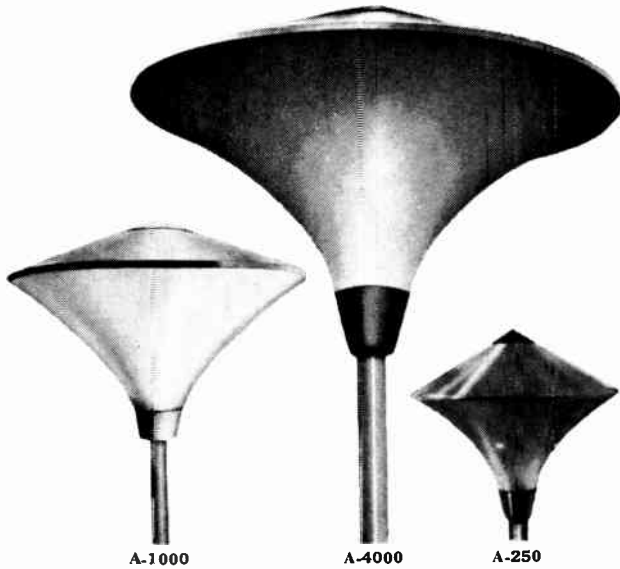


Cross-arm adapter with 180-degree scale for horizontal trunnion mounting. Cat. No. 110728-02 List Price, Each \$2.40

The Above Items Are Subject to 25% Discount

GENERAL ELECTRIC AREA LIGHTING LUMINAIRES

POWERGLOW® LUMINAIRES



General Electric offers a complete line of Powerglow luminaires of the proven Power-Pack design. For vapor-lamp operation from 175 to 4000 watts, the luminaires employ the superb lighting abilities of vapor-source lamps, provide excellent lighting with minimum glare. The smart, family appearance of the Powerglow line makes uniform design possible throughout large or small lighting projects.

A-250 units (175 and 250 watts), *smallest* of the Powerglow line, are ideally suited for walkways, malls, pool decks, and small parking areas, where high-level attraction-getting light is not normally a necessity. They are recommended for mounting heights of 12 to 20 feet.

A-4000 units (4000 watts), *largest* of the line, are designed for high intensity, uniform illumination of shopping centers, parking areas, malls, and other large areas where attraction-getting is a commercial necessity. Recommended mounting heights are from 35 to 40 feet.

A-1000 units (400 and 1000 watts), *newest* of the Powerglow line, are designed for 20-to-30-foot mounting heights and are especially suited for middle-sized, narrow, or irregular shaped parking areas and malls.

Entrance roads, walkways, parks, apartment or housing developments, small parking areas, or other applications calling for units combining high night-time efficiency with stylish day time appearance can be selected from these units.

Watts	Built-in Ballast		IES Light Dist.	Cat. No. (Less Lamp) †	List Price, Each
	Volts	Type			
A-4000 (Four 1000-watt Lamps, H1000C36-15)					
1000	120†	Regulator	V	C709G001	\$1188.00
	208†		V	C709G003	1188.00
	240		V	C709G002	1188.00
	277		V	C709G004	1188.00
	480		V	C709G005	1188.00
1000	480‡	Reactor, HPF	V	C709G006	1044.00

A-1000 (One 1000-watt Lamp, H1000C36-15, or 400-watt H400C33-1)					
400	120	Regulator	V	C725G001	350.00
	208		V	C725G002	350.00
	240		V	C725G003	350.00
	277		V	C725G004	350.00
	480		V	C725G005	350.00
400	120	Lag	V	C725G006	290.33
400	240	Reactor, NPF	V	C725G007	281.80
1000	120	Regulator	V	C725G008	458.33
	208		V	C725G009	458.33
	240		V	C725G010	458.33
	277		V	C725G011	458.33
	480		V	C725G012	458.33
1000	480	Reactor, HPF	V	C725G013	381.55

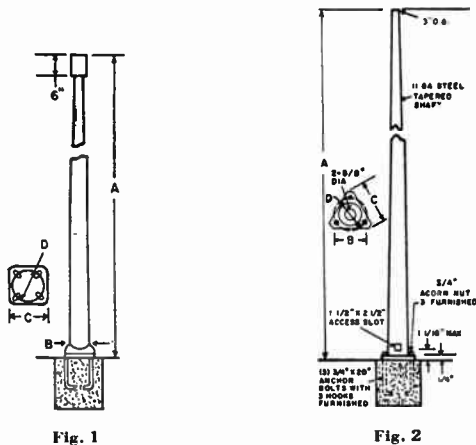
A-250 (One 175-watt Lamp, H175C39-22, or 250-watt H250C37-5) †					
175	120	Regulator	V	C716G002	135.00
	208		V	C716G003	135.00
	480		V	C716G005	135.00
175	240	Reactor, NPF	V	C716G007	96.60
175	120	Lag	V	C716G006	120.00
250	120	Regulator	V	C716G008	148.50
	208		V	C716G009	148.50
	480		V	C716G011	148.50
250	240	Reactor, NPF	V	C716G013	100.50
250	120	Lag	V	C716G012	130.50

A-250—External Mercury Ballast—250 Watts Max.					
			V	C716G014	83.25

A-250—Multiple Circuit, for Filament Lamps—500 Watts Max.					
			V	C716G001	83.25

Effective projected areas (sq. ft.): 12.0 for A-4000, 4.15 for A-1000, 2.4 for A-250.
 † Standard-paint finish. For space blue, coral, aqua, wood beige or twilight gold, order "similar to Cat. No. except in (specify color)." No additional cost for A-4000, A-1000. Additional cost of \$3.34 list, each for A-250.
 ‡ 120/240 volt dual voltage, but connected for voltage shown.
 § 460-volt unit available on special order.
 ¶ Other built-in ballast ratings: Regulator—240V, 277V, and 480V. Reactor—277V NPF, 240V and 277V HPF.
 For information on luminaires using Multi-Vapor* or Lucalox® lamps, consult Graybar.
 * Trade-mark of General Electric Co.

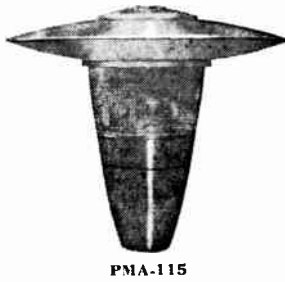
POLES FOR POWERGLOW® LUMINAIRES



Nominal Mounting Height (ft.)	Cat. No.	Dimensions			List Price, Each
		Bottom Diam. (in.)	Base Size (in. sq.)	Bolt Circle Diam. (in.)	
A		B	C	D	
Pole For A-4000 (Fig. 1) Steel, Rigid, Anchor Base, 3 1/2 in. Standard Pipe (4 in. OD) Top Tenon					
35	35-112197-70	8.5	12.0	11.5	\$236.80
Pole For A-1000 (Fig. 1) Steel, Rigid, Anchor Base, 2 in. Standard Pipe (2 3/4 in OD) Top Tenon					
25	35-112197-50	7.0	10.5	10.0	166.60
Pole For A-250 (Fig. 2) Steel, Anchor Base, Plain Top (3-in. OD)					
14	35-112197-02	4.96	11.0	8.0	74.40

The Above Items Are Subject to 25% Discount

GENERAL ELECTRIC POLE-TOP-MOUNTED LUMINAIRES
PM LINE



PMA-115



PMC-116



PMA-117

Entrance roads, walkways, parks, apartment or housing developments, small parking areas, or other applications calling for units combining high night-time efficiency with stylish day time appearance can be selected from these units.

All PM-line luminaires feature a lightweight acrylic refractor, which is resistant to vandalism. The refractor is available in five light distribution patterns. All units have a heavy-duty, die-cast aluminum base with a removable door which gives access to the self-contained ballast (in mercury units) and to the prewired terminal board. The clamp-type slipfitter with leveling screws is designed for three-inch O.D. poles or pole-top adapters.

Ballast*			IES Refractor Type†	PMA-115‡		PMC-116§		PMA-117§	
Watts	Volts	Type		Standard-paint-Finish Luminaire (Less Lamp) Cat. No.‡	List Price, Each	Black Finish Luminaire (Less Lamp) (Cat. No.)	List Price, Each	Standard-paint-Finish Luminaire (Less Lamp) Cat. No.‡	List Price, Each

Mercury Luminaire with Built-in Ballast

175	120/240	Reg	V	C708G016	\$123.00	C708G159	\$142.20	C708G490	\$123.00
175	240	Reac. NPF	V	C708G312	84.60	C708G485	103.80	C708G495	84.60
175	120	Lag	V	C708G026	108.00	C708G169	127.20	C708G501	108.00
250	120/240	Reg	V	C708G046	136.50	C708G144	155.70	C708G492	136.50
250	240	Reac. NPF	V	C708G187	88.50	C708G483	107.70	C708G498	88.50
250	120	Lag	V	C708G056	118.50	C708G154	137.70	C708G504	118.50

Mercury Luminaire—External Ballast—400-watt Maximum

			V	C708G066	71.25	C708G174	90.45	C708G487	71.25
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*Other built-in ballast ratings: Regulator—208V, 277V, and 480V. Reactor—277V NPF, 240V and 277V HPF.

†Distribution for mercury luminaires based on phosphor-coated lamps, for filament luminaires on clear lamps.

‡Other finishes available in following colors at additional cost of \$3.34 list each: space blue, coral, aqua, wood beige, twilight gold.

§Also available with photoelectric control receptacles.

PM luminaires for operating 400-watt mercury vapor lamps are also available.

TC-100 "TOWN AND COUNTRY" LUMINAIRE



This new luminaire gives modern lighting with a traditional flair. At mounting heights of 8-14 feet, it is ideal for residential streets, apartment areas, industrial sites, and motels. It is suitable for use with 75-175 watt phosphor-coated mercury lamps.

The mercury light is controlled by Lexan® prismatic panels, which produce a Type III distribution pattern. The panels resist breakage and are interlocked at their vertical edges to keep dirt out. Dirt does not enter through the top, either, since the canopy is gasketed to the main housing. However, loosening a single captive screw is all that's necessary to lift up the canopy for maintenance. It is securely hinged to the lower housing.

Durable materials make maintenance even easier. The canopy, lower housing and slipfitter are durable die-cast aluminum, coated with black paint. The decorative brass knobs are coated to keep their lustre.

The slipfitter is designed for a three-inch O.D. pole top.

Standard electrical parts are used to give you proved performance inside this elegant new design. Ballasts are General Electric's efficient Bob-Lam design. Standard locking-type control receptacle accommodates the G-E Quick Response photoelectric control. The control is hidden under the formed-aluminum cupola to maintain the traditional appearance.

* Trade-mark of General Electric Co.

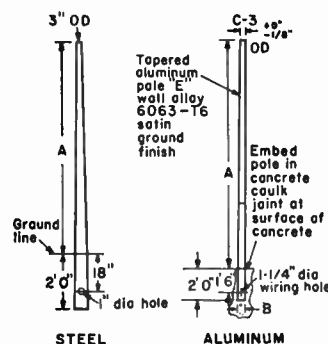
Ballast*			Catalog No. (Less Lamp)				Approx. Net Wt. (lb.)
Watts	Volts	Type	With 120-volt P.E. Receptacle⊙	Net Price, Each	With 240-volt P.E. Receptacle⊙	Net Price, Each	
100	120	Reg	C721G006	\$96.38	.....	.....	28
100	120	Lag	C721G002	85.13	.....	.....	27
100	240	Reac. NPF	C721G001	67.58	C721G004	\$67.58	25
175	120	Reg	C721G007	97.86	.....	.....	31
175	120	Lag	C721G003	86.63	.....	.....	29
175	240	Reac. NPF	C721G008	69.08	C721G005	69.08	26

* Other ballast ratings available on request.

⊙ Photoelectric control not included.

Luminaires with decorative brass rods available at additional cost.

Tapered Poles (Embedded Base, Plain Top)



Mtg Ht (ft)	Top Diam (in.)	Cat. No.	List Price, Each
-------------	----------------	----------	------------------

Steel Poles

10	3	35-112197-41	\$42.20
12	3	35-112197-05	45.80
14	3	35-112197-06	49.60
16	3	35-112197-07	52.80
18	3	35-112197-08	59.60

Aluminum Poles

10	3	35-112197-47	42.30
12	3	35-112197-17	46.00
14	3	35-112197-18	50.70
16	3	35-112197-19	56.00
18	3	35-112197-20	72.70

Pole-Top Adapters for PM and TC-100 Luminaires

For adapting PMA-115, PMC-116, PMA-117, and TC-100 units to concrete poles of various top diameters.

Pole-top Diameter (in.)	A (in.)	Cat. No.	List Price, Each
6-7	7 1/4	35-103426-01	\$10.50
5-6	6 3/4	35-103426-02	10.50
4-5	5 3/4	35-103426-03	10.50

List Prices Are Subject to 25% Discount

GENERAL ELECTRIC AIRPORT LIGHTING

L-819 HIGH INTENSITY RUNWAY LIGHTS

The G-E fixed-focus bi-directional high-intensity runway light consists of a one-piece optical assembly, lamp socket and lampholder assembly, a frangible coupling and a base-plate mounting assembly. The runway light is furnished complete for a 12-inch or 16-inch diameter light base and transformer housing.



Mounting Base Size	12-inch		
	None	Yellow	Green
Color Filters			
G-E Catalog No.	C948G100	C948G101	C948G102
Cat. No. consists of following parts shipped as components:			
12-inch Base Assembly C947G001	1	1	1
Lampholder Assembly C947G003	1	1	1
Clear Lens and Shield Assembly C947G004	1	1	1
Yellow Filter C947G005	—	1	—
Green Filter C947G006	—	—	2
List Price, Each	\$65.30	\$75.60	\$77.00

NOTE: After April 1, 1967 order C948G100A, 101A, 102A for similar units.

L-802 MEDIUM INTENSITY RUNWAY LIGHTS

The General Electric medium-intensity runway light consists of a one-piece asymmetric lens, lamp socket and lampholder assembly, a frangible coupling and a base plate or anchor stake mounting assembly. The clear lens is for runway edge lighting and the green lens for threshold lighting. The units can be mounted on a 12-inch light base and transformer housing or on an anchor stake.



Type of Mounting	12-inch Base		Anchor Stake	
	Asymmetric Clear	Asymmetric Green	Asymmetric Clear	Asymmetric Green
Lens Color (See note)				
G-E Catalog No.	C948G106	C948G107	C948G109	C948G110
Cat. No. consists of following parts shipped as components:				
12-inch Base Assembly C947G007	1	1	..	..
Mounting Fitter C947G008	..	..	1	1
Anchor Stake 35-109259-01	..	..	1	1
Lampholder Assembly C947G009	1	1	1	1
Clear Asymmetric Lens 35-109283-02	1	..	1	..
Green Asymmetric Lens 35-109283-04	..	1	..	1
List Price, Each	\$43.30	\$45.90	\$39.30	\$41.90

NOTE: After April 1, 1967 order C948G106A, 107A, 109A for similar units.

LIGHT BASE AND TRANSFORMER HOUSING

The light base and transformer housing consist of a cylindrical body with top flange, 2-inch cable entrance hubs and a one-piece bottom plate. The bases form the mounting surface for certain types of airport lighting fixtures and hold insulating transformers presently used in airport runway lighting applications.



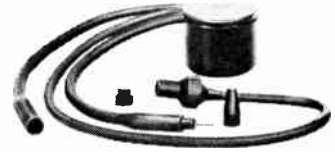
L809, 12-inch base

Vendor Cat. No.	Spec. No.*	(Shipping Wt (Each))		Light Base Size (in.)	List Price, Each
		Lb	Kg		
2120	FAA L-809	40	18.1	12.0	\$40.00
	AF 760 (old) AF 24526-1				
2220	AF 24526-2 (760 A)	47	21.3	12.0	42.00
	AF 24526-3 (760 B)				
2320	AF 24526-4 (760 C)	47	21.3	12.0	42.00
6320	FAA L-837	60	27.2	16.0	56.50
	AF 24526-5				
6301	FAA 1315 LB-1	62	28.1	16.0	60.00

NOTE: Cat. Nos. and prices for other types of bases on request. All bases are normally shipped with plywood covers. Price adder for metal covers on request. *Spec. No. must be furnished on orders in addition to vendor Cat. No. because of slight deviations in spec. requirements.

INSULATING TRANSFORMERS (IL'S)

The G-E direct-burial insulating transformer is a rubber-molded series-type transformer that can be buried directly in the ground or in a light base and transformer housing as used with high- or medium-intensity runway, or taxiway lighting units.



Cat. No.		Advisory Circular No. Specification No.	Rating	List Price, Each
60-cycle	50-cycle			
3303795AB	3303795AB	AC-150/5345-31 L-833	30/45-watt, 6.6/6.6-amp	\$25.80
C906G003	C906G003	AC-150/5345-31 L-834 Type I	100-watt, 6.6/6.6 amp	39.00
3303782AB	C906G304	AC-150/5345-22 L-834 Type II	200-watt, 6.6/6.6-amp	39.00
C906G302	C906G305	AC-150/5345-33 L-844	200-watt, 20/6.6-amp	43.00
C906G303	C906G306	AC-150/5345-34 L-839	300-watt, 6.6/20-amp	45.00
3372071	C906G300	FAA-1055C Type I	300-watt, 20/20-amp	46.50
C906G310	C906G310	FAA-1055C Type II	300-watt, 6.6/6.6-amp	46.50

NOTE: Cat. No. and prices for other ratings on request.

L-811, L-812, L-813 STATIC TYPE CONSTANT-CURRENT REGULATORS

The General Electric static type constant-current regulators consist of a transformer-reactor assembly and resonant-circuit capacitors. This network converts constant-potential power to a constant-current output.



Specification
The static type constant-current regulators are constructed in accordance with the requirements of the following FAA Advisory Circulars:

Rating	Advisory Circular No. or L-Spec	Title-specification for:
4 kw	AC 150/5345-18 (L-811)	Static Indoor Type Constant Current Regulator with Brightness Control and Runway Selection for Direct Operation
4 kw } 7 1/2 kw }	AC 150/5345-11 (L-812)	Static Indoor Type Constant Current Regulator with Brightness Control for Remote Operation
4 kw } 7 1/2 kw }	AC 150/5345-21 (L-813)	Static Indoor Type Constant Current Regulator for Remote Operation of Taxiway Lights

Catalog Number		Spec No.	KW Rating	List Price, Each	
60-cycle	50-cycle			60-cycle	50-cycle
C901G100	C901G106	L-811	4	\$1111.00	\$1235.00
C901G101	C901G107	L-812	4	1217.00	1350.00
C901G102	C901G108	L-812	7 1/2	1925.00	2140.00
C901G103	C901G109	L-813	4	938.00	1040.00
C901G104	C901G110	L-813	7 1/2	1522.00	1692.00

L-828 CONSTANT-CURRENT REGULATORS

General Electric airport regulators for series lighting systems employ an oil-filled floating-coil transformer and an a-c solid state control to produce adjustable constant-current power for any desired lamp brightness (0.1 to 100 percent rated light output).

Rating Kw*	Output (Secondary) Amp—Max./Min.	Catalog Number	List Price, Each
20	6.6/2.8	↑	.....
20	6.6/2.8	C901G420	\$6000.00
20	20.0/8.5	↑	.....
30	6.6/2.8	C901G440	7000.00
30	20.0/8.5	C901G441	7000.00
50	20.0/8.5	↑	.....

*Max kw based on 1.0 PF load at max output current. Constant-current output adjustable to any point within Max/Min range with same connected load.

†For standard ratings not listed by Cat. No. contact Graybar.
NOTE: Optional forms and modifications are available on request.



The Above Items Are Subject to 25% Discount

GENERAL ELECTRIC FILTERGLOW™ SEALED INDUSTRIAL LUMINAIRES

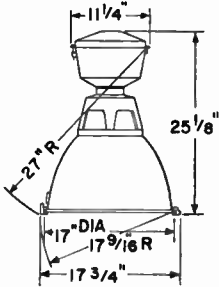


The Filterglow industrial luminaire's unique design and construction features combine to provide the lowest total cost of light—first cost, installation cost, operating cost, and maintenance cost—consistent with the lighting job to be done. And they take into full consideration the people who are going to work under that lighting—their visual comfort, and the immediate and long-term effects of the lighting on their efficiency. Filterglow luminaires also offer a broad range of units to choose from, and simplified installation and maintenance.

Among its many new features are:

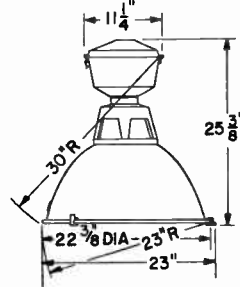
1. Activated charcoal filter keeps inside elements clean for longer high-level illumination.
2. ALGLAS™ reflector resists dirt and stains, stays brighter longer.
3. Up-light windows reduce background contrast to increase visual comfort.
4. Detachable cover, mounted directly to conduit, supports unit during conduit wiring.
5. Special cast-aluminum compartment isolates sensitive electronic components required for Lucalox ballast to keep them cool.

SINGLE UNITS FOR 400-WATT MERCURY LAMPS
(Color-improved or Deluxe White)



1.3 S/M Ratio*
Photometric Data: 35-174545

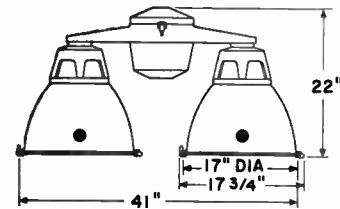
Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G101	33	\$99.00
208v	C731G103	33	99.00
240v	C731G102	33	99.00
277v	C731G104	33	99.00
480v	C731G105	33	99.00
none	C731G001	16	§



0.7 S/M Ratio*
Photometric Data: 35-174546

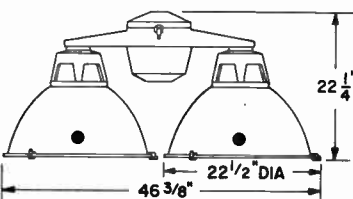
Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G111	37	\$106.00
208v	C731G113	37	106.00
240v	C731G112	37	106.00
277v	C731G114	37	106.00
480v	C731G115	37	106.00
none	C731G003	20	§

TWIN UNITS FOR 400-WATT MERCURY LAMPS
(Color-improved or Deluxe White)



1.3 S/M Ratio*
Photometric Data: 35-174561

Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C732G101	59	\$184.00
208v	C732G103	59	184.00
240v	C732G102	59	184.00
277v	C732G104	59	184.00
480v	C732G105	59	184.00
none	C732G001	32	§

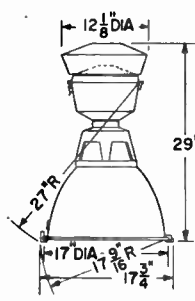


0.7 S/M Ratio*
Photometric Data: 35-174562

Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C732G111	67	\$198.00
208v	C732G113	67	198.00
240v	C732G112	67	198.00
277v	C732G114	67	198.00
480v	C732G115	67	198.00
none	C732G003	40	§

SINGLE UNITS FOR 400-WATT LUCALOX™ LAMPS

1.5 S/M Ratio* ; Photometric Data: 35-174553

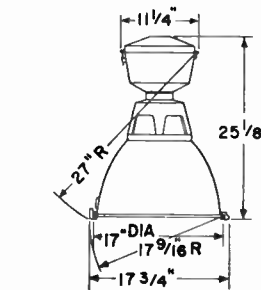


Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C761G115	46	\$215.00
208v	C761G109	37	215.00
240v	C761G101	37	215.00
277v	C761G102	42	215.00
480v	C761G116	46	215.00
none	C761G001	16	§

0.9 S/M Ratio* ; Photometric Data: 35-174554

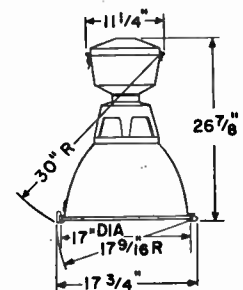
Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C761G119	46	\$215.00
208v	C761G111	37	215.00
240v	C761G105	37	215.00
277v	C761G106	42	215.00
480v	C731G120	46	215.00
none	C761G003	16	§

SINGLE UNITS FOR 400-WATT MULTI-VAPOR™ LAMPS



1.5 S/M Ratio*
Photometric Data: 35-174549

Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G121	33	\$116.00
208v	C731G147	33	116.00
240v	C731G122	33	116.00
277v	C731G151	33	116.00
480v	C731G143	33	116.00
none	C731G009	16	§

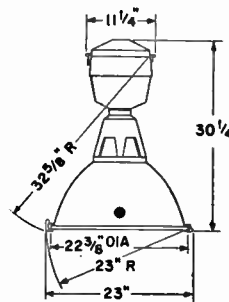


1.0 S/M Ratio*
Photometric Data: 35-174550

Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G125	34	\$123.00
208v	C731G149	34	123.00
240v	C731G126	34	123.00
277v	C731G153	34	123.00
480v	C731G145	34	123.00
none	C731G005	17	§

SINGLE UNITS FOR 1000-WATT LAMPS
Mercury (Color-improved or Deluxe White)
Use H36-15 type lamps only

1.0 S/M Ratio* ; Photometric Data: 35-174557



Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G155	51	\$153.00
208v	C731G130	51	153.00
240v	C731G129	51	153.00
277v	C731G131	51	153.00
480v	C731G132	51	153.00
none	C731G011	24	§

1.1 S/M Ratio* ; Photometric Data: 35-174559

Ballast	Cat. No.	Net Wt. (lb)	List Price, Each
120v	C731G157	51	\$177.00
208v	C731G159	51	177.00
240v	C731G158	51	177.00
277v	C731G160	51	177.00
480v	C731G137	41	177.00
none	C731G007	24	§

ACCESSORIES

	Without Safety Screw		With Safety Screw	
	Cat. No.	List Price, Each	Cat. No.	List Price, Each
Fixture hook				
For mercury or Multi-Vapor units	35-200659-01	\$0.60	35-961870-08	\$0.90
For Lucalox units	35-961870-05	1.65	35-961870-09	2.00
Fixture loop				
For mercury or Multi-Vapor units	35-200659-03		\$0.60	
Hanger loop				
3/4" female thread and set screws	35-200650-02		\$0.60	

For other accessories or for modifications, refer to Graybar.

NOTES:

1. Standard units rated for 40C ambient temperature on all single models, 55C on twin models.
 2. All units have a threaded hole for mounting to 3/4" conduit or accessories. Standard cat. nos. include two lock nuts and plastic bushing for 3/4" conduit, grounding lead, and three wire nuts for #14-16 AWG conductors. For other types of mounting, refer to Graybar.
- * S/M Ratio is the maximum ratio of spacing to mounting height above the work plane.
§ Available on application. Refer to Graybar.

The Above Items Are Subject to 25% Discount

HOLOPHANE OUTDOOR LIGHTING UNITS

WIDE-SPRED® POSTOP® UNITS



No. 06343 Postop



With Guard

POSTOP (150-200 W. lamp) spreads illumination over a wide area with good uniformity. Mounted usually 8' to 10' above the ground and spaced 25' to 35' apart depending on the mounting height.

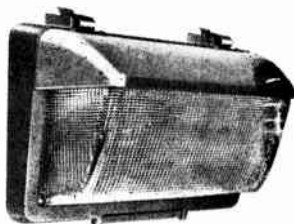
POSTOP is available with fitters to slip over 1" pipe or 3" post or with threaded fitter for 1" pipe.

Cat. No.	Lamp Wattage	—Dimens., In.—		Fitter	Each
		Diam.	Depth		
06341	100†	13 7/8	11 1/8	3" Slip	\$20.16
06343	200	13 7/8	11 1/8	3" Slip	20.16
06344	150-200	13 7/8	12	1" Slip	21.89
06344-V	150-200	10 7/8	12	1" Thrd.	21.66
06345*	150-200	10 7/8	12	1" Thrd.	24.66
06346	100†	13 7/8	12	1" Slip	21.89
06346-V	100†	10 7/8	12	1" Thrd.	21.66
06349*	100†	10 7/8	12	1" Thrd.	24.66

*These units have integral cast guards. †Mercury.

HOLOPHANE OUTDOOR LIGHTING UNITS

WALLPACK® WIDE-SPRED UNITS



Heavy duty ENDURAL* prismatic refractor in rugged weather-proof cast housing with non-corrosive metal parts. Provides uniform illumination over wide areas adjacent to walls. Models for outdoor use have metal visor; indoor

units are without visor to allow uplight. Accommodates both incandescent and mercury vapor lamps. Outdoor 175-250W. mercury types available with integral ballast, photocell control and PRISMASCOPE®, off and on control.

Cat. No.	Lamp Wattage	— Dimens., In. —			Use	Each
		L.	W.	D.		
480	300 Incand.	16 1/4	10 1/8	7 1/2	Out	\$51.35
481	175 M.V.	16 1/4	10 1/8	7 1/2	Out	51.35
482†	300 Incand.	16 1/4	10 1/8	7 1/2	Out	73.11
485*	300 Incand.	16 1/4	10 1/8	7 1/2	In	51.35
486*	175 M.V.	16 1/4	10 1/8	7 1/2	In	51.35
487†*	175-250 M.V.	16 1/4	10 1/8	7 1/2	Out	73.11
Pole Mount 3 1/4"-4" Slip Fit						
490	300 Incand.	16 1/4	12 1/8	12 1/2	Out	77.04
491	175-250 M.V.	16 1/4	12 1/8	12 1/2	Out	77.04
492†	300 Incand.	16 1/4	12 1/8	12 1/2	Out	94.71
497†	175-250 M.V.	16 1/4	12 1/8	12 1/2	Out	94.71

Mercury Vapor Units With In-Built Ballast†

—175 Watt—		—250 Watt—		— Dimens., In. —			Use
Cat. No.	Each	Cat. No.	Each	L.	W.	D.	
483*	\$86.34	583*	\$91.01	16 1/4	16 1/8	7 1/2	In
488	86.34	588	91.01	16 1/4	16 1/8	7 1/2	Out
489†	104.01	589†	108.69	16 1/4	16 1/8	7 1/2	Out
Pole Mount 3 1/4"-4" Slip Fit							
498	92.00	598	96.67	16 1/4	12 1/8	12 1/2	Out
499†	109.67	599†	114.35	16 1/4	12 1/8	12 1/2	Out

†Photocell Control and PrismaScope.
 ‡Standard primary voltage is 120. For other voltages, specify 208, 240, 277, or 480 as suffix to catalog number; i.e., 480-208. Integrally ballasted units with Photocell Control in 120 and 240 volt primaries only.
 *For indoor use.

REFRACTOPACK® WIDE-SPRED® UNITS



REFRACTOPACK® units offer the choice of an integrally ballasted constant wattage luminaire for 400 watt mercury vapor lamp, or an unballasted unit for 500 watt incandescent lamp and/or 400 watt mercury vapor with remote ballast.

Refractor is one-piece prismatic light controlling element, molded of ENDURAL® — thermal, shock-resistant glass. Stainless steel spring hinge and positive pressure latch firmly hold refractor assembly against gasketed weather tight hood.

Three distinct prismatically controlled light patterns available, either asymmetric, square, or long and narrow distribution, to assure a wide range of outdoor lighting solutions. Uniform coverage of corners and edges of area accomplished by square distribution.

Basic size is 17 3/8" greatest diameter (at top), 15 1/2" depth (add 2 1/4" to depth for photocell receptacle). Slip fit accommodates 1 1/4" pipe. Top entry has 1 1/4" tapered pipe thread.

Cat. No.	Distribution	Entry	Photo-cell	Each
500 Watt Incandescent or 400 Watt Mercury				
442	Asymmetric	Side	Yes	\$58.28
443	Asymmetric	Top	Yes	60.59
444	Asymmetric	Side	No	47.24
445	Asymmetric	Top	No	49.73
446	Square	Side	Yes	58.28
447	Square	Top	Yes	60.59
448	Square	Side	No	47.24
449	Square	Top	No	49.73
450	Long & Narrow	Side	Yes	58.28
451	Long & Narrow	Top	Yes	60.59
452	Long & Narrow	Side	No	47.24
453	Long & Narrow	Top	No	49.73

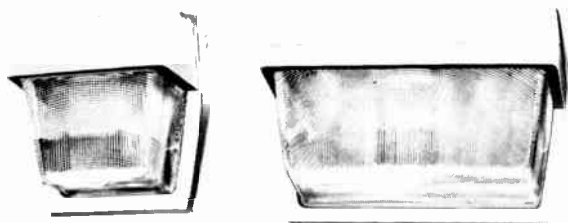
400 Watt Mercury With Integral Ballast*

454	Asymmetric	Side	No	95.29
455	Square	Side	No	95.29
456	Asymmetric	Side	Yes	106.72
457	Square	Side	Yes	106.72
458	Asymmetric	Top	No	103.78
459	Square	Top	No	103.78
472	Long & Narrow	Side	No	95.29
473	Long & Narrow	Side	Yes	106.72
477	Long & Narrow	Top	No	103.78

*Specify primary voltage: 120, 208, 240, 277 or 480 volt as part of catalog number; i.e., 454-120 or 454-240.

HOLOPHANE OUTDOOR LIGHTING UNITS

WALLPACKETTE® WIDE-SPRED UNITS



No. 400

No. 410

WALLPACKETTE® series offers a selection of wall mounted, asymmetric fan-shaped distribution luminaires to accommodate 150-200 watt incandescent and 100 watt mercury and 250 watt quartz-iodine lamps. Designed to blend with modern, as well as traditional architecture. Added feature — baked enamel or metallic finishes on special order — state color: black, bronze, blue, green, etc.

On-and-off automatic PRISMASCOPE® control on Nos. 408, 410, 412 and 414; diode illumination control on Nos. 400, 408 and 414. Excellent lighting and mechanical performance; simple mechanical and electrical installation.

Cat. No.	Lamp Wattage	Dimens., In.			Each
		L.	H.	D.	
Incandescent Lamps					
400	150	8 1/8	8 1/8	6 7/8	\$20.56
408	200	14 1/4	10 1/8	6 7/8	25.99
Mercury Lamps					
410-120*	100 Med.	14 1/4	10 1/8	6 7/8	51.98
412-120*	100 Mog.	14 1/4	10 1/8	6 7/8	51.98
Quartz-Iodine Lamp					
414	250 Single End	14 1/4	10 1/8	6 7/8	31.02

*Other primary voltages available. Specify 208, 240, 277 or 480 volts as part of catalog number; i.e., 410-277.

WALLPACKETTE ACCESSORIES

Cat. No.	Description	Each
PR	Prismascope Photoelectric Control for Nos. 408, 410, 412, 414.....	\$18.77
CG	Protective Cast Guard for use with all units	10.86
DI	Diode Illumination Level Control for use with Nos. 400, 408, 414.....	3.18
TP	Tamper Proofing Precaution for use with all units.....	-----
CR	Special-Application Corrosion Protection for use with all units.....	6.93
NL	Night Light (7 watt 7C7/W lamp) for use with all units.....	4.04

SQUARE-POSTOP® UNITS



SQUARE-POSTOP® outdoor units with square light patterns are available in two series. Attractive, square, well-proportioned styling reflects modern trend toward simple lines. Heavy duty, cast aluminum fixture body supports single-piece square prismatic refractor of ENDURAL® thermal shock resisting glass. Die-formed top cover, anchored to cast collar completes the luminaire. Designed to fit a wide range of standard poles.

Socket, ballast and PRISMASCOPE® — on and off control (when included in the catalog number) are factory connected; only two wires need to be spliced to line wires. Choice of lamp types and wattages is indicated in the table below.

460 Series
32" Square Hood — Max. Unit Depth 33 3/8"

Cat. No.	Lamp Wattage	Slip Fit Pole O.D.		Each
		Min.	Max.	
460-120†	400 Mercury	3 3/8"	4"	\$129.13
461-120†*	400 Mercury	3 3/8"	4"	146.80
462	400 Mercury, 500 Incand.	3 3/8"	4"	95.12
463*	400 Mercury, 500 Incand.	3 3/8"	4"	112.79
465-120†	400 Mercury	3 3/4"	4 1/8"	129.13
466-120†*	400 Mercury	3 3/4"	4 1/8"	146.80
467	400 Mercury, 500 Incand.	3 3/4"	4 1/8"	95.12
468*	400 Mercury, 500 Incand.	3 3/4"	4 1/8"	112.79

360 Series
24" Square Hood — Overall Unit Depth 24 1/4"

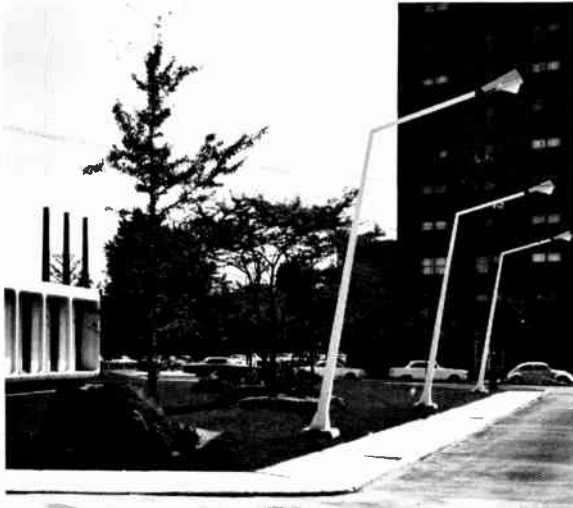
Cat. No.	Lamp Wattage	Slip Fit Pole O.D.		Each
		Min.	Max.	
360-120†	250 Mercury	2 7/8"	3 1/8"	\$110.07
361-120†*	250 Mercury	2 7/8"	3 1/8"	127.74
362	175, 250 Merc., 300 Incand.	2 7/8"	3 1/8"	70.63
363*	175, 250 Merc., 300 Incand.	2 7/8"	3 1/8"	88.31
364-120†	175 Mercury	2 7/8"	3 1/8"	104.71
365-120†*	175 Mercury	2 7/8"	3 1/8"	122.38

†Unit has In-Bilt ballast. *Unit has PRISMASCOPE control; 120 volts only.
NOTE: Standard is 120 volts for ballasted units. Specify 208, 277 or 480 volts, if required, as suffix to catalog number; i.e., 460-208.

REVERSE LIGHTING EQUIPMENT

CONCEPT SERIES

Appearance-Matched Mercury Luminaires, Poles and Brackets in Eight Colors



Concept Series is the only appearance-matched family in outdoor lighting. The 100-watt mercury (200-watt incandescent) unit is ideal for low level use in gardens or along malls and walkways. Three large units are designed for parking areas and building perimeters.

Luminaires may be mounted on canted davit poles, straight poles or matching wall brackets.

Housing and decorative front grills on all fixtures are constructed of aluminum. Diffusers of the three larger luminaires are fabricated of heat and ultra-violet resistant translucent plastic. The 100-watt model has a diffuser of impact and heat-resistant glass.

Available with or without built-in ballast.

Cat. No. (1) (3)	Watts	Ballast(2)		Each
		Voltage	Type	
Davit Mounting				
5-5460M	1000	480	RH	\$187.00
5-5540M	1000	240	CWA	206.00
5-4440M	400	240	RH	138.00
5-4540M	400	240	CWA	148.00
5-3440M	250	240	RH	104.00
5-3540M	250	240	CWA	114.00
Pole Top Mounting				
5-3441M	250	240	RH	104.00
5-3541M	250	240	CWA	114.00
Wall Mounting				
5-3443M	250	240	RH	104.00
5-3543M	250	240	CWA	114.00
Wall Bracket				
5-1113M	100	120	HRN	34.00
5-1003M	100	.....	Remote	16.00

NOTE: 400 and 1000 watt fixtures can be mounted direct on Revere canted davit poles and wall bracket. Adaptor available for straight pole mounting. The 100, 175 and 250 watt fixtures are supplied with mounting adaptor.

(1) Catalog numbers are for Silvermist aluminum finish. Seven additional colors available at no extra charge. Lamps and poles are not included.

(2) Additional ballasts available including 175 watt units. Ballast type abbreviations: CWA—Constant Wattage Autotransformer—High Power Factor; HRN—High Reactance—Normal Power Factor; RH—Reactor—High Power Factor.

(3) Catalog numbers are for Concept-5 design with pyramidal diffusers. Other designs available.

SERIES 403 CANTED DAVIT STEEL POLES

Series 403 Canted Davit poles as shown in the photo at left provide aesthetic, coordinated mounting for Concept Series luminaires or street lights. Fabricated from preformed tapered steel channels, all poles are available with anchor base mounting and are shipped with four anchor bolts and nuts. Poles are furnished inside and outside with red oxide primer. Brushing enamel in the eight Concept colors is available. Hand holes are provided.

Cat. No.	Nom. Mtg. Ht., Ft.	Duty Class	Lgth. Arm, Ft.	Each
403-M1042	10	Medium	4	\$ 76.00
403-M1442	14	Medium	4	89.00
403-M1842	18	Medium	4	101.00
403-M2042	20	Medium	4	128.00
403-M2462	25	Medium	6	139.00
403-H3062	30	Heavy	6	152.00
403-H3082	30	Heavy	8	195.00
403-H3582	35	Heavy	8	224.00
403-H3982	40	Heavy	8	249.00

NOTE: Other mounting heights, arm lengths and strengths available. Specify fixture to be mounted so that proper assembly can be supplied.

MODIFICATIONS FOR SERIES 403 POLES

Cat. No.	Description	Each
66-61	Base Cover	\$ 4.00
66-10	Double Festoon Outlet	14.00
66-11	Grounding Lug	1.50

QUAD-OVAL LUMINAIRES — SERIES 5450



These low cost 4-in-1 mercury area lighting systems are available in 400 and 1000-watt sizes. The 1000-watt units use four Series 2700 Super-oval luminaires with or without integral ballasts. 400-watt fixtures utilize four Series 2600 Endoval luminaires and may also be obtained with or without integral ballasts. Pole top adaptors with all Quad-Oval fixtures slip 3"

Cat. No.	Watts	Ballast(1)		Each
		Voltage	Type	
5454-452	400	120	CWA	\$388.00
5454-459	400	208	CWA	388.00
5454-451	400	240	CWA	388.00
5454-457	400	480	CWA	388.00
5454-400	400	.....	Remote	200.00
5454-1052	1000	120	CWA	645.00
5454-1059	1000	208	CWA	645.00
5454-1051	1000	240	CWA	645.00
5454-1057	1000	480	CWA	645.00
5454-1000	1000	.....	Remote	292.00

NOTE: Standard color is aluminum. Other colors available on application.

(1) Luminaires for remote ballasts do not include ballasts. Ballast type abbreviation: CWA—Constant Wattage Autotransformer—High Power Factor.

REVERE LIGHTING EQUIPMENT

ULTRA-LITE MERCURY LUMINAIRES



No. 5442

Provides modern, efficient illumination for shopping center plazas, parking areas, parks, drive-ins, school and city playgrounds. Reduces pole requirements, facilitates maintenance.

Lamps are positioned for optimum uniformity and intensity at grade level. Light patterns overlap to increase fringe intensities, provide uniformly high light levels.

Prismatic pressed crystal glassware, in combination with specially designed parabolic reflectors, provides low luminaire brightness, reducing glare. No light-absorbing prisms are used.

1600-Watt Standard Ultra-Lite No. 5440

For four 400-watt mercury lamps. The 52" dia. steel dome is finished in porcelain enamel. Slipfitter for 3 1/2" pipe (4" O.D.). Standard color is green. Other colors available.

Ballast and lamps not included.

No. 5440 Luminaireeach **\$278.00**

1600-Watt 15°-Tilt Ultra-Lite No. 5442

For four 400-watt mercury lamps. The 72" dia. spun aluminum dome is available in natural aluminum color only. Reflectors and glassware are tilted 15° for uniform, overlapping light patterns. Slipfitter for 3 1/2" pipe (4" O.D.).

Ballast and lamps not included.

No. 5442 Luminaireeach **\$360.00**

4000-Watt 15°-Tilt Ultra-Lite No. 601-A1013

For four 1000-watt mercury lamps. Standard unit features 62" dia. aluminum dome in natural aluminum finish and slipfitters for 3" pipe (3 1/2" O.D.). Optical system tilted 15°. Steel dome with enamel finish available on application.

Ballast and lamps not included.

No. 601-A1013 Luminaire.....each **\$445.00**

FIXED-POSITION FLOODLIGHT



Ideal underneath lighting for signs, buildings, etc. Consists of a polished aluminum reflector and special 180° prismatic control lens, held in proper relationship with the lamp, giving a maximum to minimum ratio of 3 to 1.

Mounting plates furnished for attaching to walls or other flat surfaces. Medium screw base socket. Use with PS-30, 200-300 watt or 3" to 6" L.C.L. lamps.

No. 651-W1000 Floodlighteach **\$48.00**

SERIES 1100 MERCURY FLOODLIGHTS



Front View

Side View

This revolutionary new floodlight puts more light where you need it. It produces a wide horizontal beam with an exceptionally sharp vertical cutoff. These ruggedly constructed luminaires may be purchased separately, with modular ballasts, or with ballasts for remote mounting. The ballast assemblies are suitable for many other mercury floodlights.

Both 400 and 1000-watt Series 1100 Floodlights feature built-in protractors, sighting planes, and hinged lens covers. A wide variety of brackets and poles permit limitless mounting variations.

Cat. No. (1)	Watts	Ballast (2)		Each
		Voltage	Type	
Luminaires With Ballast Assemblies				
1103-412	400	120	HRN	\$116.50
1103-419	400	208	HRN	116.50
1103-451	400	240	CWA	140.50
1103-458	400	277	CWA	140.50
1103-457	400	480	CWA	140.50
1103-400	.....	.....	Remote	81.50
1103-1051	1000	240	CWA	193.80
1103-1058	1000	277	CWA	193.80
1103-1057	1000	480	CWA	193.80
1103-1000	.....	.....	Remote	96.90
Ballast Assemblies Only				
1102-412	400	120	HRN	35.00
1102-419	400	208	HRN	35.00
1102-451	400	240	CWA	59.00
1102-458	400	277	CWA	59.00
1102-457	400	480	CWA	59.00
1102-1051	1000	240	CWA	96.90
1102-1058	1000	277	CWA	96.90
1102-1057	1000	480	CWA	96.90

(1) Photocontrol Receptacle prewired available. Add suffix "P" to catalog number.

(2) Ballast type abbreviations: CWA—Constant Wattage Auto-transformer—High Power Factor; HRN—High Reactance—Normal Power Factor.

SERIES 1100 ACCESSORIES

Cat. No.	Description	Each
701-V52	Photocontrol — Rated to 500w; 105-135v	\$12.60
701-V100	Photocontrol — Rated to 1000w; 105-285v	16.40
1105	90° — 2" Elbow Bracket for Horizontal Luminaire Mounting	4.40
1106	Crossarm Fitter	2.50

REVERE LIGHTING EQUIPMENT

POST TOP LUMINAIRES — SERIES 2830



Available for use with 175, 250, or 400-watt mercury lamps or 1000-6000 lumens multiple incandescent street lighting lamps.

Integral ballasts, available with the three smaller units, are prewired to terminal boards. Domes and housings are constructed of spun aluminum and are securely latched to prismatic glass refractors.

The luminaires slip 3" O.D. pipe. 2" fitters available on specification.

Ballast (1) Voltage	Type	I.E.S. Type Optical System			
		Type II		Type II-A (4-Way)	
		Cat. No. (2)	Each	Cat. No. (2)	Each
175 Watt (For H-39 Lamp)					
120	HRN	2871-221	\$71.50	2871-231	\$71.50
208	CWA	2873-225	81.50	2873-235	81.50
240	RN	2874-223	56.50	2874-233	56.50
240	CWA	2874-225	81.50	2874-235	81.50
277	RH	2875-224	60.00	2875-234	60.00
277	CWA	2875-225	81.50	2875-235	81.50
480	CWA	2876-225	81.50	2876-235	81.50
.....	Remote	2860-220	50.00	2860-230	50.00
250 Watt (For H-37 Lamp)					
Type II					
120	HRN	2881-221	79.50	2881-231	79.50
208	CWA	2883-225	91.00	2883-235	91.00
240	RN	2884-223	59.00	2884-233	59.00
240	CWA	2884-225	91.00	2884-235	91.00
277	RH	2885-224	63.50	2885-234	63.50
277	CWA	2885-225	91.00	2885-235	91.00
480	HRN	2886-221	83.50	2886-231	83.50
.....	Remote	2860-220	50.00	2860-230	50.00
Type III					
120	HRN	2881-241	79.50	2881-261	79.50
208	CWA	2883-245	91.00	2883-265	91.00
240	RN	2884-243	59.00	2884-263	59.00
240	CWA	2884-245	91.00	2884-265	91.00
277	RH	2885-244	63.50	2885-264	63.50
277	CWA	2885-245	91.00	2885-265	91.00
480	HRN	2886-241	83.50	2886-261	83.50
.....	Remote	2860-240	50.00	2860-260	50.00
400 Watt (For H-33 Lamp)					
Type II					
.....	Remote	2830-220	50.00	2830-230	50.00
Type III					
.....	Remote	2830-240	50.00	2830-260	50.00
For Incandescent Lamps					
I.E.S. Type Optical System					
Type II					
Watts	Base	Cat. No. (2)	Each	Cat. No. (2)	Each
150	Medium	2840-220	\$50.00	2840-230	\$50.00
300-					
500	Mogul	2830-220	50.00	2830-230	50.00
Type III					
150	Medium	2840-240	50.00	2840-260	50.00
300-					
500	Mogul	2830-240	50.00	2830-260	50.00

I.E.S. Type Optical System					
Type II					
Watts	Base	Cat. No. (2)	Each	Cat. No. (2)	Each
150	Medium	2840-220	\$50.00	2840-230	\$50.00
300-					
500	Mogul	2830-220	50.00	2830-230	50.00
Type III					
150	Medium	2840-240	50.00	2840-260	50.00
300-					
500	Mogul	2830-240	50.00	2830-260	50.00

I.E.S. Type Optical System					
Type II					
Watts	Base	Cat. No. (2)	Each	Cat. No. (2)	Each
150	Medium	2840-220	\$50.00	2840-230	\$50.00
300-					
500	Mogul	2830-220	50.00	2830-230	50.00
Type III					
150	Medium	2840-240	50.00	2840-260	50.00
300-					
500	Mogul	2830-240	50.00	2830-260	50.00

I.E.S. Type Optical System					
Type II					
Watts	Base	Cat. No. (2)	Each	Cat. No. (2)	Each
150	Medium	2840-220	\$50.00	2840-230	\$50.00
300-					
500	Mogul	2830-220	50.00	2830-230	50.00
Type III					
150	Medium	2840-240	50.00	2840-260	50.00
300-					
500	Mogul	2830-240	50.00	2830-260	50.00

(1) Ballast type abbreviations: HRN—High Reactance—Normal Power Factor; CWA—Constant Wattage Autotransformer—High Power Factor; RN—Reactor—Normal Power Factor; RH—Reactor—High Power Factor.

(2) Photocontrol Receptacle prewired available. Add suffix "P" to catalog number.

GARDEN-LITE — SERIES 4370-4380

Offered in two sizes, the 4370 and 4380 provide matched garden and parking or walkway lighting.

The dark green plastic tops of the diffusers are firmly cemented to the white, translucent lower portions to prevent entrance of moisture, dust, and insects.

Units with 24" diffusers operate on 110/125 volt lines and accommodate three 60-watt incandescent lamps. The 30" luminaires use three 60-watt incandescent lamps or a single 100-watt mercury lamp. Mercury units feature built-in ballasts. The Garden-Lite slips 2" slip fitters.



Cat. No.	Dia. In.	Lamps	Voltage	Ballast Type (1)	Each
Luminaires for Incandescent Lamps					
4370-G2	24	3-60W	110/125	.....	\$62.00
4380-G2	30	3-60W	110/125	.....	80.00
Luminaires for Mercury Lamps					
4384-G2	30	1-100W	120	HRN	91.00
4387-G2	30	1-100W	240	RN	91.00

(1) Ballast type abbreviations: HRN—High Reactance—Normal Power Factor. RN—Reactor—Normal Power Factor.

GARDEN-LITE — SERIES 4301

The lines of the Series 4301 Garden-Lite make this fixture an impressive addition to traditional and contemporary surroundings.

Available for use with either 200-watt incandescent or 250-watt mercury lamps with remotely mounted ballasts, the luminaires slip 2" pipe.

Two concentric louvers on the Series 4301 are perforated to add a distinctive effect. The 34" steel reflector and the louvers are internally finished in a high reflectant white paint. The dark green exteriors blend with most outdoor settings. (Other colors are available on special order).



Cat. No.	Lamps	Base	Each
4301	200W A-25	Medium	\$60.00
4301-M	250W Mercury	Mogul	70.00

REVERE LIGHTING EQUIPMENT

"GPF" SERIES 510 AND 512 FLOODLIGHTS

For 300-1500W Incandescent, 400W Mercury and Metallic Vapor Lamps



Series 510 and 512 floodlights feature spun aluminum reflectors in diffused and specular finishes. Cast aluminum socket housings are designed for rapid dissipation of lamp heat. The 18" dia. hinged lens is mounted in a corrosion resistant ring and held to the reflector with three spring latches. Degree marked protractor and aiming sight provided. Open reflector units are hinged so that lens assembly, if desired, can be added after installation.

I.E.S. Type (1) (Beam Spread)	— Enclosed Reflector —		— Open Reflector —	
	Cat. No. (2)	Each	Cat. No. (2)	Each
Open Wiring — Yoke Mounting				
1	510-F100	\$40.90	510-N100	\$28.20
2	510-F200	35.90	510-N200	23.20
3	510-F300	35.90	510-N300	23.20
4	510-F400	29.90	510-N400	17.20
5	510-F500	29.90	510-N500	17.20
Open Wiring — Crossarm Mounting				
1	510-F101	42.60	510-N101	29.90
2	510-F201	37.60	510-N201	24.90
3	510-F301	37.60	510-N301	24.90
4	510-F401	31.60	510-N401	18.90
5	510-F501	31.60	510-N501	18.90
Open Wiring — 2" Slipfitter Mounting				
1	510-F102	43.90	510-N102	31.20
2	510-F202	38.90	510-N202	26.20
3	510-F302	38.90	510-N302	26.20
4	510-F402	32.90	510-N402	20.20
5	510-F502	32.90	510-N502	20.20
Enclosed Wiring — 2" Slipfitter Mounting				
2	512-F202	43.80	512-N202	31.10
3	512-F302	43.80	512-N302	31.10
4	512-F402	37.80	512-N402	25.10
5	512-F502	37.80	512-N502	25.10

(1) IES types apply only for incandescent lamps. Beam spreads: 1—Very Narrow, 2—Narrow, 3—Medium, 4—Medium Wide, 5—Wide.
 (1) IES type "1" sockets positioned for 1500W base-down burning G48 lamp. Other types positioned for PS52 lamp.
 (2) Ballasts and lamps not included.
 (2) Add catalog number 66-71-3 for floodlight factory-wired with 3' of 14-3 type S cord.
 (2) Other mountings available for Open Wiring floodlights; order "Yoke Mtg." fixture and select mountings from Accessories.

"GPF" SERIES FLOODLIGHT ACCESSORIES

Cat. No.	Description	Each
510-X0	Lens/Ring Assembly	\$12.70
510-X1	Crossarm Fitter	1.70
510-X7	2" Slipfitter (Vertical Mtg.)	3.00
510-X3	2" Slipfitter (Horizontal Mtg.)	3.00
510-X6	Wall Bracket	4.70
510-X2	Pipe Clamp Bracket.....	3.00
510-X5	Flat Base Fitter.....	3.00

"GPF" SERIES 511 AND 513 FLOODLIGHTS

For 400W, 1000W Mercury and Metallic Vapor Lamps

Series 511 and 513 floodlights are similar to Series 510 and 512. Cast aluminum socket assemblies, however, are attached to the back of the reflectors.

Beam Spread (1)	— 400W Enclosed Reflector —		— 1000W Enclosed Reflector —	
	Cat. No. (2)	Each	Cat. No. (2)	Each
Open Wiring — Yoke Mounting				
2	511-F240	\$40.90	511-F280	\$40.90
5	511-F440	29.90	511-F480	29.90
6	511-F540	29.90	511-F580	29.90
Open Wiring — Crossarm Mounting				
2	511-F241	42.60	511-F281	42.60
5	511-F441	31.60	511-F481	31.60
6	511-F541	31.60	511-F581	31.60
Open Wiring — 2" Slipfitter Mounting				
2	511-F242	43.90	511-F282	43.90
5	511-F442	32.90	511-F482	32.90
6	511-F542	32.90	511-F582	32.90

Enclosed Wiring — 2" Slipfitter Mounting

2	513-F242	48.70	513-F282	48.70
5	513-F442	37.80	513-F482	37.80
6	513-F542	37.80	513-F582	37.80

(1) Beam Spreads: 2—Narrow, 5—Wide, 6—Very Wide.
 (2) Ballasts and lamps not included.
 (2) Add catalog number 66-71-3 for floodlight factory-wired with 3' of 14-3 type S cord.
 (2) Other mountings available for Open Wiring floodlights; order "Yoke Mtg." fixture and select mountings from Accessories.

SERIES 2330 OPEN BOTTOM REFRACTORS



An economical means of providing automatically controlled dusk-to-dawn lighting for a wide range of private and rural lighting applications. Installation can be made on any wooden pole using existing 120 or 240 volt lines.

Unit comes packaged complete with luminaire with pre-wired receptacle for photocontrol, plus appropriate lamp and built-in prewired ballast for mercury lighting; photocontrol; aluminum bracket in 30" size; mounting hardware.

Cat. No.	Watts	Volts	Type Lamp	Each
2332-A366C	400	120	Incandescent	\$43.60
2335-A366C	175	240	Mercury	47.60
2336-A366C	250	240	Mercury	55.60
2338-A366C	175	120	Mercury	50.30
2339-A366C	250	120	Mercury	71.60

REVERE LIGHTING EQUIPMENT

SERIES 466 RIGID SQUARE TAPERED STEEL POLES



Series 466 poles are constructed of square tapered, preformed steel channels to provide maximum strength with a minimum investment. All poles are designed for anchor base mounting; a set of anchor bolts and nuts is provided. Red oxide primer is applied to the inside and outside of all poles.

Cat. No. (1)	Nominal Mtg. Ht., Ft.	Proj. Area Sq. Ft. 75 MPH	Pipe Tenon, In.	Each
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"M" Duty — For Medium Duty Applications

466-M102	10	12	2	\$ 51.00
466-M122	12	12	2	57.00
466-M142	14	12	2	63.00
466-M162	16	12	2	67.00
466-M182	18	12	2	78.00
466-M202	20	12	2	91.50
466-M242	24	12	2	97.70
466-M302	30	12	2	109.00
466-M352	35	12	2	120.00

"H" Duty — For Heavy Duty Applications

466-H102	10	19	2	56.00
466-H122	12	19	2	62.00
466-H142	14	19	2	69.00
466-H162	16	19	2	78.00
466-H202	20	19	2	98.00
466-H242	24	19	2	106.00
466-H302	30	19	2	121.00
466-H352	35	19	2	135.00
466-H392	39	19	2	148.00

"X" Duty — For Extra Heavy Duty Applications

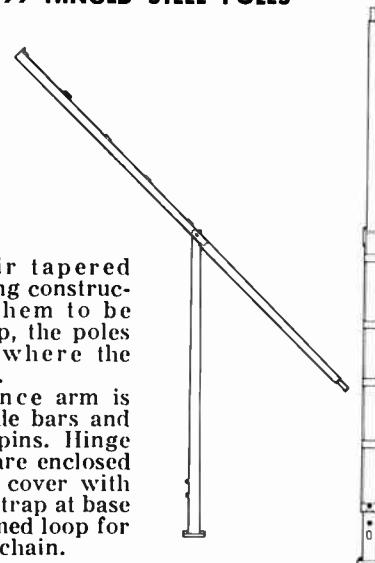
466-X102	10	25	2	67.00
466-X122	12	25	2	74.00
466-X142	14	25	2	81.00
466-X162	16	25	2	89.00
466-X202	20	25	2	116.00
466-X243	24	25	3	129.00
466-X303	30	25	3	153.00
466-X353	35	25	3	178.00
466-X393	39	25	3	201.00

(1) Includes four anchor bolts and nuts.

MODIFICATIONS FOR SERIES 466 POLES

Cat. No.	Description	Each
66-10	Double Festoon Outlet.....	\$14.00
66-11	Grounding Lug	1.50
66-18	Handhole 3" x 5"	6.00
66-19	Handhole 2" x 4"	5.00
66-25	3" Pipe Tenon instead of standard....	N.C.
66-65	3½" Pipe Tenon instead of standard	N.C.
66-61	Base Cover	4.00

SERIES 199 HINGED STEEL POLES



Because their tapered square steel tubing construction permits them to be lighter at the top, the poles are strongest where the stress is greatest.

Counterbalance arm is made of steel side bars and pivot on hinged pins. Hinge pin and wiring are enclosed by an aluminum cover with gasket. Lockup strap at base of arm has a formed loop for attaching lower chain.

Four strengths are available to meet individual loading requirements. Light weight "G" duty poles are designed for lampholder combinations or one general purpose floodlight. Heavier "M" and "H" duty poles are designed for area lights or three to five ballasted mercury floods. Extra heavy "X" poles are recommended for large area lights, such as Ultra-Lites, or up to 8 floods with inline bracketing. All poles finished inside and outside with red oxide primer. Anchor bolts and nuts provided.

Cat. No. (1)	Nominal Mtg. Ht. Ft.	Proj. Area Sq. Ft. 75 MPH	Pipe Tenon, In.	Each
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"G" Duty — For Light Duty Applications

199-G16	16	5.5	2	\$ 54.00
199-G18	18	5.0	2	55.00
199-G20	20	4.0	2	57.00
199-G24	24	2.5	2	62.00

"M" Duty — For Medium Duty Applications

199-M162	16	9	2	97.00
199-M202	20	9	2	103.00
199-M242	24	9	2	110.00
199-M302	30	9	2	123.00
199-M352	35	9	2	137.00

"H" Duty — For Heavy Duty Applications

199-H162	16	12	2	106.00
199-H202	20	12	2	119.00
199-H242	24	12	2	134.00
199-H302	30	12	2	162.00
199-H352	35	12	2	191.00

"X" Duty — For Extra Heavy Duty Applications

199-X242	24	20	3	160.00
199-X302	30	20	3	204.00
199-X352	35	20	3	248.00

(1) Includes four anchor bolts and nuts.

MODIFICATIONS FOR SERIES 199 POLES

Cat. No.	Description	Each
66-10	Double Festoon Outlet.....	\$14.00
66-11	Grounding Lug	1.50
66-18	Handhole 3" x 5"	6.00
66-19	Handhole 2" x 4"	5.00
66-25	3" Pipe Tenon instead of standard....	N.C.
66-65	3½" Pipe Tenon instead of standard	N.C.
66-61	Base Cover	4.00

PAR LIGHT QUARTZ IODINE FLOODLIGHTING

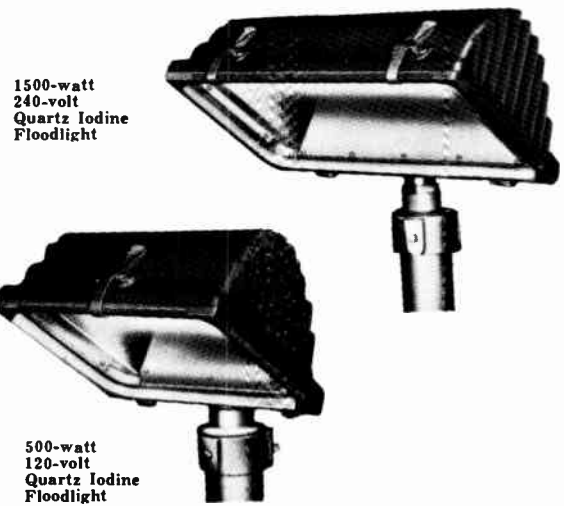


Without lens —
with 400 T4Q/CL lamp
Cat. No. WL 400 WD

With lens —
with 300 T4Q/CL lamp
Cat. No. WL 400 WD/LA

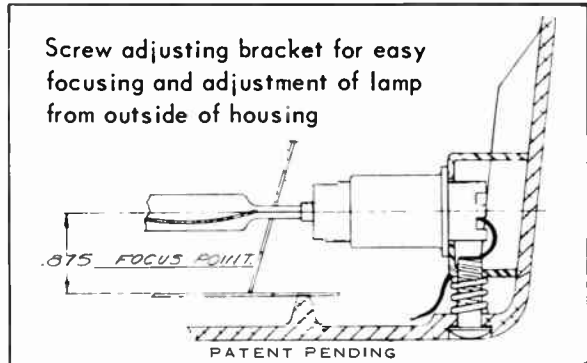
SUN BRIGHT 300 AND 400 WATT

This rugged, compact unit is about the size of a grapefruit weighing only 18 oz. Use inside or outside, permanent or portable. Easily adjusted vertically and horizontally with swivel and gasketed knuckle. Standard 1/2" thread assures easy mounting. Reflectivity of reflector material is superior to any comparable reflector on the market, and will not deteriorate under any climatic condition. Unique design of die-cast aluminum housing gives maximum heat dissipation. No lens cover required when the 400-watt fixture is operated below the horizontal plane. The available lens cover must be installed when operating fixture above the horizontal plane. Comes wired, ready for installation; packaged in individual carton.



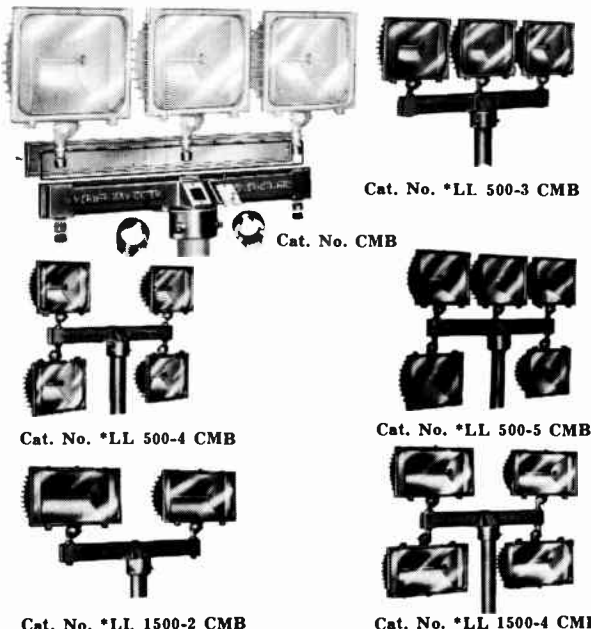
1500-watt
240-volt
Quartz Iodine
Floodlight

500-watt
120-volt
Quartz Iodine
Floodlight



Screw adjusting bracket for easy focusing and adjustment of lamp from outside of housing

**"INSTANT" BRACKETS
... for floodlighting**



Cat. No. *LI 1500-2 CMB

Cat. No. *LL 1500-4 CMB

Par Light Cross Arm Mounting Bracket. One complete package. No parts to order — each bracket comes completely packaged for field installation.

*Less Lamp

WIRE LENS GUARD

Twelve-gauge chrome wire lens guard protects lenses from breakage. Mesh openings are 1x2". Lens guards are shipped with lens frame, frosted lens, and hinge pins for application on fixture in field. Specify when ordering if lens guard is to be installed at factory. When guard is installed in the field the lens frame, lens, and gasket may be returned to factory for credit.



Cat. No. 500 WLG
Cat. No. 1500 WLG

MULTIPLE SLIP FITTER



No. 515 MSF
with four WL500

No. 515 MSF
with four WL 1500

Cat. No. 515 MSF

Designed for mounting cluster of floodlights on 2 1/2" and 3" poles. Allows a wide variety of combinations of one to four Par Light 500 or 1500 watt fixtures for four-way directional floodlighting.

Price on Application

STEBER UTILITES

Listed by Underwriters' Laboratories, Inc.

PAR-38 AND R-40 LAMPHOLDERS

Utilites are available for every application: counter, ceiling, wall or outlet box mounting. Fully adjustable, they accommodate PAR-38 and R-40 reflector, flood and spot lamps, infrared heat and drying lamps, sun lamps, etc. Rugged construction with weatherproof finish, assures long and satisfactory service.

No. 2 UTILITE



No. 2

No. 2-SO

Weatherproof outdoor holder for use with PAR-38 lamps, equipped with flat round gasket to permit watertight fit between lamp and holder. Made of drawn steel with weatherproof finish, and special means of dissipating heat at socket terminals. Universal adjustment. Mounted on 3 1/4" or 4" base plate punched for wall bracket or outlet box mounting. Approved cord and plug. Lamp not included.

Cat. No.	Mounting Provision	Each
2	Base Plate for surface or outlet box mounting	\$1.60
2-O	Same as No. 2 but without cord and plug	1.16
2-SO	Base Plate and Ground Spike	1.72
2-S	With Ground Spike only	1.60
2-BSO	Same as No. 2-SO except packaged in plastic bag	1.80

No. 3 UTILITE



For indoor use with R-40 lamps for displays and window lighting, or for infrared, heat and sun lamps. Universal adjustment. Holes provided for permanent attachment to any flat surface or to 3 1/4" or 4" outlet box. Approved cord and plug. Lamp not included.

Cat. No.	Mounting Provision	Each
3	Base Plate for surface or outlet box mounting	\$1.44

No. 4 UTILITE



A pin-up, stand-up, fully adjustable Utilite for PAR-38 and R-40 lamps. Designed for indoor holiday decorative lighting.

Heavy gauge steel wire stand is formed to facilitate wall hanging or surface mounting. Socket housing, with medium base porcelain socket is attached to support by two wing nuts

for easy, firm adjustment. Rubber bumpers are provided on forward feet.

Attractively finished in gold and black. Equipped with 6' cord and plug.

No. 4 Wall-Surface Stand each \$1.60

No. 12 ALL ALUMINUM UTILITES

For indoor or outdoor service where extreme moisture or salt air are prevalent. Aluminum socket housing attractively finished in jet black.

No. 12 has base plate for wall or surface mounting; base plate punched to fit 3 1/4" or 4" outlet box. No. 12-S furnished with aluminum ground spike. No. 12-SO furnished with both base plate and ground spike.

All units furnished with attached weatherproof cord and plug and lamp gasket. Wing nuts provide universal adjustment.



Cat. No.	Mounting Provision	Each
12	With Base Plate	\$2.04
12-S	With Ground Spike	2.00
12-SO	With Base Plate and Ground Spike	2.16

No. 8 SWIVEL-TYPE UTILITE



Adjustable to any desired position — 360 degrees horizontal, 180 degrees vertical — without damage to conductors. Swivels freely and holds position without set screws.

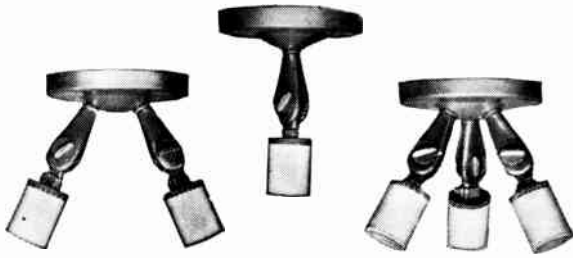
No. 8 Utilite with cast aluminum base attaches directly to 3 1/4" or 4" outlet box.

No. 8 Swivel-Type Utilite each \$1.76

STEBER UTILITES

Listed by Underwriters' Laboratories, Inc.

SWIVEL ARM UTILITES



Drawn steel canopy with Graytone Ultramel finish attaches to 4" outlet box. Thumb screw control can be set to swivel or to lock in a fixed position — no tools required. Porcelain sockets include flexible leads.

Cat. No.	Description	Each
8-1	Single Lamp Unit	\$1.88
8-2	Two-Lamp Unit	3.28
8-3	Three-Lamp Unit	4.56

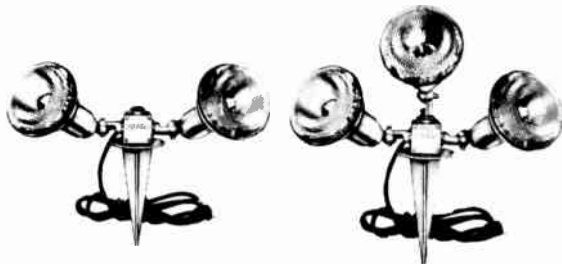
No. 13 VERSATILE SPRING CLAMP UTILITE



Provides a quick and convenient light source which may instantly be hand-mounted to any support. Sturdy spring steel clamp provides a firm grip without the aid of tools. Rubber sleeving prevents marring fine finishes. Drawn steel lamp housing is equipped with porcelain socket. Fully wired with 6' of approved cord and attachment plug. Weatherproof lamp gasket. Universal adjustment permits light or heat to be projected in any direction.

No. 13 Spring Clamp Utiliteeach \$2.08

TWO AND THREE LIGHT UTILITES



No. 22

No. 23

Ideal for brilliant holiday or year 'round flood-lighting. One cluster unit will light entire front of average home. Cast, rust and corrosion-proof Steberlites with aluminum combination junction box and ground spike. Factory wired with 20' weatherproof cord set.

Cat. No.	Description	Each
22	Two-Lamp Unit	\$6.60
23	Three-Lamp Unit	7.96

STEBER ACCESSORIES AND COLOR EQUIPMENT

UTILITE CONCENTRIC LOUVER



Consists of two concentric steel bands arranged to intercept horizontal light and provide cut-off. Attached to lamp by wire clips secured by flexible wire wound around lamp. Furnished in mat black for concentrated light.

No. U-48 Concentric Louvereach \$1.20

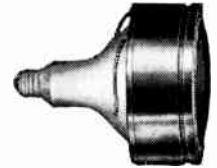
UTILITE WIRE GUARDS

Utilite Guard No. U-60 affords protection against lamp breakage. Clamp arrangement permits quick attachment to Steber Nos. 2, 2-S, 2-SO and 3 Utilites.

No. U-60 Wire Guardeach \$1.60

U-40 UTILITE LENS HOLDER

This improved U-40 lens has a deeper collar for increased efficiency. It is equipped with sturdy spring clip and is easily attached to either PAR-38 or R-40 lamp. Available with heat resisting lenses in amber, blue, green and red.



No. U-40 Lens Holdereach \$0.56

UTILITE HEAT RESISTING COLOR LENSES



U-45

These lenses are heat resisting and may be used with safety indoors with PAR-38 or R-40 lamps. For outdoor use, these lenses will withstand all atmospheric conditions, even where severe changes in temperature may take place. Only in standard colors (use suffix A, R, G, B to denote amber, red, green or blue).

No. U-45 Heat Resisting Lenseach \$0.80

UTILITE COMBINATIONS

Cat. No.	Description	Each
U-46	U-40 Lens Holder with 1 Heat Resisting Lens*	\$1.32
U-47	U-40 Lens Holder and 4 assorted Heat Resisting Lenses in standard colors	3.60

*Use suffix A, R, G, B to denote amber, red, green or blue.

SHALDA OUTDOOR LIGHTING

LAMP HOLDERS



For all medium base PAR and R lamps. Die cast aluminum, silicon gasket, heavy duty reinforced porcelain socket. Baked aluminum acrylic finish.

Cat. No.	Description	Each
103	Conduit mount, 1/2" NPT calibrated male swivel	\$1.95
103-6N	Portable, spike and 6' cordset.....	4.77

BELL LAMP HOLDERS



For all medium base PAR and R lamps. Die cast aluminum, silicon gasket, heavy duty porcelain socket. Baked acrylic finish. Standard color is aluminum, black and green also available.

Cat. No.	Description	Each
103-7	Conduit mount, 1/2" NPT calibrated male swivel	\$2.41
103-9N	Portable, spike and 6' cordset.....	5.14

BULLET LAMP HOLDERS



For medium base PAR 38 lamps. Die cast aluminum, heavy duty reinforced porcelain socket. Baked acrylic finish. 309 Series furnished with die cast aluminum extension tube.

Cat. No.	Description	Each
308*	Conduit mount, 1/2" NPT calibrated male swivel	\$3.53
308-2N	Portable, spike and 6' cordset.....	6.75
309*	Conduit mount, 1/2" NPT calibrated male swivel	6.17
309-2N	Portable, spike and 6' cordset.....	9.86

*Standard color aluminum, black and green also available.

LAMP HOLDERS



For all medium base PAR and R lamps. Die cast, porcelain socket, 1/2" NPT male swivel.

Cat. No.	Description	Each
104	Bright chrome finish, neoprene gasket	\$1.30
109	Economy lampholder .....	.84

HANDY HOLDERS



For all medium base PAR and R lamps. Adjustable bracket mount, aluminum housing, porcelain socket, 6' cordset.

Cat. No.	Description	Each
135	With universal base plate.....	\$1.36
135-5	With ground spike, weatherproof cordset	1.51

PAR 56 LAMP HOLDERS



Die cast aluminum. Calibrated 1/2" NPT male swivel fitting. High temperature mogul prong socket with silicon leads. Hinged door with marine type lock and silicon lamp gasket. Aluminum baked acrylic finish.

Cat. No.	Description	Each
306	For 300 watt PAR 56 lamps.....	\$ 9.30
306-Q	For Q500 PAR 56 quartz lamps....	10.79
1306-C	7 7/8" dia. accessory lens. For aiming up	1.64
1309	Glare Shield. Alum. Rotates 360°..	1.80
1309-6	Glare Tube. Aluminum. 6" long..	2.29

R60 LAMP HOLDERS



For use with all Mercury Vapor, Quartz and Incandescent R60 lamps, 1000 Watt maximum. Cast aluminum holder with anodized spun aluminum shield or tube. Mogul base porcelain socket, high temperature silicon insulated leads and calibrated 1/2" NPT male knuckle swivel. Baked acrylic finish.

Cat. No.	Description	Each
106-624	With glare shield	\$11.43
106-634	With glare tube	10.13

POLE-TOP 400 WATT MERCURY



Complete assembly for R60, 400 Watt Mercury Vapor lamps. Consists of completely adjustable lampholder, pole top adaptor box, and weather-proof 120/240 Volt constant wattage ballast. Slip-fits 1 1/2"-2" pipe pole top.

Cat. No.	Description	Each
774-112	Single light assembly less lamp....	\$ 87.67
774-212	Two light assembly less lamps....	129.52

T-6 QUARTZ FLOODLIGHTS



A general purpose enclosed floodlight, available in three beam spreads. For use with 120 Volt 1000 Watt high intensity T-6 Quartz lamps. Die cast aluminum rear relamping housing. 16" aluminum reflector in polished Alzak to diffused finish. Heat-tempered clear lens, calibrated quadrants and Universal bracket for crossarm mounting. 30" #16-3 service cord. Accessories available.

Cat. No.	Description	Each
661-61	Narrow, 13° x 21°, beam. 750,000 CP	\$45.07
663-61	Medium, 32° x 40°, beam. 174,000 CP	40.61
665-61	Wide, 78° x 72°, beam. 55,000 CP ..	37.88

SHALDA OUTDOOR LIGHTING

FLOODLIGHTS



Multi-purpose open type floodlights for Incandescent and Mercury Vapor lamps, 1500 Watts maximum. Heavy spun aluminum reflector with Alumilite finish. Adjustable Universal mounting bracket. Mogul base socket.

Cat. No.	Description	Each
612	12" dia. 500 watt max.....	\$ 9.79
614	14" dia. 500 watt max.....	13.02
616	16" dia. 1500 watt max.....	14.35

PORTABLE FLOODLIGHTS



Furnished with aluminum reflector, medium base porcelain socket, 6' cordset, adjustable yoke bracket and universal base plate.

Cat. No.	Description	Each
108	8½" diameter, 150 watt maximum..	\$ 3.47
108-4N	8½" diameter, 150 watt maximum, weatherproof cordset	5.33
110	10" diameter, 300 watt maximum....	2.95

100 WATT MERCURY LAMPHOLDERS



For effect lighting using 100 watt PAR 38 H44-4 Mercury lamps. Consisting of die cast aluminum Bullet lampholder with lens, cast aluminum box with 120 Volt transformer. Black finish.

Cat. No.	Description	Each
309-8	Conduit mount with ½" NPT hub....	\$41.54
309-10	Portable with 6' cordset.....	42.47

PAR 56 UNDERWATER LIGHTS



All cast bronze lamp housing, face ring, adjustable yoke and 12" dia. base. Mogul prong socket and 9' #16-3 submersible cord. For 120 volt lamps. 8¾" dia. clear lens, colored lenses available.

Cat. No.	Description	Each
422-5	For 300 watt PAR 56 lamp.....	\$48.98
424-5	For 500 watt quartz PAR 56 lamp..	51.15

UNDERWATER LIGHTS



For medium base lamps, cast bronze construction with adjustable yoke. 10" dia. base and 9' #18-3 submersible cord. 6½" dia. clear lens, colored lenses available.

Cat. No.	Description	Each
418-5	For max. 150 watt PAR 38 lamp	\$48.98
420-5	For max. 300 watt R40 lamp	58.28

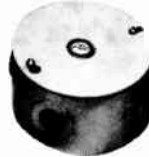
BOX COVERS



Die cast aluminum. Fits 3½"-4" outlet box. 4½" diameter, ½" NPT hub. Furnished with gasket.

Cat. No.	Description	Each
206-BC	Single ½" hub.....	\$0.39
206-BC2	Two ½" hubs.....	.65
206-BC3	Three ½" hubs.....	.80

ADAPTOR BOXES



Die cast aluminum, 4¼" diameter with gasketed aluminum cover. ½" NPT hubs and two closure plugs.

Cat. No.	Description	Each
204	With 4 hubs @ 90°.....	\$ 1.55
204-2	#204 box with wall mounting lugs....	1.70
206	With 6 hubs @ 60°.....	2.32
206-S	#206 with locking set screws at hubs	2.97

POLE TOP ADAPTOR BOXES



Cast aluminum, slipfits 1½"-2" (1.9 O.D.—2.375 O.D.) pole top. Splice box with gasket cover, 5½" NPT tapped hubs.

Cat. No.	Description	Each
208	Standard box	\$ 3.59
208-S	Provided with hub set screws.....	4.24
218-4	Extra large box with hub set screws	6.85

UNDERGROUND JUNCTION BOXES



Galvanized cast iron box and cover with neoprene gasket. ½" NPT hubs, stainless hardware.

Cat. No.	Description	Each
1414	With 2 hubs @ 180° & cover hub. \$	7.19
1414-12	With 2 bottom hubs & cover hub..	7.19
1414-14	With 4 hubs @ 90°.....	7.84

WALKWAY LIGHTS



Attractive diffused pole top area light for use with incandescent or mercury lamps. Spun aluminum top reflector, acrylic diffuser. Cast aluminum fitter for 2.375" O.D. pole top. (Also available for 3" O.D. pole top).

Cat. No.	Description	Each
801-2	26" dia. med. base max. 300 watt....	\$35.34
801-2MV	26" dia. mog. base max. 250w. M.V.	35.65
803-2	18" dia. med. base max. 150 watt....	31.00

BALL LIGHTS



Acrylic ball fixture with medium base socket and cast aluminum fitter for 2.375" O.D. pole top. The acrylic ball will retain its high luster and will not yellow.

Cat. No.	Description	Each
808-12	12" diameter, 100 watt maximum.....	\$29.70
808-16	16" diameter, 200 watt maximum.....	55.74
808-22	22" diameter, 300 watt maximum.....	70.68

SHALDA OUTDOOR LIGHTING

UP LIGHTS



Copper and bronze lamp-holder for medium base PAR and R lamps, 150 watt max. Provided with glare tube and clear gasketed lens, colored lenses available.

Cat. No.	Description	Each
531	Conduit mount, 1/2" NPT male swivel.	\$54.90
531-2	Portable, spike and 6' cordset.	60.73
531-3	#531 with junction box, two 1/2" NPT hubs @ 180°.	61.91

FLUSH WELL LIGHTS



Copper and bronze lampholder with transite burial and junction box with two 1/2" NPT hubs @ 180°, 120 volts.

Cat. No.	Description	Each
532	For 150 watt medium base PAR & R lamps	\$48.33
532-MV	For PAR 38 H44-4 M.V. lamp. Includes ballast	81.75

BORDER LIGHTS



Decorative copper and bronze light with acrylic diffuser, staff and direct burial junction box with two 1/2" NPT hubs @ 180°. Medium base socket and 60 watt lamp. Exclusive antique "Verdi" finish.

Cat. No.	Description	Each
534	Heavy spun copper canopy.	\$33.45
536	Cast bronze canopy.	37.17

MUSHROOM LIGHTS



Decorative all copper and bronze spread light. Includes medium base fixture, staff and direct burial junction box with two 1/2" NPT hubs @ 180°. Exclusive antique "Verdi" finish.

Cat. No.	Description	Each
540	16" dia. x 27" high 100 watt max.	\$43.37
540-3	16" dia. x 39" high 100 watt max.	44.61
541	23 1/2" dia. x 51" high 300 watt max.	71.89

FLUORESCENT LIGHTSCAPERS



15 watt fluorescent fixture, all aluminum construction, 21" long. 129 volt ballast. Exclusive antique "Verdi" green finish. Includes green T-8 lamp.

Cat. No.	Description	Each
598	Conduit mount, two 1/2" NPT female swivels	\$23.56
598-2	Portable, spikes and 6' cordset	24.18

LOUVER LIGHTS



Die cast aluminum louvers and body, 6 1/2" diameter. Vaportight gasket globe and medium base socket. Baked acrylic finish, specify green or black.

Cat. No.	Description	Each
583	Three louver, 1/2" NPT hub. 100 watt max.	\$ 5.52
583-2N	Portable, #583 with spike and 6' cordset	8.37
587	Two louver, 1/2" NPT hub. 75 watt max.	6.97
587-2N	Portable, #587 with spike and 6' cordset	8.21
589	Single top louver, 1/2" NPT hub. 75 watt max.	4.96
589-2N	Portable, #589 with spike and 6' cordset	8.06

MUSHROOM LIGHTS



15" diameter mushroom shade and die cast body with medium base socket, 60 Watt maximum.

Cat. No.	Description	Each
511	Fiberglass shade, green or chartreuse, 1/2" NPT hub.	\$5.54
511-13	Aluminum shade, green or black, 1/2" NPT hub.	5.54
512N	Portable #511, 15" staff with spike, 6' cordset.	8.64
512-13N	Portable #511-13, 15" staff with spike, 6' cordset.	8.64

MUSHROOM LIGHTS



16" diameter aluminum shade, vaportight gasket globe, diffuser, die cast aluminum base with medium base socket 100 Watt maximum. Baked acrylic finish. Specify green or black.

Cat. No.	Description	Each
584	Conduit mount, 1/2" NPT hub, 15" leads	\$ 9.26
584-2N	Portable, 15" staff with spike, 6' cordset	12.36

ACCENT LIGHTS

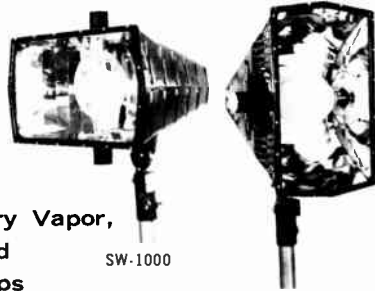


3" diameter floodlight. Aluminum housing with clear lens (colored lenses available). Verdi green finish. Includes 30 Watt R20 lamp.

Cat. No.	Description	Each
504	Conduit mount, 1/2" NPT male swivel	\$ 7.40
504-2N	Portable, spike and 6' cordset	9.88

WIDE-LITE FLOODLIGHTS

SW SERIES



**Floodlights for
Conventional Mercury Vapor,
Metallic Additive and
G. E. Lucalox® Lamps
Anodized Aluminum Finish**

Wide-Lite® SW Series floodlights are designed specifically to take advantage of the greater lumen output of modern light sources. Available in 400 and 1000 watt models, the SW is a gracefully styled, pre-wired fixture ready for installation as soon as it is removed from its carton. SW floodlights will accommodate all mercury vapor and metallic additive lamps now available, as well as newer lamps now under development. The entire SW floodlight, including the mast fitter and assembly rivets, is now anodized to offer the best known protection against corrosion. Outstanding features include a choice of either vertical or horizontal mounting position, integral ballasts (designed for operation in ambient temperatures as high as 150° F.), exclusive "flue" cooling, pre-wiring for faster installation, patented. Stabilux® lamp socket, rugged die-cast aluminum construction with cast-in cooling fins, anodized gray-bronze finish, tempered glass lens, and a calibrated mast fitter for quick, accurate aiming.

NOTE: CHOICE OF "A," "B," "C" OR "D" REFLECTORS AVAILABLE ON ALL SW MODELS. "A" and "B" reflectors are generally used with phosphor-coated lamps. Order "A" reflector for maximum width of beam without loss of uniform light distribution; "B" reflector when width is important but higher centerline intensity is needed; "C" reflector, designed for newer lamps, corresponds to "A" characteristics; and "D" corresponds to "B" pattern characteristics. Specify reflector with first letter in third part of catalog number. Example: to order fixture with "C" reflector, specify catalog number SW-1000-CWB.

Catalog Number	Ballast Characteristics**	Open Cct. Sec. Volts	Each
1000 WATT MODELS			
SW-1000-ALB	Ballast not included		\$120.00
SW-1000-AWB-L	115/125 v., HPF	460	216.00
SW-1000-AWB-C	210/236 v., HPF	460	213.75
SW-1000-AWB-D	460 v., HPF	460	184.50
SW-1000-AWB-E	277 v., HPF	460	217.50
SW-1000-AWSB-B	100-130, 200-260 dual voltage, HPF, stabilized output	400	222.75
SW-1000-AWSB-E	240-315 v., HPF, stabilized output	400	222.75
SW-1000-AWSB-M	200-260, 400-520 dual voltage, HPF, stabilized output	400	222.75
400 WATT MODELS			
SW-400-ALB	Ballast not included		\$ 78.00
SW-400-AWB-O	105/118 v., NPF	225	118.50
SW-400-AWB-A	236 v., NPF, reactor	236	114.75
SW-400-AWB-B	105/118, 210/236 dual voltage, HPF	225	135.00
SW-400-AWB-C	236 v., HPF, reactor	236	132.00
SW-400-AWB-D	460 v., HPF	225	135.00
SW-400-AWB-E	277 v., HPF, reactor	277	132.00
SW-400-AWB-F	105/118 v., HPF	300	144.00
SW-400-AWB-G	105/118, 210/236 dual voltage, HPF	300	152.25
SW-400-AWB-H	460 v., HPF	300	152.25
SW-400-AWSB-B	100-130, 200-260 dual voltage, HPF, stabilized output	250	157.50
SW-400-AWSB-E	240-315 v., HPF, stabilized output	250	157.50
SW-400-AWSB-M	200-260, 400-520 dual voltage, HPF, stabilized output	250	157.50

*Trademark of Wide-Lite Corporation

**All "Wide-Lite" ballasts are designed for operation in ambient temperatures as high as 150° F.

F SERIES

**Floodlights for
Mercury Vapor Lamps**



CHOICE OF REFLECTORS

NOTE: CHOICE OF "A," "B," "C" OR "D" REFLECTORS AVAILABLE ON ALL F MODELS. "A" and "B" reflectors are generally used with phosphor-coated lamps. Order "A" reflector for maximum width of beam without loss of uniform light distribution; "B" reflector when width is important but higher centerline intensity is needed. "C" reflector, designed for newer lamps, corresponds to "A" characteristics; and "D" corresponds to "B" pattern characteristics. Specify reflector with first letter in third part of catalog number. Example: to order fixture with "C" reflector, specify catalog number F-1000-CWB.

†Except 100, 175 and 250 watt fixtures.

Models without ballasts are supplied with a mast fitter for 2" pipe.

Catalog Number	Ballast Characteristics**	Open Cct. Sec. Volts	Each
1000 WATT MODELS			
F-1001-ALB	Ballast not included		\$111.00
F-1001-AWB-L	115/125 v., HPF	460	201.75
F-1001-AWB-C	210/236 v., HPF	460	199.50
F-1001-AWB-D	460 v., HPF, reactor	460	171.75
F-1001-AWB-E	277 v., HPF	460	203.25
F-1001-AWSB-B	100-130, 200-260 dual voltage, HPF, stabilized output	400	207.75
F-1001-AWSB-M	200-260, 400-520 dual voltage, HPF, stabilized output	400	207.75
F-1001-AWSB-E	240-315 v., stabilized output	400	207.75
400 WATT MODELS			
F-401-ALB	Ballast not included		\$ 72.00
F-401-AWB-O	105/118 v., NPF	225	110.25
F-401-AWB-A	236 v., NPF, reactor	236	107.25
F-401-AWB-B	105/118, 210/236 dual voltage, HPF	225	126.00
F-401-AWB-C	236 v., HPF, reactor	236	123.00
F-401-AWB-D	460 v., HPF	225	126.00
F-401-AWB-E	277 v., HPF, reactor	277	123.00
F-401-AWB-F	105/118 v., NPF	300	134.25
F-401-AWB-G	105/118, 210/236 dual voltage, HPF	300	141.75
F-401-AWB-H	460 v., HPF	300	141.75
F-401-AWSB-B	100-130, 200-260 dual voltage, HPF, stabilized output	250	147.00
F-401-AWSB-M	200-260, 450-520 dual voltage, HPF, stabilized output	250	147.00
F-401-AWSB-E	240-315 v., HPF, stabilized output	250	147.00
250 WATT MODELS			
F-250-ALB	Ballast not included		\$ 31.50
F-250-AWB-O	105/118 v., NPF	225	68.25
F-250-AWB-A	236 v., NPF, reactor	236	55.50
175 WATT MODELS			
F-175-ALB	Ballast not included		\$ 31.50
F-175-AWB-O	105/118 v., NPF	225	68.25
F-175-AWB-A	236 v., NPF, reactor	236	52.50
100 WATT MODELS			
F-100-ALB	Ballast not included		\$31.50
F-100-AWB-O	105/118 v., NPF	225	55.50
F-100-AWB-A	236 v., NPF, reactor	236	46.50

Vertical mounting bracket available on all 250, 175 and 100 watt models at same price. To order, add "V" to wattage figure in model number. For example, "F-250V-ALB."

WIDE-LITE FLOODLIGHTS

PL SERIES

Protective Lights for One Mercury Vapor and Two Incandescent Lamps



"Wide-Lite" 1000 and 400 watt Protective Light models use one mercury vapor and two incandescent lamps, wired independently. These models permit economical use of mercury lamps in temperatures below -20° F., and the incandescents provide an auxiliary light source for security installations.

Catalog Number	Ballast Characteristics**	Open Cct. Sec. Volts	Each
1000 WATT MODELS			
PL-1001-ALB	Ballast not included—2" mast fitter furnished		\$129.00
PL-1001-AWB-L	115/125 v., HPF	460	225.75
PL-1001-AWB-C	210/236 v., HPF	460	224.25
400 WATT MODELS			
PL-401-ALB	Ballast not included—2" mast fitter furnished		\$ 84.00
PL-401-AWB-0	105/118 v., NPF	225	132.00
PL-401-AWB-A	236 v., NPF, reactor	236	129.00
PL-401-AWB-B	105/118, 210/236 dual voltage, HPF	225	147.75

**All "Wide-Lite" ballasts are designed for operation in ambient temperatures as high as 150° F.

PEDESTALS

The Pedestal is a new concept in pole design, combining great strength with graceful styling. It is constructed of three upright members joined by welded castings at intervals along its length. Aluminum and steel models are available in four fixture mounting heights of from 30 to 50 feet. Pedestal Crowns (pole top mounting brackets) are available for mounting from one to four fixtures on the Pedestal.

Pedestals also are available with epoxy-base coating of any color desired. For more information see your "Wide-Lite" representative.

Pedestal prices include precision aligned and welded AA-1 anchor assemblies with double nuts and aluminum nut covers.



Catalog Number	Description	Net Wt.	Est. Shpg. Wt.	Each
P-30-A W/AA-1	30' aluminum Pedestal, brush finish, wrapped prior to shipping	195#	240#	\$379.50
P-30-S W/AA-1	30' steel Pedestal, primed	440#	485#	267.00
P-30-G W/AA-1	30' steel Pedestal, galvanized	490#	537#	334.50
P-40-A W/AA-1	40' aluminum Pedestal, brush finish, wrapped prior to shipping (two-piece model)	236#	302#	447.00
P-40-S W/AA-1	40' steel Pedestal, primed (two-piece model)	574#	640#	312.00
P-40-G W/AA-1	40' steel Pedestal, galvanized (two-piece model)	624#	689#	379.50

MERCURY "4000" SERIES



Designed for the operation of four 1000 watt mercury vapor lamps, the Mercury "4000" fixture will effectively illuminate more than an acre. The Mercury "4000" is pre-wired with a pair of #18 wires for each lamp, and each fixture includes support brackets with mast fitter. A choice of clear or embossed glass lenses is offered.

Catalog Number	Description	Each
F-4000-ALB	For four 1000 watt lamps, clear lenses	\$478.50
F-4000-FLB	With diffusing lenses	478.50

HO SERIES

High Output Floodlights for Mercury Lamps



Catalog Number	Ballast Characteristics**	Open Cct. Sec. Volts	Each
HO-1001-BWB-15C	210/236 v., 1500 watt, HPF	460	\$215.25
HO-1001-BWB-15D	460 v., 1500 watt, HPF	460	183.75
HO-1001-BWB-15E	277 v., HPF	460	215.25

**All "Wide-Lite" ballasts are designed for operation in ambient temperatures as high as 150° F.

L SERIES

Floodlights for Quartz-Iodine Lamps

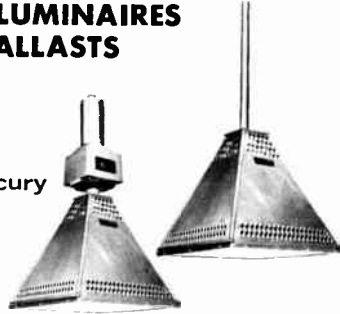


Catalog Number	Beam Characteristics	Each
1500 AND 1250 WATT MODELS		
L-1500-ALB	Narrow vertical spread	\$ 44.25
L-1500-BLB	Very narrow vertical spread	44.25
L-1500-CLB	Medium vertical spread	44.25
L-1500-DLB	Medium wide vertical spread	44.25
500 WATT MODELS		
L-500-ALB	Narrow vertical spread	\$ 36.00
L-500-BLB	Very narrow vertical spread	36.00
L-500-CLB	Medium vertical spread	36.00

WIDE-LITE LUMINAIRES AND BALLASTS

ID SERIES

Indoor Luminaires for Metallic Additive and Conventional and Mercury Vapor Lamps



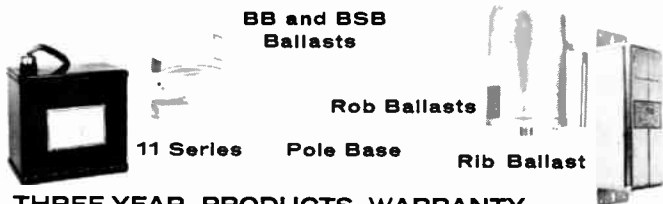
"A" and "C" pattern reflectors are available on all models. "A" reflector is made of specular Alzak and generally used with phosphor-coated lamps. It gives a medium spread pattern (1.0 spacing to mounting height ratio). "C" reflector is made of brushed Alzak. With phosphor-coated lamps, "C" reflector gives a spread pattern (1.4 ratio); with metallic additive lamps, a wide spread pattern (1.6 ratio). Specify reflector with the first letter in the third part of catalog number. Prices for fixtures are the same with either type reflector. Example: to order 1000 watt indoor luminaire with "C" reflector, specify catalog number ID-1000-CWB.

Catalog Number	Ballast Characteristics**	Dpen Cct. Sec. Volts	Each
1000 WATT MODELS			
ID-1000-ALB	Ballast not included		\$ 72.00
ID-1000-AWB-L	115/125 v., HPF	460	146.25
ID-1000-AWB-CR	210/236 v., 70% HPF, reactor (use H34-12 lamp)	210/236	116.25
ID-1000-AWB-C	210/236 v., HPF	460	144.75
ID-1000-AWB-D	460 v., HPF, reactor	460	116.25
ID-1000-AWB-ER	277 v., 70% PF, reactor (use H34-12 lamp)	277	126.00
ID-1000-AWB-E	277 v., HPF	460	147.75
ID-1000-AWB-B	100-130/200-260 dual voltage, HPF, stabilized output	400	154.50
ID-1000-AWB-E	240-315 v., stabilized output, HPF	400	154.50
ID-1000-AWB-M	200-260/400-520 dual voltage HPF, stabilized output	400	154.50
400 WATT MODELS			
ID-400-ALB	Ballast not included		\$ 57.00
ID-400-AWB-O	105/118 v., NPF	225	104.25
ID-400-AWB-B	105/118, 210/236 dual voltage, HPF	225	111.00
ID-400-AWB-C	210/236 v., HPF, reactor	210/236	92.25
ID-400-AWB-D	460 v., HPF	225	111.00
ID-400-AWB-E	277 v., HPF, reactor	277	92.25
ID-400-AWB-F	105/118 v., NPF	300	117.00
ID-400-AWB-G	105/118, 210/236 dual voltage, HPF	300	125.25
ID-400-AWB-H	460 v., HPF	300	125.25
250 WATT MODELS			
ID-250-ALB	Ballast not included		\$ 51.00
ID-250-AWB-D	105/118 v., NPF	225	92.25
ID-250-AWB-B	105/118, 210/236 dual voltage, HPF	225	108.00
ID-250-AWB-C	210/236 v., HPF, reactor	210/236	82.50
ID-250-AWB-D	460 v., HPF	225	103.50
ID-250-AWB-E	277 v., HPF, reactor	277	82.50

**All "Wide-Lite" ballasts are designed for operation in ambient temperatures as high as 150° F.

BALLASTS — OUTDOOR AND INDOOR MODELS

"Wide-Lite" indoor and outdoor ballasts for mercury vapor lamps are designed and constructed to provide years of trouble-free performance, and are available in models for integral use with "Wide-Lite" fixtures or for remote mounting. Potted construction and cast-in cooling fins on outdoor models. Class B transformer insulation and aluminum enclosures for protection from corrosion enable the Wide-Lite Corporation to guarantee its ballasts for THREE YEARS instead of the usual one year. And all "Wide-Lite" ballasts are designed for operation in ambient temperatures as high as 150° F.



BB and BSB Ballasts

Rob Ballasts

11 Series

Pole Base

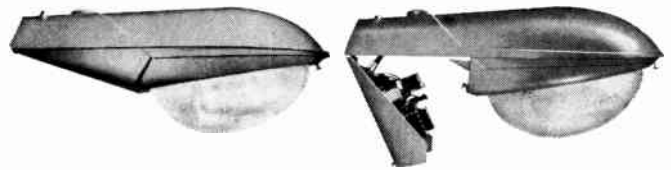
Rib Ballast

THREE-YEAR PRODUCTS WARRANTY

Wide-Lite Corporation warrants its products against defects in material and workmanship. Without charge, Wide-Lite Corporation will either repair or replace (Wide-Lite Corporation reserves the right to decide between repair or replacement) any properly installed "Wide-Lite" product which fails under normal operating conditions within THREE years from date of installation, provided it is returned to the factory, transportation prepaid, and our inspection determines it to be defective under terms of this warranty.

The warranty covers only equipment manufactured by Wide-Lite Corporation and does not extend to transportation, installation or replacement charges; nor does it apply to any equipment of another manufacturer used in conjunction with "Wide-Lite" equipment. No other warranty, expressed or implied, exists beyond that included in this statement.

GENERAL ELECTRIC STREET LIGHTING LUMINAIRES TYPE M MERCURY LUMINAIRES



Closed and open position of new M-250A/M-400 Powr/Door™ assembly. Type M mercury luminaires offer a complete family (100 watts to 1000 watts) of bracket-mounted fixtures for all types of roadway and area lighting applications. In each the reflector is precisely contoured and highly specular for optimum light on the ground. All units feature built-in ballasts to simplify installation.

General Electric's new M-250A and M-400A Powr/Door luminaires accommodate today's mercury lamps or new-design Multi-Vapor* and Lucalox® lamps. The unique design of the Powr/Door assembly protects your luminaire investment from obsolescence. Upgrading to more advanced lighting is accomplished with minimum trouble and expense by merely adjusting the socket and changing the replaceable Powr/Door assembly, which contains ballast and control. Useful luminaire life is thus greatly lengthened.

Features of Powr/Door Luminaires

- Powr/Door Assembly**—Easy to change. Loosen a captive screw and it lifts off.
- Reflector Door**—Redesigned to ease installation and servicing.
- Reflector**—Largest in the industry, gives greater visual comfort.
- Activated Charcoal Filter**—Maintains high light output.
- Adjustable Sockets**—Universal adjustment permits choice of lamp and light distribution pattern.
- Astrodome® Photoelectric Control**—Gives greater reliability, improved appearance.
- Adjustable Slipfitter**—Two-bolt adjustment speeds installation.
- Safety-guard Terminal Board**—Protects linemen, makes wiring easier and faster.
- Compatible Appearance**—Identity with style-setting predecessor maintained to keep streetlighting attractive and uniform.
- Bob-Lam Ballasts**—Have long life, high reliability.

Watts †	Volts	Type ‡	Ballast					
			Luminaire (Without Lamp)					
			With Astrodome Control		With P.E. Receptacle		Without P.E. Receptacle	
Cat. No.	Net Price, Each	Cat. No.	Net Price, Each	Cat. No.	Net Price, Each			

M-250A Powr/Door Luminaire with Built-in Ballast

175	120/240	Reg	C727G002§	\$88.50	C728G002§	\$84.00	C728G005§	\$81.00
	240	Reac NPF	C727G011¶	70.50	C728G020¶	66.00	C728G026	63.00
250	120/240	Reg	C727G003§	97.50	C728G003§	93.00	C728G006§	90.00
	240	Reac NPF	C727G012¶	79.50	C728G021¶	75.00	C728G027	72.00

M-250A Powr/Door Luminaire—External Ballast—250 Watts Maximum

					C726G001	\$42.00
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M-400A Powr/Door Luminaire with Built-in Ballast

400	120/240	Reg	C723G001§	\$108.00	C724G002§	\$103.50	C724G001§	\$100.50
	480	Reg					C724G004	100.50
240	240	Reac NPF	C723G003¶	90.00	C724G010¶	85.50	C724G003	82.50
		Reac HPF	C723G009¶	99.00	C724G021¶	94.50	C724G020	91.50

M-400A Powr/Door Luminaire for Lucalox Lamps

Watts	Volts	Description	Cat. No.	Net Price, Each
400	240	AXL front socket position, 120V Astrodome control	C723G502	\$141.00
	240	AXL front socket position, 240V Astrodome control	C723G501	141.00

† Other wattage ratings available.
 ‡ Other built-in ballast ratings: Regulator—208V, 277V, and 480V. Reactor—(M-250A and M-400A only) 277V HPF or NPF.
 § Factory wired for 120 (nominal)-volt operation of ballast and photoelectric control.
 ¶ Factory wired for 3-wire, 120/240-volt supply, 120 volts to photoelectric receptacle and 240 volts to ballasts.
 * Trade Mark General Electric Co.

GENERAL ELECTRIC STREET LIGHTING LUMINAIRE

POWR/BACKET* LUMINAIRES



Powr/Bracket luminaires are streamlined private-lighting units for commercial, industrial, home and farm applications. The

units are all assembled and prewired, and include built-in ballast, Astrodome photoelectric control, mercury lamp, hardware, and wire.

In 175- and 400-watt designs, these Powr/Bracket luminaires are easily and quickly mounted on wood or metal poles or on walls. To install on wall, just attach the adapter, put in two more bolts, and attach two leads. Pole mounting is even easier. All major electrical components are mounted on the drop-down door for easy access.

Watts	Volts	Ballast Type	Lamp Type	ASA /IES Type II (Elongated Distribution)		Complete Units Type V (Circular Distribution)	
				Cat. No.†	Net Price, Each	Cat. No.†	Net Price, Each
175	120	NPF Lag	Clear White Col. Imp.	C746G029	\$49.00	C746G025	\$49.00
				C746G088	49.60	C746G075	49.60
				C746G134	49.60	C746G082	49.60
175	120	Regulator	Clear White Col. Imp.	C746G032	56.84	C746G028	56.84
				C746G231	57.48	C746G101	57.48
				C746G150	57.48	C746G102	57.48
175	240	NPF Reactor⊕	Clear White Col. Imp.	C746G030	46.00	C746G026	46.00
				C746G232	46.60	C746G103	46.60
				C746G233	46.60	C746G081	46.60
175	240	HPF Reactor⊕	Clear White Col. Imp.	C746G031	50.72	C746G027	50.72
				C746G234	51.35	C746G104	51.35
				C746G143	51.35	C746G105	51.35
400	120	Regulator	Col. Imp.	.....	.....	C746G298	83.10
				.....	.....	C746G301	74.15
				.....	.....	C746G303	66.30
				.....	.....	C746G305	71.25

† Catalog numbers are for wood pole mounting only.
 ⊕ Includes: Powr/Bracket luminaire with integral ballast; 120-volt Astrodome photoelectric control (for reactor-ballast units, 120-volt control takes off of 240-volt supply); mounting hardware; lamp; 175 or 400-watt, clear, white or color improved; and optical assembly, complete with shatterproof acrylic refractor.
 ⊕ Factory wired for 3-wire, 120/240V supply; 120V to P.E. control, 240V to ballast.

ACCESSORIES

Outside Diameter of Pole Top (in.)	Adapter Cat. No.	Net Price, Each
Pole-Top Adapters		
3.0	35-968000-91	\$10.50
3.5	35-968000-92	10.50
4.0	35-968000-93	10.50
4.5	35-968000-94	10.50
Corner Mounting Bracket		
...	35-109882-01	5.25
Wall Mounting Adapter		
...	35-107748-01	6.00

G-E QUICK RESPONSE CONTROLS



General Electric Quick Response and Polyvolt photoelectric controls give precise automatic control of any lighting circuit. Every component used has been quality-proved in field applications to assure unsurpassed reliability. Their locking-type mounting fits all EEI-NEMA standard receptacles.

Nominal Supply Voltage	Max. Load† (Watts)	Nominal Fc Range Vertical	Control Element Cat. No.	Net Price, Each	Net Wt. (lbs.)
Quick Response Control					
120†	1000	1.0-3.0	C402G200	\$10.31	0.5
240	1000	1.0-3.0	C402G230	10.31	0.5
Polyvolt Control					
105 to 285	1000	1.0-6.0	C402G300	\$10.31	0.5

† 120-volt units will also control a 240-volt load from a 120/240-volt supply.
 ‡ Values shown are incandescent only. Maximum mercury or fluorescent loads: 1800 volt-amperes.
 * Trademark of General Electric Co.

MERCURY-LAMP BALLASTS EPOXY-ENCAPSULATED

Mercury Lamp		Primary Voltage	Catalog Number	Net Price, Each
Type (ASA)	Watts			
Reactor Type (High Power Factor) (for one lamp, 60 cps)				
H33	400	240	C312G101	\$40.00
H33	400	277	C312G103	40.00
H36	1000	480	C314G101	59.51
Regulator Type (for one lamp, 60 cps)				
H33	400	120/240	C304G101	50.51
H33	400	240/480	C304G103	50.51
H33	400	277	C304G105	50.51
H33	400	208	C304G107	50.51
H36	1000	120/240	C307G101	105.00
H36	1000	240/480	C307G103	105.00
H36	1000	277	C307G105	105.00
H36	1000	208	C307G107	105.00
Regulator Type (for two lamps, 60 cps)				
H33	400	120/240	C306G101	89.00
H33	400	240/480	C306G103	89.00
H33	400	277	C306G105	89.00
H33	400	208	C306G107	89.00



BRACKETS (For wood-pole luminaire mounting)

Nominal Length (Ft)	Cat. No.	Net Price, Each	Dimensions (In.)			Maximum Luminaire	
			A	B	C	Wt (Lb)	Area (Sq Ft)

GALVANIZED STEEL BRACKETS
Cantilever Style—1 1/4" Pipe (Fig. 1)

2	C621G001	\$4.05	21	12 1/4	8 1/2	90	5.0
2.5	C621G002	4.20	30	15 1/4	8 1/2	90	4.0
4	C621G003	5.25	45	18 1/4	8 1/2	70	3.1
6	C621G004	7.50	69	24 1/4	8 1/2	45	2.4

Cantilever Style—2" Pipe (Fig. 1)

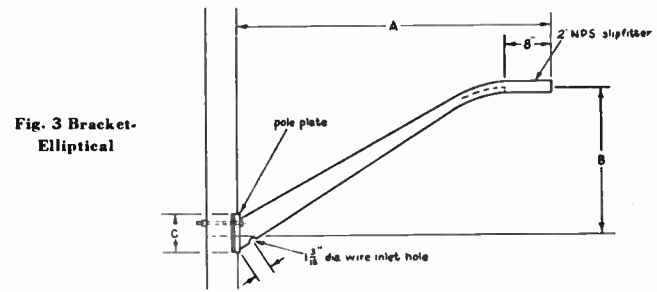
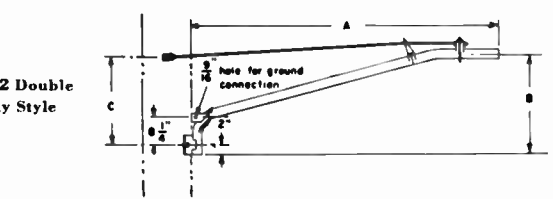
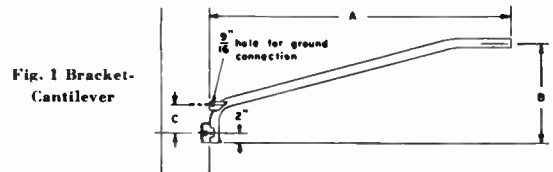
2	C623G001	5.25	21	12 1/4	8 1/2	100	5.0
2.5	C623G002	5.85	30	15 1/4	8 1/2	90	5.0
4	C623G003	6.90	45	18 1/4	8 1/2	90	4.0
6	C623G004	9.60	69	24 1/4	8 1/2	70	3.5
8	C623G005	11.10	93	29 1/4	8 1/2	45	2.4

Double-Guy Style—2" Pipe (Fig. 2)

8	C623G020	18.60	93	29 1/4	23	90	3.5
10	C623G021	21.75	117	35 1/4	25	70	3.1
12	C623G022	24.90	141	40 1/4	27	60	2.4
14	C623G023	28.05	165	46 1/4	30	40	1.3
16	C623G024	31.30	189	52 1/4	33	35	1.3

ALUMINUM BRACKETS
Elliptical Style—2" Pipe (Fig. 3)

4	C626G001	10.95	42	16	4 3/8	55	3.2
6	C626G002	13.65	66	24	4 3/8	36	2.4
6	C626G003	14.85	66	24	4 3/8	52	3.2
8	C626G004	16.95	90	30	5 1/2	37	1.9
8	C626G005	20.25	90	30	6 1/2	52	2.4
10	C626G006	23.70	114	30	6 3/8	39	1.3
10	C626G007	29.25	114	30	7	44	2.4



**KAISER ALUMINUM
ELECTRICAL PRODUCTS**
TAPERED ALUMINUM LIGHTING STANDARDS



New design in tapered aluminum standards for use in public, commercial and private lighting. Attractive appearance of spun poles at appreciably lower cost. Greater strength than spun poles for withstanding fatigue loads.

UNIFORM SHEET FORMED—Formed from aluminum sheet in alloy 5086, favored in marine use for excellent corrosion resistance. Uniform sheet thickness assures high, consistent strength at all points, full length of pole. Once formed, pole is seam welded, planished, brushed — seam becomes invisible under good-looking brushed finish.

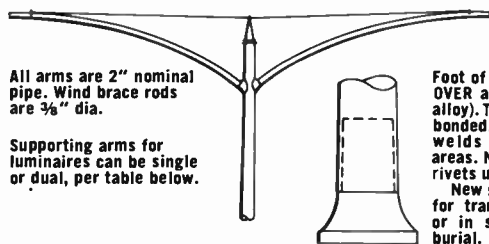
New tapered standards weigh nearly 20% less than spun poles, with greatest weight advantage gained by more efficient use of metal. New base design allows larger base diameter without increasing size of mounting-bolt circle. Usual moment of inertia is maintained, but with less weight per foot of pole.

TESTS SHOW STRENGTH — Comprehensive standard/base failure tests have demonstrated superior strength of Kaiser Aluminum's new tapered standards:

Static Load Test: Withstood 6 to 33% more load than spun type poles.

Cyclic Load Test: Without failing, bore more than 3 times the cycles that caused failure in spun poles.

Impact Test: Auto-bumper area dented 33 to 40% less, under constant ft.-lb. impacts, than spun poles.



All arms are 2" nominal pipe. Wind brace rods are 3/8" dia.

Supporting arms for luminaires can be single or dual, per table below.

Foot of new tapered standard fits OVER anchor base (cast of A356 alloy). The two are factory epoxy-bonded. No circumferential base welds to produce weakened areas. Nor are structural bolts or rivets used.

New standards also engineered for transformer base mounting, or in smaller sizes, for direct burial.

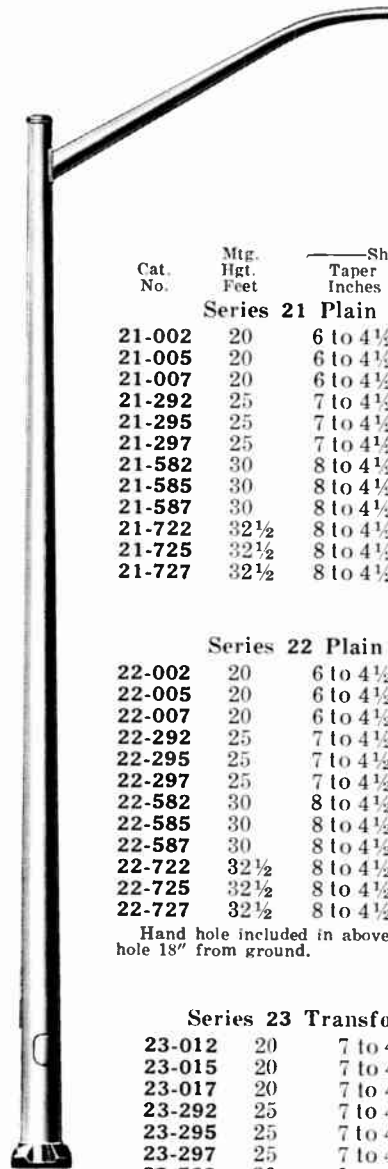
20 VARIATIONS — ONLY 4 BASIC STANDARDS

(Catalog numbers are shown bold face)

STANDARD	Type	Mounting Height, ft.	Pole Size, in.	Wall Thickness, in.	Number of Arms	ARM REACH FT.				
						4	6	8	10	12
1	AT-25	25	8	.135	1	83-40-4A1-04	83-40-4A1-06	83-40-4B1-08	83-40-4B1-10	83-40-4B1-12
					2	83-40-4C1-04	83-40-4C1-06			
2	AT-25	25	9	.135	2			83-40-4D2-08	83-40-4D2-10	83-40-4D2-12
3	AT-30	30	9	.135	1	83-40-6A2-04	83-40-6A2-06	83-40-6B2-08	83-40-6B2-10	83-40-6B2-12
					2	83-40-6C2-04	83-40-6C2-06			
4	AT-30	30	9	.188	2			83-40-6D3-08	83-40-6D3-10	83-40-6D3-12

Price on Application

HAPCO LIGHTING POLES
SERIES 20 POLES — TAPERED
ELLIPTICAL ARMS



Cat. No.	Mtg. Hgt. Feet	Shaft Size		Brkt. Lgth. Feet	Bolt Circle Diam. In.
		Taper Inches	Height Ft. In.		
Series 21 Plain Base (Single Arm)					
21-002	20	6 to 4 1/2	18 0	4	9 to 10
21-005	20	6 to 4 1/2	18 0	6	9 to 10
21-007	20	6 to 4 1/2	18 0	8	9 to 10
21-292	25	7 to 4 1/2	23 0	4	10 to 11
21-295	25	7 to 4 1/2	23 0	6	10 to 11
21-297	25	7 to 4 1/2	23 0	8	10 to 11
21-582	30	8 to 4 1/2	28 0	4	11 to 12
21-585	30	8 to 4 1/2	28 0	6	11 to 12
21-587	30	8 to 4 1/2	28 0	8	11 to 12
21-722	32 1/2	8 to 4 1/2	30 6	4	11 to 12
21-725	32 1/2	8 to 4 1/2	30 6	6	11 to 12
21-727	32 1/2	8 to 4 1/2	30 6	8	11 to 12

Series 22 Plain Base (Twin Arm)					
22-002	20	6 to 4 1/2	18 0	4	9 to 10
22-005	20	6 to 4 1/2	18 0	6	9 to 10
22-007	20	6 to 4 1/2	18 0	8	9 to 10
22-292	25	7 to 4 1/2	23 0	4	10 to 11
22-295	25	7 to 4 1/2	23 0	6	10 to 11
22-297	25	7 to 4 1/2	23 0	8	10 to 11
22-582	30	8 to 4 1/2	28 0	4	11 to 12
22-585	30	8 to 4 1/2	28 0	6	11 to 12
22-587	30	8 to 4 1/2	28 0	8	11 to 12
22-722	32 1/2	8 to 4 1/2	30 6	4	11 to 12
22-725	32 1/2	8 to 4 1/2	30 6	6	11 to 12
22-727	32 1/2	8 to 4 1/2	30 6	8	11 to 12

Hand hole included in above catalog numbers. Center of hand hole 18" from ground.

Series 23 Transformer Base (Single Arm)					
23-012	20	7 to 4 1/2	16 4	4	15
23-015	20	7 to 4 1/2	16 4	6	15
23-017	20	7 to 4 1/2	16 4	8	15
23-292	25	7 to 4 1/2	21 4	4	15
23-295	25	7 to 4 1/2	21 4	6	15
23-297	25	7 to 4 1/2	21 4	8	15
23-582	30	8 to 4 1/2	26 4	4	15
23-585	30	8 to 4 1/2	26 4	6	15
23-587	30	8 to 4 1/2	26 4	8	15
23-722	32 1/2	8 to 4 1/2	28 10	4	15
23-725	32 1/2	8 to 4 1/2	28 10	6	15
23-727	32 1/2	8 to 4 1/2	28 10	8	15

Series 24 Transformer Base (Twin Arm)					
24-012	20	7 to 4 1/2	16 4	4	15
24-015	20	7 to 4 1/2	16 4	6	15
24-017	20	7 to 4 1/2	16 4	8	15
24-292	25	7 to 4 1/2	21 4	4	15
24-295	25	7 to 4 1/2	21 4	6	15
24-297	25	7 to 4 1/2	21 4	8	15
24-582	30	8 to 4 1/2	26 4	4	15
24-585	30	8 to 4 1/2	26 4	6	15
24-587	30	8 to 4 1/2	26 4	8	15
24-722	32 1/2	8 to 4 1/2	28 10	4	15
24-725	32 1/2	8 to 4 1/2	28 10	6	15
24-727	32 1/2	8 to 4 1/2	28 10	8	15

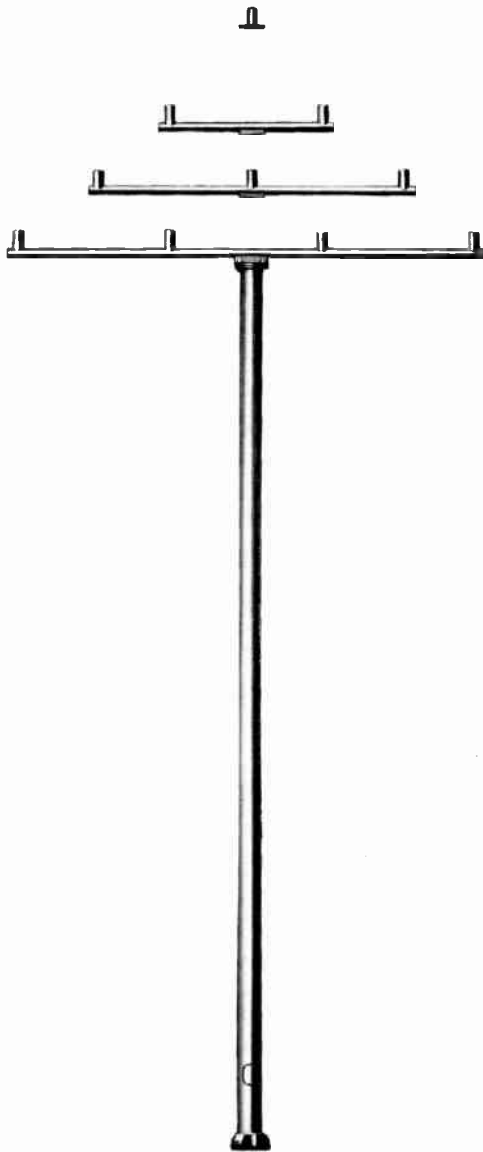
All brackets have 2" N.P.S. Slipfitters unless otherwise specified.

Wall Thickness: .188 inch in every shaft except where otherwise stated.

HAPCO LIGHTING POLES

SERIES 60 POLES — FOR FLOODLIGHTS

Series 61 Plain Base Poles



Cat. No.	Mtg. Hgt. Feet	Taper Inches	Shaft Size		Bolt Circle Diam. In.	Total Allowable Projected Area of Equipment (Square Feet)
			Ft.	In.		
61-001	20	6 to 4½	19	8	9 to 10	6.3
61-002	20	7 to 4½	19	8	10 to 11	9.2
61-003	20	8 to 4½	19	8	11 to 12	12.7
61-029	25	6 to 4½	24	8	9 to 10	4.4
61-030	25	7 to 4½	24	8	10 to 11	6.7
61-031	25	8 to 4½	24	8	11 to 12	9.4
61-032*	25	8 to 4½	24	8	11 to 12	11.2
61-033**	25	8 to 4½	24	8	11 to 12	12.9
61-058	30	7 to 4½	29	8	10 to 11	4.9
61-059	30	8 to 4½	29	8	11 to 12	7.2
61-060*	30	8 to 4½	29	8	11 to 12	8.7
61-061**	30	8 to 4½	29	8	11 to 12	10.1
61-067	30	10 to 6	29	8	14 to 15	12.3
61-068*	30	10 to 6	29	8	14 to 15	14.7
61-069**	30	10 to 6	29	8	14 to 15	17.0
61-086	35	8 to 4½	34	8	11 to 12	5.3
61-087*	35	8 to 4½	34	8	11 to 12	6.6
61-088**	35	8 to 4½	34	8	11 to 12	7.8
61-094	35	10 to 6	34	8	14 to 15	9.7
61-095*	35	10 to 6	34	8	14 to 15	11.8
61-096**	35	10 to 6	34	8	14 to 15	13.7
61-120	40	10 to 6	39	6	14 to 15	7.4
61-121*	40	10 to 6	39	6	14 to 15	9.2
61-122**	40	10 to 6	39	6	14 to 15	11.0

Hand hole included in above catalog numbers. Center of hand hole 18" from ground.

Series 62 Transformer Base Poles

Cat. No.	Mtg. Hgt. Feet	Taper Inches	Shaft Size		Bolt Circle Diam. In.	Total Allowable Projected Area of Equipment (Square Feet)
			Ft.	In.		
62-002	20	7 to 4½	18	0	15	10.3
62-003	20	8 to 4½	18	0	15	14.0
62-030	25	7 to 4½	23	0	15	7.4
62-031	25	8 to 4½	23	0	15	10.4
62-032*	25	8 to 4½	23	0	15	12.3
62-033**	25	8 to 4½	23	0	15	14.1
62-058	30	7 to 4½	28	0	15	5.3
62-059	30	8 to 4½	28	0	15	7.9
62-060*	30	8 to 4½	28	0	15	9.4
62-061**	30	8 to 4½	28	0	15	10.9
62-067	30	10 to 6	28	0	15	13.4
62-068*	30	10 to 6	28	0	15	15.9
62-069**	30	10 to 6	28	0	15	18.4
62-086	35	8 to 4½	33	0	15	5.9
62-087*	35	8 to 4½	33	0	15	7.2
62-088**	35	8 to 4½	33	0	15	8.5
62-094	35	10 to 6	33	0	15	10.6
62-095*	35	10 to 6	33	0	15	12.7
62-096**	35	10 to 6	33	0	15	14.8
62-120	40	10 to 6	38	0	15	8.1
62-121*	40	10 to 6	38	0	15	10.0
62-122**	40	10 to 6	38	0	15	11.8

Wall Thickness: .188 inch in every shaft except where otherwise stated.

*Wall Thickness: .219 inch.

**Wall Thickness: .250 inch.

Includes Projected Area of Lights and Brackets.

See mounting Arrangement Table and select proper catalog number for complete assembly.

FLOODLIGHT APPLICATION • PROPER SHAFT SELECTION

Method of Determining Proper Shaft for a Specific Application

Cat. No.	Tenon Pipe Size	No. Lights	Effective Projected Area (Square Ft.)
63-001	1½"	one	0.0
63-002	2"	one	0.0
63-003	1½"	two	0.7
63-004	2"	two	0.7
63-005	1½"	three	1.3
63-006	2"	three	1.3
63-007	1½"	four	1.9
63-008	2"	four	1.9

KNOWN:

1. Mounting height
2. Type and number of lights

PROCEDURE:

- Step 1. Add the Total Projected Area of Lights.
- Step 2. Select arm and add the Effective Projected Area of the required arm to the total obtained in Step 1.
- Step 3. From the "Total Allowable Projected Area of Equipment" column, select the proper shaft size to support the total value from Step 2.

Price on Application

EXAMPLE:

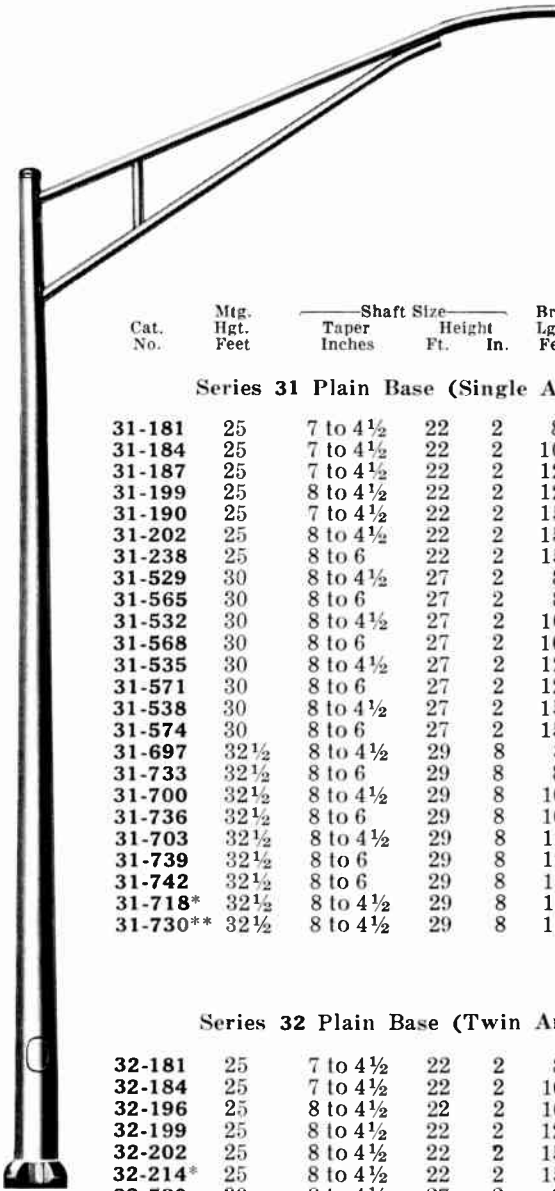
KNOWN:

1. 30' Mounting height — Plain base
2. 3 Lights — 2.3 square feet Projected Area each

PROCEDURE:

1. Total Projected Area of Lights — 6.9 square feet.
2. Arm required — 63-006 (3-tenon). Total Effective Projected Area — 6.9 plus 1.3 equals 8.2 sq. ft.
3. From catalog column, an 8"x4½"x .219" shaft is required to support 8.2 square feet Projected Area at 30 feet. (61-060)

HAPCO LIGHTING POLES
SERIES 30 POLES — TRUSS-STYLE ARMS



Cat. No.	Mtg. Hgt. Feet	Shaft Size		Brkt. Lgth. Feet	Bolt Circle Diam. In.
		Taper Inches	Height Ft. In.		
Series 31 Plain Base (Single Arm)					
31-181	25	7 to 4½	22 2	8	10 to 11
31-184	25	7 to 4½	22 2	10	10 to 11
31-187	25	7 to 4½	22 2	12	10 to 11
31-199	25	8 to 4½	22 2	12	11 to 12
31-190	25	7 to 4½	22 2	15	10 to 11
31-202	25	8 to 4½	22 2	15	11 to 12
31-238	25	8 to 6	22 2	15	11 to 12
31-529	30	8 to 4½	27 2	8	11 to 12
31-565	30	8 to 6	27 2	8	11 to 12
31-532	30	8 to 4½	27 2	10	11 to 12
31-568	30	8 to 6	27 2	10	11 to 12
31-535	30	8 to 4½	27 2	12	11 to 12
31-571	30	8 to 6	27 2	12	11 to 12
31-538	30	8 to 4½	27 2	15	11 to 12
31-574	30	8 to 6	27 2	15	11 to 12
31-697	32½	8 to 4½	29 8	8	11 to 12
31-733	32½	8 to 6	29 8	8	11 to 12
31-700	32½	8 to 4½	29 8	10	11 to 12
31-736	32½	8 to 6	29 8	10	11 to 12
31-703	32½	8 to 4½	29 8	12	11 to 12
31-739	32½	8 to 6	29 8	12	11 to 12
31-742	32½	8 to 6	29 8	15	11 to 12
31-718*	32½	8 to 4½	29 8	15	11 to 12
31-730**	32½	8 to 4½	29 8	15	11 to 12

Series 32 Plain Base (Twin Arm)					
32-181	25	7 to 4½	22 2	8	10 to 11
32-184	25	7 to 4½	22 2	10	10 to 11
32-196	25	8 to 4½	22 2	10	11 to 12
32-199	25	8 to 4½	22 2	12	11 to 12
32-202	25	8 to 4½	22 2	15	11 to 12
32-214*	25	8 to 4½	22 2	15	11 to 12
32-529	30	8 to 4½	27 2	8	11 to 12
32-532	30	8 to 4½	27 2	10	11 to 12
32-535	30	8 to 4½	27 2	12	11 to 12
32-547*	30	8 to 4½	27 2	12	11 to 12
32-562**	30	8 to 4½	27 2	15	11 to 12
32-697	32½	8 to 4½	29 8	8	11 to 12
32-709*	32½	8 to 4½	29 8	8	11 to 12
32-700	32½	8 to 4½	29 8	10	11 to 12
32-712*	32½	8 to 4½	29 8	10	11 to 12
32-715*	32½	8 to 4½	29 8	12	11 to 12
32-727**	32½	8 to 4½	29 8	12	11 to 12
32-802	32½	10 to 6	29 8	15	14 to 15

All brackets have 2" N.P.S. Slipfitters unless otherwise specified.
 Wall Thickness: .188 inch in every shaft except where otherwise stated.
 *Wall Thickness: .219 inch.
 **Wall Thickness: .250 inch.
 Hand hole included in above catalog numbers. Center of hand hole 18" from ground.

HAPCO LIGHTING POLES
SERIES 30 POLES — TRUSS-STYLE ARMS

Cat. No.	Mtg. Hgt. Feet	Shaft Size		Brkt. Lgth. Feet	Bolt Circle Diam. In.
		Taper Inches	Height Ft. In.		
Series 33 Transformer Base (Single Arm)					
33-181	25	7 to 4½	20 6	8	15
33-184	25	7 to 4½	20 6	10	15
33-187	25	7 to 4½	20 6	12	15
33-199	25	8 to 4½	20 6	12	15
33-190	25	7 to 4½	20 6	15	15
33-202	25	8 to 4½	20 6	15	15
33-238	25	8 to 6	20 6	15	15
33-529	30	8 to 4½	25 6	8	15
33-532	30	8 to 4½	25 6	10	15
33-568	30	8 to 6	25 6	10	15
33-535	30	8 to 4½	25 6	12	15
33-571	30	8 to 6	25 6	12	15
33-538	30	8 to 4½	25 6	15	15
33-574	30	8 to 6	25 6	15	15
33-697	32½	8 to 4½	28 0	8	15
33-733	32½	8 to 6	28 0	8	15
33-700	32½	8 to 4½	28 0	10	15
33-736	32½	8 to 6	28 0	10	15
33-703	32½	8 to 4½	28 0	12	15
33-739	32½	8 to 6	28 0	12	15
33-742	32½	8 to 6	28 0	15	15
33-718*	32½	8 to 4½	28 0	15	15
33-730**	32½	8 to 4½	28 0	15	15
Series 34 Transformer Base (Twin Arm)					
34-181	25	7 to 4½	20 6	8	15
34-184	25	7 to 4½	20 6	10	15
34-199	25	8 to 4½	20 6	12	15
34-202	25	8 to 4½	20 6	15	15
34-214*	25	8 to 4½	20 6	15	15
34-529	30	8 to 4½	25 6	8	15
34-532	30	8 to 4½	25 6	10	15
34-535	30	8 to 4½	25 6	12	15
34-547*	30	8 to 4½	25 6	12	15
34-562**	30	8 to 4½	25 6	15	15
34-697	32½	8 to 4½	28 0	8	15
34-700	32½	8 to 4½	28 0	10	15
34-712*	32½	8 to 4½	28 0	10	15
34-715*	32½	8 to 4½	28 0	12	15
34-727**	32½	8 to 4½	28 0	12	15
34-802	32½	10 to 6	28 0	15	15

RIPLEY SUNSWITCH
TUBELESS STREET LIGHT CONTROL



With "Prismatic-Eye" Light Adjustment. Conforms to EEL-NEMA. Built-in lighting gap arrestor. Fail-safe operation. Rugged - weatherproof - plastic housing, will not discolor, crack or craze. Delayed circuit response. Hermetically sealed cadmium sulphide cell controlling time-tested relay. Exclusive phenolic base design isolates 3-prong plug against flash-over.

Supply Voltage: 105-135 volts, 50/60 cycles. Load Rating: 1000 watts. Inrush Current Rating: 100 amperes.

Std. Factory Setting: Turn-on 1:25±.5 foot candles.

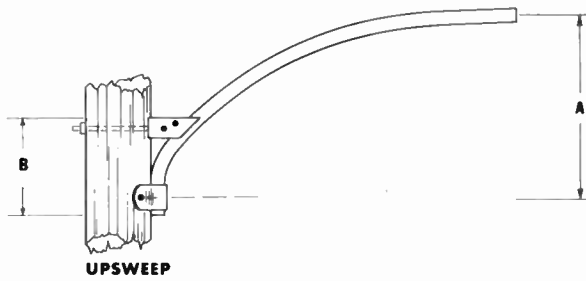
Power Consumption: Average less than 0.5 watts.

Cat. No.	Description	Each
5946	Sun Switch 1800 V.A. Reactive.....	\$.....
5920-A	Universal Mounting Bracket.....	.....

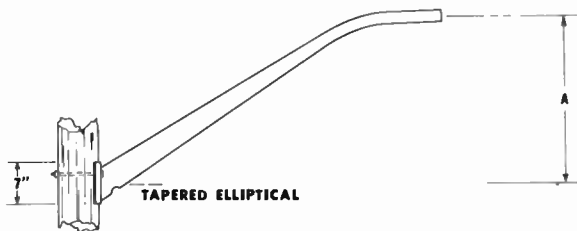
Price on Application

HAPCO ALUMINUM BRACKETS

FOR WOOD POLES



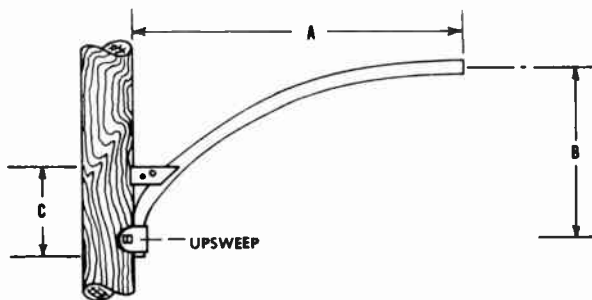
Cat. No.	Length	Pipe Size	Rise "A"	Wt. Lbs.	Pole Space "B"
81-001	30"	1 1/4"	17"	3	8 1/2"
81-002	4'	1 1/4"	23"	4	8 1/2"
81-003	4'	1 1/4"	22"	6	11 5/8"
81-004	6'	1 1/4"	28"	7	11 5/8"
81-005	4'	2"	22"	8	11 7/8"
81-006	6'	2"	28"	11	11 7/8"
81-007	8'	2"	30"	13	11 7/8"



Cat. No.	Length	Member Size	Rise "A"	Wt. Lbs.
84-001	4'	3"	30"	8
84-003	6'	3"	30"	11
84-004	6'	3 1/2"	30"	12
84-006	8'	3 1/2"	30"	14
84-007	8'	4"	30"	15
84-009	10'	4"	30"	19
84-010	10'	4 1/2"	30"	21

HAPCO GALVANIZED STEEL BRACKETS

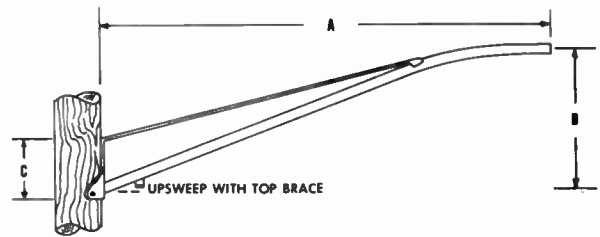
FOR WOOD POLES



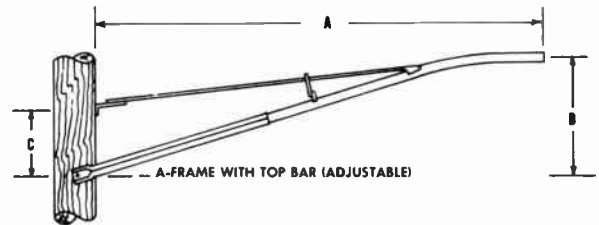
Cat. No.	Pipe Size	Length "A"	Rise "B"	Pole Space "C"	Wt. Lbs.
91-001	1 1/4"	2.5'	17"	10 7/8"	10
91-002	1 1/4"	4'	21"	10 7/8"	13
91-003	1 1/4"	6'	27"	10 7/8"	17
91-004	2"	4'	21 3/4"	12 1/8"	23
91-005	2"	6'	27 3/4"	12 1/8"	34
91-006	2"	8'	30 3/8"	12 1/8"	34

HAPCO GALVANIZED STEEL BRACKETS

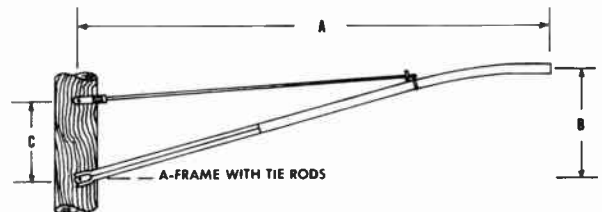
FOR WOOD POLES



Cat. No.	Pipe Size	Length "A"	Rise "B"	Pole Space "C"	Wt. Lbs.
94-001	1 1/4"	6'	30 5/8"	11"	24
94-002	1 1/4"	8'	39 5/8"	11"	30
94-003	1 1/4"	10'	45 1/8"	15"	38
94-004	2"	6'	30 5/8"	11"	42
94-005	2"	8'	39 5/8"	11"	48
94-006	2"	10'	45 1/8"	15"	56



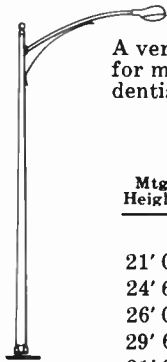
Cat. No.	Pipe Size	Length "A"	Rise "B"	Pole Space "C"	Wt. Lbs.
95-001	1 1/4"	10'	48"	13"	47
95-002	1 1/4"	12'	48"	15"	55
95-003	1 1/4"	14'	48"	17"	66
95-004	1 1/4"	16'	56"	19"	76
95-005	1 1/4"	18'	61"	21"	85
95-006	1 1/4"	20'	67 1/2"	23"	106
95-007	2"	10'	48"	13"	69
95-008	2"	12'	48"	15"	83
95-009	2"	14'	48"	17"	97
95-010	2"	16'	56"	19"	110
95-011	2"	18'	61"	21"	124
95-012	2"	20'	67 1/2"	23"	138



Cat. No.	Pipe Size	Length "A"	Rise "B"	Pole Space "C"	Wt. Lbs.
96-001	1 1/4"	8'	37"	32"	38
96-002	1 1/4"	10'	37"	32"	46
96-003	1 1/4"	12'	37"	32"	55
96-004	1 1/4"	14'	37"	32"	63
96-005	1 1/4"	16'	37"	32"	71
96-006	1 1/4"	18'	37"	32"	80
96-007	1 1/4"	20'	37"	32"	91

Price on Application

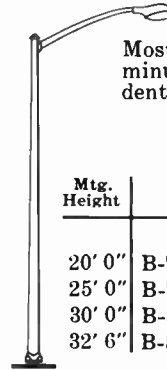
UNION METAL MONOTUBE POLES



A versatile steel pole traditionally successful for many applications such as roadway, residential and offstreet installations.

***STEEL DESIGN 400A**

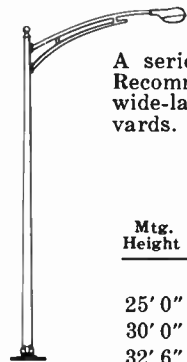
Mtg. Height	Number and Bracket Spread		
	4' 0"	6' 0"	8' 0"
21' 0"	E-200-A2	E-200-B2	E-200-C2
24' 6"	F-236-A2	F-236-B2	F-236-C2
26' 0"	F-250-A2	F-250-B2	F-250-C2
29' 6"	H-286-A2	H-286-B2	H-286-C2
31' 0"	H-300-A2	H-300-B2	H-300-C2



Most popular type of maintenance-free aluminum pole used on cities main arteries, residential streets and shopping centers.

***ALUMINUM DESIGN 592C**

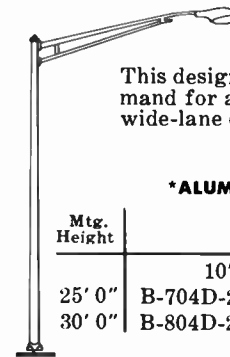
Mtg. Height	Number and Bracket Spread		
	4' 0"	6' 0"	8' 0"
20' 0"	B-704D-176-A2	B-704D-176-B2	B-704D-176-C2
25' 0"	B-704D-226-A2	B-704D-226-B2	B-704D-226-C2
30' 0"	B-804D-276-A2	B-804D-276-B2	B-804D-276-C2
32' 6"	B-804D-300-A2	B-804D-300-B2	— —



A series of poles with longer mast arms. Recommended for safer driving visibility on wide-lane highways, expressways and boulevards.

***STEEL DESIGN 440A**

Mtg. Height	Number and Bracket Spread		
	10' 0"	12' 0"	15' 0"
25' 0"	F-220-D2	G-220-E2	H-220-F2
30' 0"	H-270-D2	H-270-E2	J-270-F2
32' 6"	H-296-D2	H-296-E2	K-296-F2



This design pole is engineered to meet the demand for a service-free standard to light the wide-lane expressways, freeways and plazas.

***ALUMINUM DESIGN 596C**

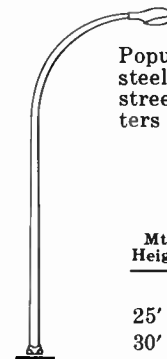
Mtg. Height	Number and Bracket Spread		
	10' 0"	12' 0"	15' 0"
25' 0"	B-704D-226-D2	B-704D-226-E2	B-704D-226-F2
30' 0"	B-804D-276-D2	B-804D-276-E2	B-804D-276-F2



Economically designed pole especially recommended for shopping centers, parking lots and has been successfully used on downtown business streets.

***STEEL DESIGN 1400A**

Mtg. Height	Number and Bracket Spread	
	6' 0"	8' 0"
25' 0"	F-220-B2	F-220-C2
30' 0"	G-269-B2	G-269-C2
32' 6"	H-296-B2	H-296-C2

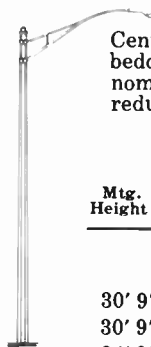


Popular, modern style davits available in steel and aluminum for any type lighting—street, highway, expressway, shopping centers and parking lots.

***STEEL DESIGN 900**

***ALUMINUM DESIGN 920**

Mtg. Height	Number and Davit Span	
	6' 0"	6' 0"
25' 0"	900-Y74	920-Y58
30' 0"	900-Y76	920-Y60



Centrifugally cast, prestressed concrete embedded type pole is maintenance free, economical and has simplified installation that reduces cost of erection.

***CONCRETE DESIGN 810V**

Mtg. Height	Base Type	Number and Bracket Spread		
		10' 0"	12' 0"	15' 0"
30' 9"	Butt	B27-V10	B27-V12	B27-V15
30' 9"	Bolt	P27-V10	P27-V12	P27-V15
34' 9"	Butt	B31-V10	B31-V12	B31-V15
34' 9"	Bolt	P31-V10	P31-V12	P31-V15



Attractive terrazzo finish, anchor base pole is service free and valued in areas that have the problem of salt water corrosion or industrial oxidation.

***CONCRETE DESIGN 5D**

Mtg. Height	Number and Bracket Spread		
	4' 0"	6' 0"	8' 0"
22' 9"	52-D4	52-D6	52-D8
24' 3"	53-D4	53-D6	53-D8
25' 9"	54-D4	54-D6	54-D8
28' 3"	55-D4	55-D6	55-D8
30' 9"	56-D4	56-D6	56-D8

"Consult your nearby Graybar office for prices."

*For limitation of luminaire weight and size for each design pole consult Graybar salesman or Union Metal Mfg. Co. Catalog #100.

**UNION METAL MONOTUBE POLES
for POST TOP LUMINAIRES**

Monotube pedestal poles have become increasingly popular for landscape lighting where low mounting heights are acceptable. These attractive, low cost, tapered poles lend beauty to campus surroundings, parks, plazas and residential areas. Available in strong steel and maintenance-free aluminum and concrete designs.



*STEEL		*ALUMINUM	
Pole Ht. Above Ground	Design Number	Pole Ht. Above Ground	Design Number
10' 0"	60008-1S	10' 0"	60008-1A
12' 0"	60008-2S	12' 0"	60008-2A
14' 0"	60008-3S	14' 0"	60008-3A
16' 0"	60008-4S	16' 0"	60008-4A
18' 0"	60008-5S	18' 0"	60008-5A
20' 0"	60008-6S	20' 0"	60008-6A

Attractive terrazzo finish, centrifugally cast, prestressed concrete poles with low cost installation are valued for maintenance-free service.

*CONCRETE DESIGN 901	
Mounting Height	Catalog Number
8'	B 8-3
10'	B10-3
12'	B12-3
14'	B14-3
19'	B19-3

Notes on Union Metal Monotube Poles

- *For limitation of luminaire weight and size for each design pole consult Graybar salesmen or Union Metal Mfg. Co. Catalog No. 100.
- Most popular pole types are shown. Other types and sizes are available.
- For mast arm poles, twin-bracket designs are available. Specify, if required.
- Specify handholes, if required.
- Brackets are arranged for 2" slipfitter type luminaire, unless otherwise specified.
- Post top poles are arranged to receive a 3" slipfit luminaire.
- Anchor base poles include anchor rods. Transformer bases for same designs are available.
- Steel poles have a shop coat of rust-resistant paint.
- Aluminum poles are polish-finished and tire-wrapped with a heavy, water-resistant paper for protection during shipment and erection.
- A black and gray terrazzo finish is standard on concrete poles.
- When ordering, specify both Design and Catalog Number.

UNION METAL MONOTUBE STEEL AREA LIGHTING POLES

These floodlighting poles are specifically designed to carry today's modern floodlights. Proper lighting requires proper choice of pole and mounting arrangements. Union Metal's careful engineering, design experience, and fabricating craftsmanship make these poles safe, economical and adaptable for supporting floodlights for any shopping center, parking lot, sportsfield, tennis court or airport.

Design No.	Nom. Pole Hgt.	Allow. Proj. Area Sq. Ft.
562-Y21	20 Ft.	21.5
562-Y22	25 Ft.	19.2
562-Y23	30 Ft.	14.4
562-Y24	34 Ft.	13.9
562-Y25	39 Ft.	14.4

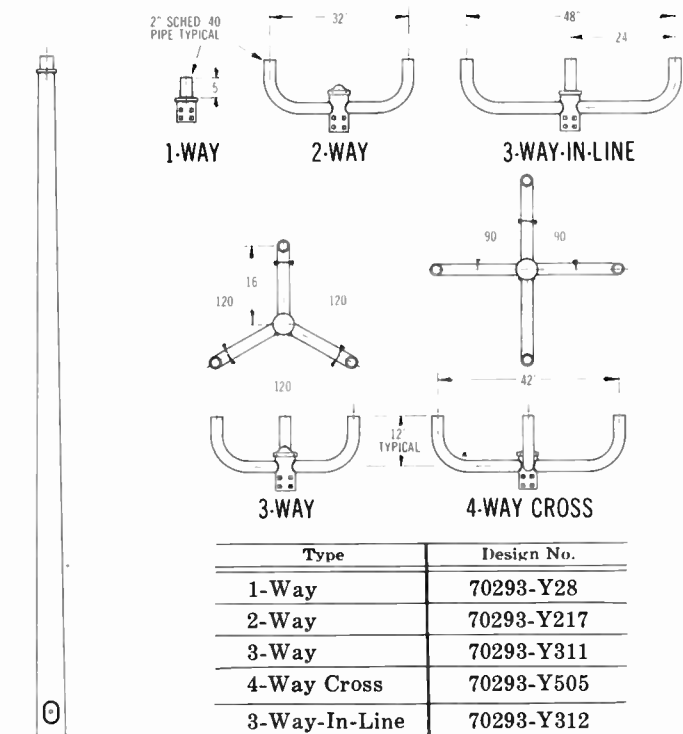
Design No.	Nom. Pole Hgt.	Allow. Proj. Area Sq. Ft.
562-Y26	40 Ft.	13.1
562-Y27	45 Ft.	15.9
562-Y28	50 Ft.	15.7
562-Y29	55 Ft.	15.6
562-Y30	60 Ft.	15.5

Designs 562-Y26 to Y30 are of two-piece construction.

MAX. WGT. PER LIGHT NOT TO EXCEED 100 LBS.

"Consult your nearby Graybar office for prices."

Order Floodlighting Mounting Arrangement as separate item



Type	Design No.
1-Way	70293-Y28
2-Way	70293-Y217
3-Way	70293-Y311
4-Way Cross	70293-Y505
3-Way-In-Line	70293-Y312

Other mounting arrangements for luminaires are available

UNION METAL MONOTUBE STEEL FLOODLIGHTING POLES

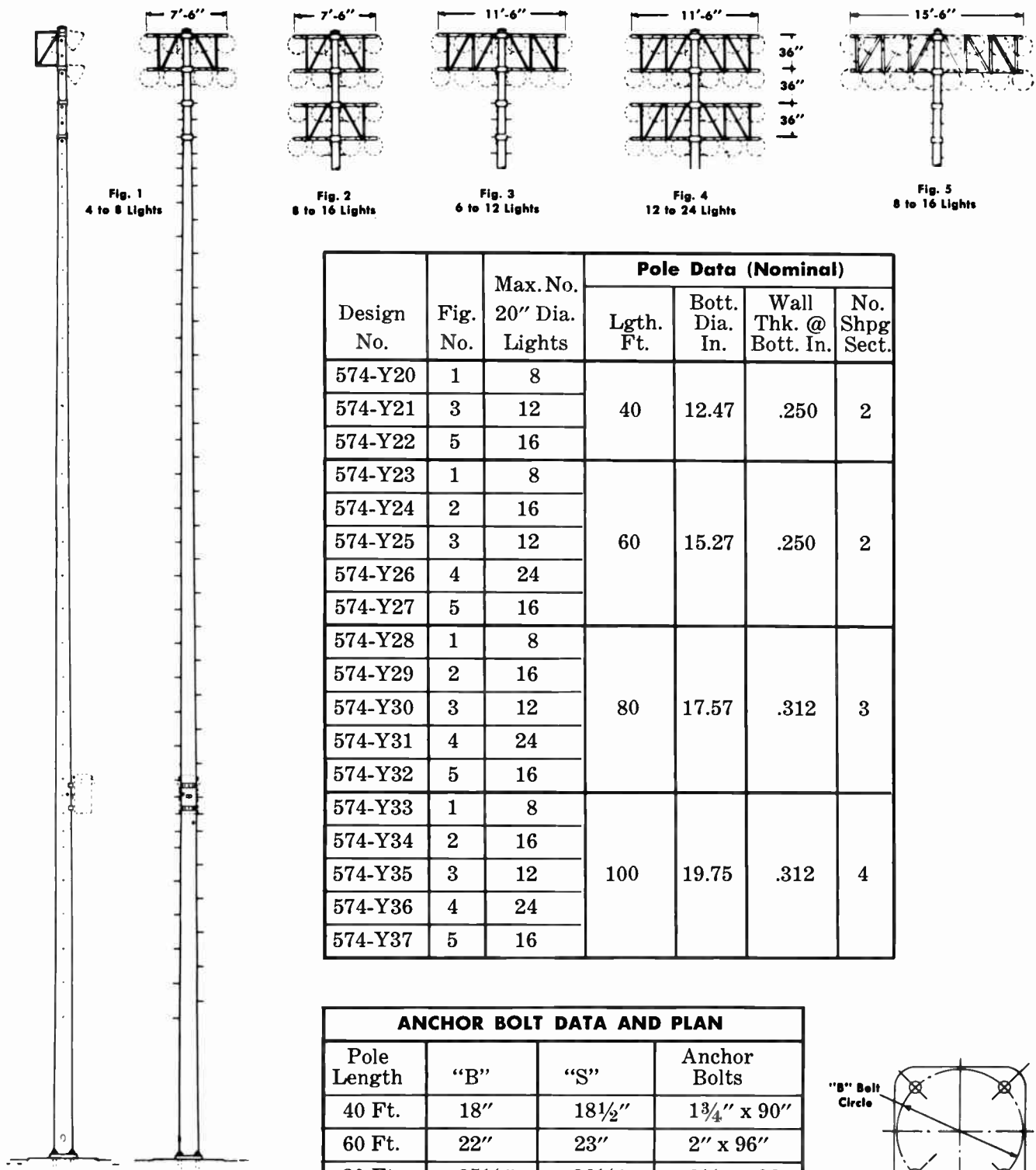


Fig. 1
4 to 8 Lights

Fig. 2
8 to 16 Lights

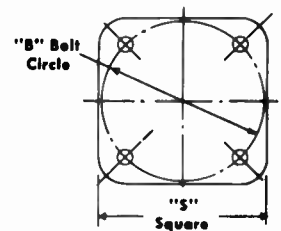
Fig. 3
6 to 12 Lights

Fig. 4
12 to 24 Lights

Fig. 5
8 to 16 Lights

Design No.	Fig. No.	Max. No. 20" Dia. Lights	Pole Data (Nominal)			
			Lgth. Ft.	Bott. Dia. In.	Wall Thk. @ Bott. In.	No. Shpg. Sect.
574-Y20	1	8	40	12.47	.250	2
574-Y21	3	12				
574-Y22	5	16				
574-Y23	1	8	60	15.27	.250	2
574-Y24	2	16				
574-Y25	3	12				
574-Y26	4	24				
574-Y27	5	16				
574-Y28	1	8	80	17.57	.312	3
574-Y29	2	16				
574-Y30	3	12				
574-Y31	4	24				
574-Y32	5	16				
574-Y33	1	8	100	19.75	.312	4
574-Y34	2	16				
574-Y35	3	12				
574-Y36	4	24				
574-Y37	5	16				

ANCHOR BOLT DATA AND PLAN			
Pole Length	"B"	"S"	Anchor Bolts
40 Ft.	18"	18½"	1¾" x 90"
60 Ft.	22"	23"	2" x 96"
80 Ft.	25½"	26½"	2¼" x 96"
100 Ft.	28½"	29½"	2¼" x 96"



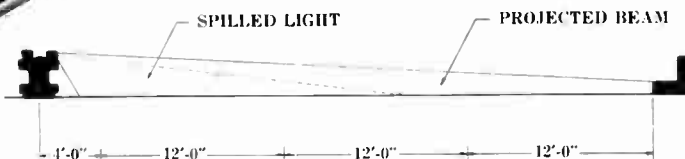
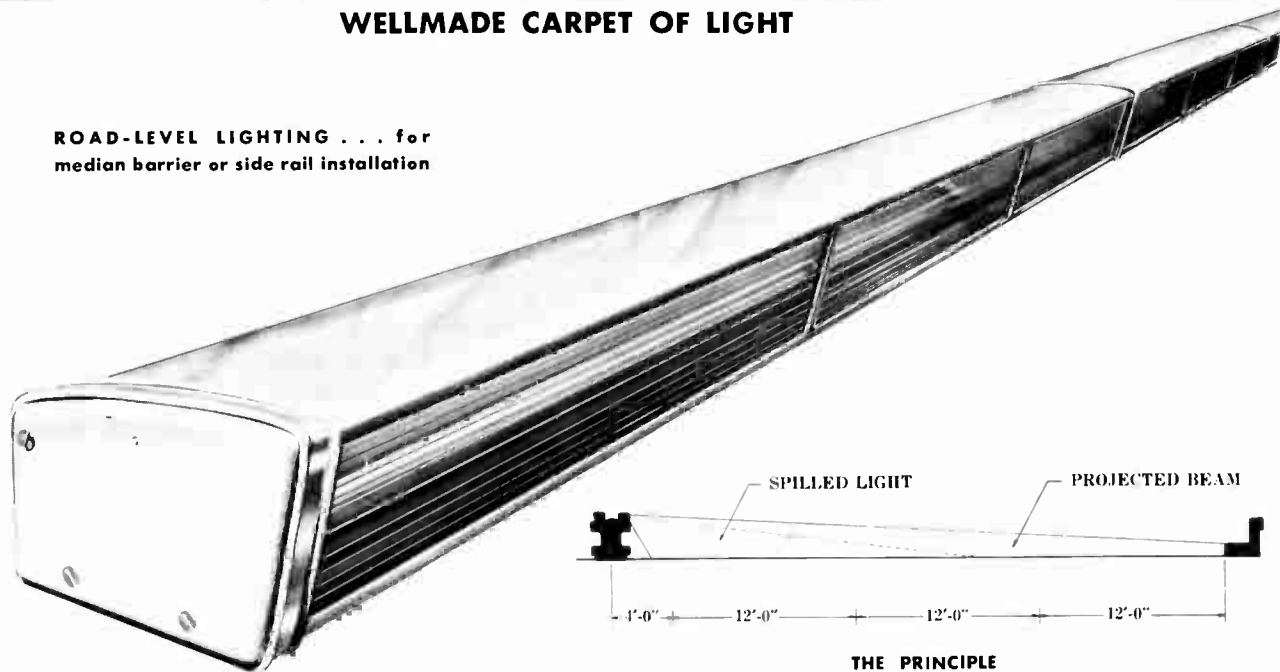
Price on Application

Above data is for general guidance only. Template prints giving complete information for setting anchor bolts, are furnished with each order.

For other floodlighting poles, design criteria and additional data consult Union Metal Catalog 100, Section C

WELLMADE CARPET OF LIGHT

ROAD-LEVEL LIGHTING . . . for median barrier or side rail installation

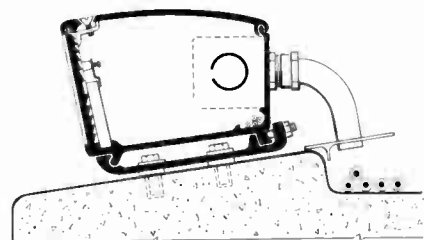


THE PRINCIPLE

This luminaire operates on the principle of projecting a beam from an aperture lamp through a Fresnel focusing lens on to the outer reaches of the highway. The closer area is lighted by incidental light contributed by other surfaces of the lamp which are at points other than the focal point, and is spilled from the lens on to the roadway. The combination of these two provides a blanket of light of unusual uniformity over the width of the roadway.

**QUALITY ENGINEERING
PRECISION CRAFTSMANSHIP**

Road-Level Luminaire...features rugged construction...precise beam control...ten foot two-piece housing of extruded aluminum alloy. The computer designed lens of virgin acrylic is manufactured to precise specifications by Holophane.



WELLMADE Road-Level Lighting gives driver comfort, even illumination, clear visibility and sharp definition of lane markings, curbs and rails. Eliminates glare, pools of light and unsightly poles on elevated structures.



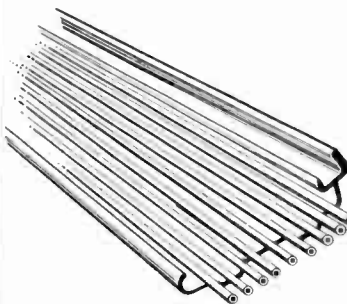
WELLMADE Master Mount* for easy installation of fixtures... facilitates interchanging fixtures on the job for maintenance or repair. *Patent applied for.

The Wellmade Road-Level Luminaire is designed to operate at either 800 MA or 200 MA as desired. One ballast operates a pair of ten foot luminaires mounted end to end. The power requirements for each of the operating levels is listed below:

LIGHTING LEVEL	FIXTURE LENGTH	BALLAST INPUT	WATTS PER LINEAR FOOT
800 MA	10' tandem (20')	254 W	12.7 W
200 MA	10' tandem (20')	97 W	4.9 W

PRICE PER PAIR (20 feet)	
WITH MASTER MOUNT \$436.00	WITH RACEWAY \$484.00

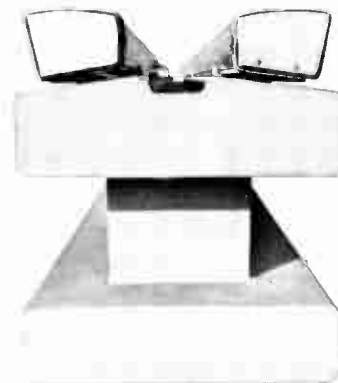
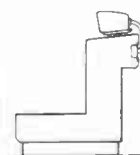
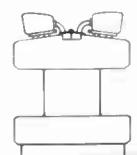
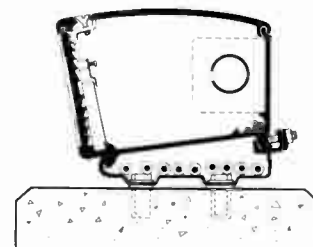
FIXTURES COMPLETE WITH LAMPS INSTALLED



OPTIONAL WIREWAY

Integral bottom Wireway for applications where service is not otherwise provided. Aluminum extruded, combination Wireway* and Master Mount provides adequate space.

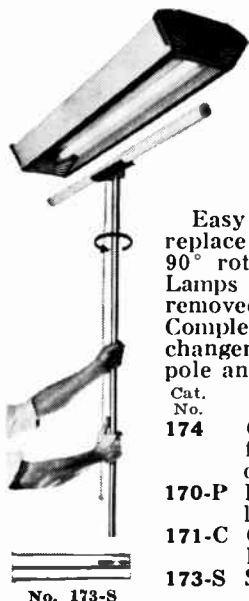
*Patent applied for.



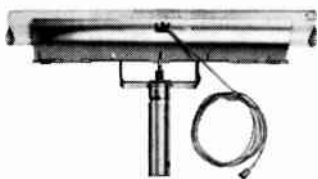
VERSATILE INSTALLATION FEATURES

Versatility of mounting hardware provides for application on new or existing roadways and bridges.

McGILL FLUORESCENT LAMP CHANGERS



No. 173-S



No. 171-C

Easy to handle and operate to replace fluorescent lamps requiring 90° rotation or endwise movement. Lamps up to 1½" diameter can be removed with a twist of the wrist. Complete unit No. 174 consists of changer head, four-section, 8-foot pole and starter changer.

Cat. No.	Description	Each
174	Complete changer unit for lamps up to 1½" diam.	\$22.02
170-P	Pole section only, 24" long	2.47
171-C	Changer head only for lamps up to 1½" diam.	13.35
173-S	Starter changer only..	.73

McGILL ADAPTABLE LAMP CHANGERS

With Rubber Covered Fingers and Coil Spring



For more convenient replacement of light bulbs in any location. Coil spring around ends of rubber covered fingers grip bulb firmly. Nos. 150-CA and 151-CA have angle adjustment on heads for bulbs in horizontal position. Other models are furnished without angle adjustment.

Cat. No.	Lamp Size	Wt. Oz. Each	Each
With Angle Adjustment			
150-CA	15- 25-w	8	\$5.36
151-CA	100- 200-w	9	5.36
No Angle Adjustment			
152-C	300- 500-w	10	5.36
153-C	750-1500-w	10	5.78
154-C	400-w Merc.	8	5.78
155-C	R-52, R-57, RB-52	....	6.63
156-C	PAR-38, R-30, R-40	12	5.36
158-C	BT-37, E-37, BT-46, BT-56, Merc. 400 and 700 Watt	14	6.63
159-C	R-60	14	6.63
161-C	175 BT-28 Merc.	7	5.36

Poles

Cat. No.	Description	Wt. Oz. Each	Each
160-P	Steel Interchangeable, 5 ft. sections	14	\$3.74

Note — Not for Fluorescent Changers.

LAMP BASE REMOVER



Provides a fully insulated, safe and sure way to remove bases of broken lamp bulbs without possibility of

injury to hands from shock or broken glass. Fits lamp changer pole and will handle standard and mogul lamp base.

Cat. No.	Description	Wt. Oz. Each	Each
200	Lamp Base Remover.....	4	\$1.49

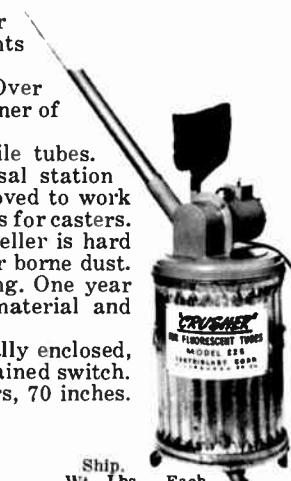
CENTRIBLAST FLUORESCENT TUBE CRUSHERS

Dispose of burnt out tubes instantly. Simply feed tubes into unit. High speed impeller breaks them into small fragments in a fraction of a second.

Save space and hauling costs. Over 350 4-ft long tubes fit into container of less than 4 cu. ft. capacity.

Safe — less handling of fragile tubes. May be located at waste disposal station or equipped with casters and moved to work location. Receptacles have sockets for casters. Heavy duty construction. Impeller is hard faced for wear resistance. No air borne dust. Vertical filter bag is self-cleaning. One year guarantee against defects in material and workmanship.

Motor is 1/3 h.p., 110-volt, totally enclosed, single phase A.C., with self-contained switch. Height, 67½ inches; with casters, 70 inches. Receptacle diameter, 19 inches.



Cat. No.	Description	Shp. Wt., Lbs.	Each
G-150	For 1½" Dia. Tubes	95	\$229.50
G-225	For 2¼" & 1½" Dia. Tubes	102	249.50
G-100	Set of 4 Casters.....	10	8.00

WASH-A-MATIC CLEANER/DESTATICISER



For cleaning lighting diffusers and reflectors. Automatically washes, scrubs, rinses, destaticises and sheet dries 1500 lighting diffusers and reflectors in the time normally required to clean barely 100.

Quiet, self-contained and portable for on-the-spot use. Models available for cleaning louvers and diffusers of all sizes plus a special model for painted and porcelain enamel industrial reflectors. All hoods are interchangeable with one tank.

Cat. No.	Description	Each*
Wash-A-Matic Units		
WAM-18	Especially designed to wash industrial reflectors, RLM type, porcelain enamel and painted, up to 8" thick.....	\$2025.00
WAM-24	For diffusers up to 24" wide, not more than 5½" deep. Length not important.....	2025.00
WAM-36	For diffusers up to 36" wide, not more than 5½" deep. Length not important.....	2025.00
WAM-48	For 4' x 4' diffusers not more than 5½" deep.....	2170.00

*Rollaway stacking and drying trays not included in price.

Rollaway Stacking and Drying Trays		
RST-72	For fixtures up to 4'.....	\$ 86.95
RST-96	For fixtures up to 8'.....	137.95

Cleaning and Rinsing Supplies		
Description	Each	
Standard Deterg-A-Matic, 30-lb. drum.....	\$22.50	
Industrial Deterg-A-Matic, 30-lb. drum.....	22.50	
Standard Rinse-A-Matic, 8 oz. bottle.....	2.40	
Industrial Rinse-A-Matic, 8 oz. bottle.....	2.40	

GENERAL ELECTRIC BALLASTS FOR FLUORESCENT LAMPS

MOST POPULAR STANDARD BALLASTS (60-CYCLE)

General Electric Bonus Line ballasts are designed to prevent leaking, smoking — any of the unpleasant conditions that occasionally occur at ballast end of life. The need for individual ballast fusing is eliminated.



Built into each of these new Bonus Line ballasts is an integrated Thermal Protection System that takes the ballast off the line — permanently — whenever the extreme temperatures which sometimes characterize ballast end of life are detected. General Electric engineers have been careful, however, to make sure that every hour of life has been delivered by each Bonus Line ballast before the Protection System activates. The ballast is de-energized only when failure is inevitable and already in progress.

Additionally, a new power capacitor in Bonus Line ballasts offers design features that increase the life of the capacitor — contributing to *substantially longer average life* for the ballast.

Lamp Description		Input Circuit Voltage	Bonus Line®						STANDARD					
			Catalog Number	List Price, Each	Data Table No. (GEC-983)	CBM/ETL Certified	No. of Indiv. Carton Ballasts Per Std. Pkg.	Wt. Per Std. Pkg., Lb.	Catalog Number	List Price, Each	Data Table No. (GEC-983)	CBM/ETL Certified	No. of Indiv. Carton Ballasts Per Std. Pkg.	Wt. Per Std. Pkg., Lb.
Type	Amperes													
RAPID START														
(1) F30T12/RS or (1) F40T12/RS	0.430	120	7G1060	\$5.60	4	Yes	20	75	6G1060	\$5.35	4	Yes	20	75
(1) F40T12/RS	.430	120	7G1075	2.85	3	No	20	40	6G1075	2.85	3	No	20	40
(2) F40T12/RS	.430	120	7G1020A	5.60	4	Yes	20	77	6G1020A	5.35	4	Yes	20	77
(2) F40T12/RS	.430	277	7G1030A	5.78	4	Yes	20	76	6G1030A	5.53	4	Yes	20	76
(2) F40T12/RS	.430	118	89G825	5.15	4, 20	No	20	74	89G825	5.15	4, 20	No	20	74
(2) F72T12/HO or (2) F96T12/HO	.800	120	7G1141	17.10	6	Yes	6	61	6G1141	16.85	6	Yes	6	61
	.800	277	7G1151	17.31	6	Yes	6	60	6G1151	17.06	6	Yes	6	60
(2) F72PG17	1.5	120	7G1201A	31.19	7	Yes	4	56	6G1201A	30.94	7	Yes	4	56
(2) F96PG17	1.5	277	7G1211A	31.35	7	Yes	4	59	6G1211A	31.10	7	Yes	4	59
INSTANT START														
(2) F48T12	0.425	118	7G1628	\$12.43	10	Yes	6	57	89G628	\$12.18	10	Yes	6	57
(2) F48T12	.425	120	7G1600	9.43	10	Yes	12	75	89G600	9.18	10	Yes	12	75
(1) F72T12 or (1) F96T12	.425	120	7G1762	9.20	10	Yes	6	48	89G762	8.95	10	Yes	6	48
(2) F72T12 or (2) 96T12	.425	118	7G1490	16.65	10	Yes	6	82	89G490	16.40	10	Yes	6	82
(2) F72T12 or (2) F96T12	.425	120	7G1011	9.20	10	Yes	6	48.5	6G1011	8.95	10	Yes	6	48.5
(2) F72T12 or (2) F86T12	.425	120							6G1851	7.06	10, 20	No	12	75
(2) F96T8	.200	118							6G3594	19.40	10	No	6	78
PREHEAT (SWITCH) START														
(1) F30T8 or (1) F40T12	0.430	118							6G3706	\$1.95	15	No	20	38
(1) F40T12	.430	118							89G711	6.35	15	No	20	76
(2) F40T12	.430	118	7G1000	\$7.44	16	Yes	10	43	6G1000	7.19	16	Yes	20	84
(2) F40T12	.430	118							89G800	4.65	20	No	20	80
(2) F40T12	.430	118							89G776	14.06	16	No	6	54
(2) F90T17	1.550	118	7G1562	19.93	E	Yes	4	65.5	89G562	19.68	16	Yes	4	65.5
TRIGGER START														
(2) F15T8 or (2) F15T12 or (2) F20T12	0.300 } .330 } .380 }	120							6G3512	\$4.74	13	No	10	33

NOTE: For dimensions, see Bulletin GEC-983.

Prices subject to change without notice.

Full Package Purchases Subject to Current Discount

GENERAL ELECTRIC BALLASTS FOR FLUORESCENT LAMPS

COMPLETE LINE OF 60-CYCLE BALLASTS

Catalog No.	Lamp and Power Source (All 60-cycle)	List Price, Each	Catalog No.	Lamp and Power Source (All 60-cycle)	List Price, Each
6G1000	(2) F40T12, 118 v	\$7.19	6G3688	(1) F30T12 or (1) F40T12, 120 v	\$10.27
6G1011	(2) F72T12 or (2) F96T12, 120 v	8.95	6G3689	(1) F30T12 or (1) F40T12, 277 v	10.59
6G1015	(2) F72T12 or (2) F96T12, 277 v	9.13	6G3699	(2) F48G17, 120 v	21.92
6G1020A	(2) F40T12/RS, 120 v	5.35	6G3700	(2) F48PG17, 277 v	22.26
6G1021	(2) F40T12/RS, 120 v	5.60	6G3701	(1) F72T12/HO, or (1) F96T12/HO, 120 v	15.92
6G1030A	(2) F40T12/RS, 277 v	5.53	6G3702	(1) F72T12/HO, or (1) F96T12/HO, 277 v	16.10
6G1031	(2) F40T12/RS, 277 v	5.78	6G3703	(1) F40T12/RS 260 v	5.63
6G1036	(2) F40T12/RS, 265 v	6.47	6G3706	(1) F30T8 or (1) F40T12, 118 v	1.95
6G1041	(1) F4T5, 120 v	1.06	6G3708	(1) F24T12/HO, (1) 36T12/HO, (1) F48T12/HO, 120 v	15.52
6G1042	(1) F25T12, 118 v	1.49	6G3710	(1) F20T12, 120 v	9.10
6G1050	(1) F14T12; (1) F15T8; (1) F15T12; or (1) F20T12, 118 v	.76	6G3711	(1) F20T12, 277 v	9.45
6G1052	(1) F25T12, 118v	1.49	6G3714	(3) F96PG17, VHO, SHO, 120 v	42.74
6G1060	(1) F30T12/RS or (1) F40T12/RS, 120 v	5.35	6G3715	(4) F72PG17, VHO, SHO, 120 v	50.62
6G1061	(1) F30T12/RS, or (1) F40T12/RS, 120 v	5.60	6G3716	(2) FP12S, 120 v	19.90
6G1066	(1) F30T12/RS, or (1) F40T12/RS, 227 v	5.79	6G3717	(2) FP12S, 277 v	20.20
6G1075	(1) F30T12/RS, or (1) F40T12/RS, 120 v	2.85	6G3718	(1) F48T12/IS, 120 v	9.26
6G1085	(1) FC12T10/RS or (1) FC16T10/RS, 120 v	2.73	6G3719	(1) F48T12/IS, 277 v	9.63
6G1085G10	(1) FC12T10/RS, or (1) FC16T10/RS, 120 v	3.15	6G3720	(2) FP12S, 120 v	14.74
6G1091	(1) FC8T9/RS, 120 v	2.76	6G3724	(2) F48T12/HO, (2) F72T12/HO, 277 v	18.53
6G1091G10	(1) FC8T9/RS, 120 v	3.18	6G3725	Radio Interference Suppressor	17.60
6G1100	(1) FC8T9/RS and (1) FC12T10/RS, 120 v	3.74	6G3726	(2) FP12S, 277 v	14.93
6G1100G10	(1) FC8T9/RS and (1) FC12T10/RS, 120 v	4.31	6G3732	(2) Any Comb. of F72T12/HO, F84T12/HO, or F96T12/HO, 120 v	16.85
6G1110	(1) FC12T10/RS and (1) FC16T10/RS, 120 v	4.55	6G3733	(1) FP12S, 120 v	14.74
6G1110G10	(1) FC12T10/RS and (1) FC16T10/RS, 120 v	5.27	6G3736	(2) F48PG17 or F48T10 120 v	21.92
6G1141	(2) F72T12/HO or (2) F96T12/HO, 120 v	16.85	6G3738	(1) F48PG17 120 v	21.95
6G1151	(2) F72T12/HO or (2) F96T12/HO, 277 v	17.06	6G3739	(2) F24T12/HO, 287 v	18.53
6G1201A	(2) F72PG17 or (2) F96PG17, 120 v	30.94	6G3742	(1) F42T6 120 v	15.63
6G1211A	(2) F72PG17 or (2) F96PG17, 277 v	31.10	6G3751	Radio Interference Suppressor	7.37
6G1851	(2) F72T12, or (2) F96T12, 120 v	7.06	6G3754	(1) FP12S, 277 v	20.20
6G1856	(2) F72T12, or (2) F96T12, 277 v	7.35	6G3767	(1) FP12S, 120 v	19.85
6G3504	(1) F30T12/RS or (1) F40T12/RS, 240 v	9.34	6G3779	(3) Any Comb. of F72T12/HO, F84T12/HO, or F96T12/HO, 120 v	24.27
6G3505	(1) F30T12/RS or (1) F40T12/RS, 277 v	5.53	6G3783	(4) F72T12/HO or F96T12/HO	32.19
6G3509	(1) F6T5/HH, F8T5/HH, 120 v	3.66	6G3808	(3) Any Comb. of T12/HO with 12-ft min. length, 18-ft max length, 120 v	20.64
6G3510	(2) F20T12, 120 v	9.13	6G3812	(2) F20T12, 120 v	4.74
6G3511	(2) F20T12, 277 v	9.47	6G3830	(1) F30T12/RS, 265 v	7.77
6G3512	(2) F15T8, (2) F15T12, or (2) F20T12, 120 v	4.74	6G3834	(2) F48T12/HO, 120 v	17.02
6G3513	Any Comb. of F24T12/HO, F36T12/HO, or F48T12/HO, 120 v	19.25	6G3835	(2) F48T12/HO, 277 v	17.28
6G3525	(2) F72T12/HO or (2) F96T12/HO, 236 v	20.21	6G3845	(1) FP12S, 120 v	7.87
6G3532	(2) F72T12/HO or (2) F96T12/HO, 480 v	20.15	6G5001	(1) F40T12/RS Dimming Ballast, 120 v	11.79
6G3535	(2) F72T12/HO or (2) F96T12/HO, 120 v	24.90	6G5002	(4-6) F40/RS Dimming Auxiliary, 120 v	30.28
6G3551	(1) G25T8, 118 v	1.54	6G5003	Up to 600 F40/RS Intensity Selector, 120 v, 60 cycle	58.71
6G3554	(3) F48G17, 120 v	36.40	6G5005	Dimming Auxiliary	30.28
6G3560	(1) F14T12, (1) F15T12, (1) F15T8, or (1) F20T12, 120 v	3.00	6G5006	Intensity Selector	58.71
6G3568	(1) F72PG17; (1) F96PG17	21.92	6G5007	(2) F40/RS Dimming Ballast, 120 v	19.85
6G3579	(3) F72PG17, 120 v	37.35	6G5008	Dimming Auxiliary	32.65
6G3583	F96T12/HO, (1) F72T12/HO, or (1) F48T12/HO, and (2) F48T12/HO, 120 v	22.39	6G5009	3 Phase Intensity Selector	58.71
6G3584	(1) F48PG17, 120 v	28.00	6G5010	Three Phase Dimming Controls	232.44
6G3585	(1) F72PG17 or (1) F96PG17, 120 v	28.00	6G5011	Single Phase Dimming Controls	204.54
6G3587	(2) F48PG17, 120 v	28.00	6G5012	(4-20) F40T12/RS Dimming Control	58.71
6G3588	(2) F72PG17 or (2) F96PG17, 120 v	37.11	6G5026	(1) F14T12, (1) F15T12, or (1) F20T12	25.18
6G3593	(2) F64T6 or (2) F72T8, 118 v	24.65	6G5027	(1) F30T12/RS, (1) F40T12/RS, (1) FC12T10, or (1) FC16T10	36.96
6G3594	(2) F96T8, 118 v	19.40	6G5028	(1) F6T5/HH, or (1) F8T5/HH	21.75
6G3596	(2) F72PG17 or (2) F96G17, 208 v	37.32	6G5041	(2) F40T12/RS	12.75
6G3597	(2) F72PG17 or (2) F96PG17, 240 v	34.92	6G5042	(3) F40T12/RS	16.71
6G3616	(2) F30T12/RS, 120 v	8.31	6G5043	(4) F40T12/RS	15.22
6G3617	(2) F30T12/RS, 277 v	8.65	7E611	Accessories (Single Pot) DS-3000 System	2.94
6G3625	(2) F48PG17, 277 v	22.26	7E612	Accessories (Double Pot) DS-5000 System	9.01
6G3628	(3) F40T12/RS, 120 v	13.85	7E613	Accessories (Triple Pot) DS-3000 System	19.00
6G3529	(3) F40T12/RS, 277 v	14.21	7E617	Accessories (Triple Pot) DS-5000 System	20.60
6G3635	(1) FP 12S, 120 v	9.95	7G1000	(2) F40T12, 118 v	7.44
6G3646	(2) F72T12/HO, 120 v	21.50	7G1011	(2) F72T12 or (2) F96T12, 120 v	9.20
6G3648	(2) F40T12/RS, 240 v	8.90	7G1015	(2) F72T12 or (2) F96T12, 277 v	9.38
6G3650	(2) F48PG17, 240 v	25.31	7G1020A	(2) F40T12/RS, 120 v	5.60
6G3651	(2) F72T12 or (2) F96T12/IS, 240 v	17.68	7G1020G10	Quik-Change Kit	7.64
6G3660	(1) F48PG17, 240 v	25.31	7G1021	(2) F40T12/RS, 120 v	5.85
6G3661	(2) F72T12/HO, (2) F84T12/HO, or (2) F96T12/HO, 277 v	17.06	7G1030A	(2) F40T12/RS, 277 v	5.78
6G3664	(2) F72PG17 or (2) F96PG17, 277 v	31.10	7G1031	(2) F40T12/RS 120 v	6.03
6G3670	(1) F40/RS, Dimming Ballast, 120 v	6.35	7G1036	(2) F40T12/RS 265 v	6.72
6G3671	(2-9) F40/RS, 120 v, Dimming Auxiliary	36.62	7G1060	(1) F30T12/RS or F40T12/RS, 120 v	5.60
6G3672	(2) F72PG17, or (2) F96PG17, VHO, SHO, T10, T10J, 120 v	30.94	7G1061	(1) F30T12/RS, or (1) F40T12/RS, 120 v	5.85
6G3674	(2) F72PG17 or (2) F96PG17, 480 v	37.32	7G1066	(1) F30T12/RS, or (1) F40T12/RS, 277 v	6.04
6G3676	(1) FP12S, 277 v	14.93	7G1141	(2) F72T12/HO or (2) F96T12/HO, 120 v	17.10
6G3687	(3) F72PG17 or T10, T10J, 277 v	37.74	7G1151	(2) F72T12/HO or (2) F96T12/HO, 277 v	17.31

Full Package Purchases Subject to Current Discount

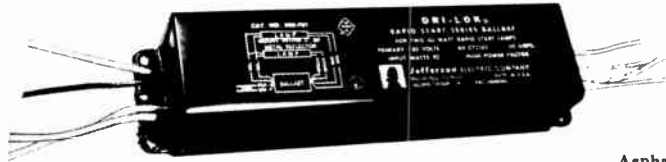
GENERAL ELECTRIC BALLASTS FOR FLUORESCENT LAMPS

COMPLETE LINE OF 60-CYCLE BALLASTS (Continued)

Catalog No.	Lamp and Power Source (All 60-cycle)	List Price, Each	Catalog No.	Lamp and Power Source (All 60-cycle)	List Price, Each
7G1201A	(2) F72PG17 or (2) F96PG17, 120 v	\$31.19	59G265	(4) F90T17, 277 v	\$28.04
7G1202	(2) F72PG17 or (2) F96PG17 VHO, SHO, 120 v	34.59	89G366	(2) F40T12, 277 v	11.37
7G1211A	(2) F72PG17 or (2) F96PG17, 277 v	31.35	89G381	(1) F14T12, (1) F15T8; (1) F15T12; (1) G15T8 or (1) F20T12, 118 v	.82
7G1212	(2) F72PG17 or (2) F96PG17 VHO, SHO, 277 v	34.78			
7G1300	(2) F96PG17, 120 v	36.28	89G422	(1) F15T8; (1) F15T12, 118 v	6.37
7G1490	(2) F72T12/IS or (2) F96T12/IS, 118 v	16.65	89G423	(1) F20T12, 118 v	6.37
7G1562	(2) F90T17, 118 v	19.93	89G424	(1) F14T12, 118 v	6.35
7G1600	(2) F48T12, 120 v	9.43	89G428	(2) F15T8; (2) F15T12, 118 v	6.37
7G1628	(2) F48T12, 118 v	12.43	89G429	(2) F20T12, 118 v	8.72
7G1631	(2) F48T12/IS, 277 v	12.57	89G435	(1) F4T5; (1) F6T5, (1) F8T5	1.03
7G1678	(1) F42T6, 118 v	8.83	89G457	(1) F14T12, (1) F15T8; (1) F15T12; or (1) F20T12, 118 v	.84
7G1684	(1) F64T6 or (1) F72T8, 118 v	8.83	89G458	(1) F15T8; (1) F15T12; or (1) F14T12 (1) F20T12, 118 v	.92
7G1710	(2) F48T12/IS, 265 v	9.88			
7G1762	(1) F72T12 or (1) F96T12, 120 v	9.20	89G467	(1) FC8T9 and (1) FC12T10, 118 v	3.09
7G1764	(1) F72T12 or (1) F96T12, 277 v	9.38	89G489	(1) F4T5 or (1) F6T5, F8T5, 118 v	1.03
7G1966	(1) F48T12/HO, 120 v	13.25	89G490	(2) F72T12 or (2) F96T12, 118 v	16.40
			89G499	(1) FC8T9, 118 v	1.31
7G1967	(1) F48T12/HO, 277 v	13.10			
7G1991	(2) F40T12/RS, (2) F30T12/RS, 120 v	10.60	89G504	(1) G4T4, 118 v	1.04
7G1992	(2) F40T12/RS, (2) F30T12/RS, 277 v	10.88	89G532	(2) F72T12 or (2) F96T12, 277 v	16.76
7G3505	(1) F30T12/RS or (1) F40T12/RS, 277 v	5.78	89G541(P)	(1) F40T12/RS, Dimming Ballast, 120 v	7.42
			89G562	(2) F90T17, 118 v	19.68
7G3510	(2) F20T12, 120 v	9.38			
7G3511	(2) F20T12, 277 v	9.72	89G567	(2) F90T17, 236 v	26.27
7G3616	(2) F30T12/RS, 120 v	8.54	89G568	(2) F90T17, 277 v	20.22
7G3617	(2) F30T12/RS, 277 v	8.90	89G581	(1) F64T6 or (1) F72T8, 118 v	12.94
			89G584	(2) F42T6, 118 v	17.85
7G3628	(3) F40T12/RS, 120 v	14.10			
7G3675	(2) F40T12, 120 v	10.24	89G585	(2) F64T6 or (2) F72T8, 118 v	18.22
7G3676	(1) FP12S, 277 v	15.18	89G586	(2) F64T6 or (2) F72T8, 118 v	19.40
7G3691	(1) F72PG17 or (1) F96PG17, 120 v	21.92	89G588	(2) F96T8, 118 v	18.56
			89G590	(2) F96T8, 118 v	24.65
7G3692	(1) F72PG17 or (1) F96PG17, 277 v	22.26			
7G3699	(2) F48PG17, 120 v	22.17	89G600	(2) F48T12, 120 v	9.18
7G3700	(2) F48PG17, 277 v	22.51	89G605	(1) F48T12/HO, (1) F72T12/HO, or (1) F96T12/HO, and (2) Any Comb. of F24T12/HO, F36T12/HO, F48T12/HO, F60T12/HO, F64T12/HO, or F72T12/HO, 120 v	17.09
7G3701	(1) F72T12/HO or (1) F96T12/HO, 120 v	16.17			
7G3702	(1) F72T12/HO or (1) F96T12/HO, 277 v	16.35	89G628	(2) G36T6; (2) F48T12, 118 v	12.18
7G3703	(1) F40T12/RS, 260 v	5.88	89G630	(2) F48T12, 236 v	19.97
7G3704	(1) F48PG17, 120 v	21.95			
7G3705	(1) F48PG17, 277 v	22.26	89G631	(2) F48T12, 277 v	12.32
7G3710	(1) F20T12, 120 v	9.35	89G635	Radio Intereference Suppressor	4.50
7G3711	(1) F20T12, 277 v	9.70	89G664	(1) F96T8, 120 v	12.94
7G3718	(1) F48T12/IS, 120 v	9.51	89G700	(1) FC12T10, 118 v	1.95
7G3719	(1) F48T12/IS, 277 v	9.88			
7G3720	(2) FP12S, 120 v	14.99	89G700G10	(1) FC12T10, 118 v	2.42
7G3726	(2) FP12S, 277 v	15.18	89G706	(1) F30T8, 118 v	6.37
7G3733	(1) FP12S, 120 v	14.99	89G710	(2) F48T12, 265 v	9.63
			89G711	(1) F40T12, 118 v	6.35
7G3790	(2) F72T12/HO or F96T12/HO, 120 v	31.89			
7G3792	(2) F72T12/HO or F96T12/HO, 208 v	36.05	89G713	(1) F13T5, 118 v	3.24
7G3793	(2) F72T12/HO or F96T12/HO, 277 v	32.08	89G718(P)	(1) F40T12/RS, Dimming Ballast, 120 v	10.47
7G3794	(2) F72T12/HO or F96T12/HO, 480 v	36.05	89G742	(1) F64T6 or (1) F72T8, 118 v	21.21
			89G762	(1) F72T12 or (1) F96T12, 120 v	8.95
7G3820	(2) F72PG17, or (2) F96PG17, 120 v	30.26			
7G3821	Second section of 7G3820	30.26	89G763	(1) F96T12, 236 v	12.31
7G3822	(2) F72PG17, or (2) F96PG17, 208 v	32.34	89G764	(1) F72T12 or (1) F96T12, 277 v	9.13
7G3823	Second section of 7G3822	32.34	89G776	(3) F40T12, 118 v	14.06
			89G780	(2) F30T8, 118 v	7.20
7G3824	(2) F72PG17, or (2) F96PG17, 240 v	31.83			
7G3825	Second section of 7G3824	31.83	89G800	(2) F40T12, 118 v	4.65
7G3826	(2) F72PG17, or (2) F96PG17, 277 v	30.45	89G825	(2) F40T12/RS, 120 v	5.15
7G3827	Second section of 7G3826	30.45	89G835	(1) F40T12, 236 v	9.50
			89G845	(2) F40T12, 236 v	10.03
7G3828	(2) F72PG17, or (2) F96PG17, 480 v	32.34			
7G3829	Second section of 7G3828	32.34	89G921	(1) F4T5; (1) F6T5; (1) F8T5, 118 v	.76
7G3834	(2) F48T12/HO, 120 v	17.27	89G927	(1) F72T12/HO or (1) F96T12/HO, 236 v	19.82
7G3835	(2) F48T12/HO, 277 v	17.53	89G929	(1) F40T12/RS, Dimming Ballast, 120 v	20.92
			89G957	(1) F13T8, (1) F14T8, (1) F14T12, (1) F15T8, or F15T12, 118 v	.76
7G3839	(1) F72PG17, or (1) F96PG17, 120 v	28.91			
7G3840	(1) F72PG17, or (1) F96PG17, 277 v	29.11	89G963	(1) F90T17, 120 v	19.13
7G3850	(2) F48T12/HO, 120 v	28.08	89G966	(1) F48T12/HO, 120 v	13.00
7G3853	(2) F48T12/HO, 277 v	28.60	89G967	(1) F48T12/HO, 277 v	13.35
			89G980	(1) F72T12 or (1) F96T12, 118 v	7.05
7G3855	(2) F48PG17, 120 v	52.00			
7G3858	(2) F48PG17, 277 v	52.52	89G988	(1) F20T12, 118 v	.76
58G672	(1) F30T8, 236 v	4.08	89G991	(2) F30T12/RS; (2) F40T12/RS, 120 v	10.35
58G675	(1) F40T12, 236 v	4.08	89G992	(2) F30T12/RS; (2) F40T12/RS, 277 v	10.63
58G676	(1) F40T12, 208 v	4.08			

Full Package Purchases Subject to Current Discount

JEFFERSON FLUORESCENT BALLASTS



Lamps Operated No. & Type	Nominal Line Voltage	Dri-Lok Cat. No.	Each	Dri-Lok Thermal Cat. No.	Each	Asphalt Compound Fill Cat. No.	Each	Lamp Min. Starting Temp.	Sound Group
RAPID START — HIGH POWER FACTOR — 14, 15 AND 20 WATT PREHEAT LAMPS — 60 CYCLE									
1-F14T12	120	.....	\$.....	254-1561-760	\$ 9.86	.....	\$.....	+50°F	A
	277	.....	.....	254-1568-760	10.22	.....	.....	+50°F	A
1-F15T8	120	.....	.....	254-1561-760	9.86	.....	.....	+50°F	A
	277	.....	.....	254-1568-760	10.22	.....	.....	+50°F	A
1-F15T12	120	.....	.....	254-1561-760	9.86	.....	.....	+50°F	A
	277	.....	.....	254-1568-760	10.22	.....	.....	+50°F	A
2-F15T12	120	.....	.....	254-1751-760	9.78	.....	.....	+50°F	A
	277	.....	.....	254-1758-760	10.25	.....	.....	+50°F	A
1-F20T12	120	.....	.....	254-1561-760	9.86	.....	.....	+50°F	A
	277	.....	.....	254-1568-760	10.22	.....	.....	+50°F	A
2-F20T12	120	.....	.....	254-1751-760	9.78	.....	.....	+50°F	A
	277	.....	.....	254-1758-760	10.25	.....	.....	+50°F	A
RAPID START — HIGH POWER FACTOR — 430 M.A. — 60 CYCLE									
1-F30T12	120	300-951	5.81	300-951-700	5.90	252-951	5.64	+50°F	A
	120	300-7951	5.81	300-7951-700	5.90	254-7951	5.64	+50°F	A
	240	.....	.....	300-953-700	9.66	.....	.....	+50°F	A
	277	300-958	5.98	300-958-700	6.09	252-958	5.83	+50°F	A
	277	300-7958	5.98	300-958-700	6.09	254-7958	5.83	+50°F	A
2-F30T12	120	.....	.....	300-1451-700	8.99	.....	.....	+50°F	A
	277	.....	.....	300-1458-700	9.38	.....	.....	+50°F	A
1-F40T12	120	300-951	5.81	300-951-700	5.90	252-951	5.64	+50°F	A
	120	300-7951	5.81	300-7951-700	5.90	254-7951	5.64	+50°F	A
	240	.....	.....	300-953-700	9.66	.....	.....	+50°F	A
	277	300-958	5.98	300-958-700	6.09	252-958	5.83	+50°F	A
	277	300-7958	5.98	300-7958-700	6.09	254-7958	5.83	+50°F	A
2-F40T12	120	300-701	5.81	300-701-700	5.90	252-701	5.64	+50°F	A
	120	300-7701	5.81	300-7701-700	5.90	254-7701	5.64	+50°F	A
	118	.....	.....	.....	.....	255-501	5.42	+50°F	A
	240	.....	.....	300-703-700	9.66	.....	.....	+50°F	A
	277	300-708	5.98	300-708-700	6.09	252-708	5.83	+50°F	A
277	300-7708	5.98	300-7708-700	6.09	254-7708	5.83	+50°F	A	
3-F40T12	120	300-1291	14.77	.....	.....	.....	.....	+50°F	C
	277	300-1298	15.15	.....	.....	.....	.....	+50°F	C
RAPID START — HIGH POWER FACTOR — 800 M.A. — 60 CYCLE									
1-F48T12/HO	120	.....	.....	.....	.....	254-1741	16.35	-20°F	D
	118	254-1011-060	13.22	.....	.....	.....	.....	+50°F	B
	277	254-1018-060	14.08	.....	.....	.....	.....	+50°F	B
2-F48T12/HO	120	.....	.....	.....	.....	254-1701	18.02	-20°F	D
	120	.....	.....	.....	.....	254-1721	18.02	-20°F	D
	120	.....	.....	254-1681-760	18.21	.....	.....	+50°F	B
3-F48T12/HO	277	.....	.....	254-1688-760	18.48	.....	.....	+50°F	B
	120	.....	.....	.....	.....	254-1711	20.30	-20°F	D
	120	.....	.....	.....	.....	254-1791	21.76	-20°F	D
1-F72T12/HO	120	.....	.....	.....	.....	254-1731	18.02	-20°F	D
	120	.....	.....	254-1671-760	17.05	.....	.....	+50°F	B
	277	.....	.....	254-1678-760	17.24	.....	.....	+50°F	B
2-F72T12/HO	120	.....	.....	.....	.....	254-1721	18.02	-20°F	D
	120	300-721	17.92	300-721-700	18.02	254-721	17.81	-20°F	B
	240	.....	.....	300-723-700	21.57	.....	.....	-20°F	B
	277	300-728	18.14	300-728-700	18.24	254-728	17.99	-20°F	B
3-F72T12/HO	120	.....	.....	.....	.....	254-1791	21.76	-20°F	D
	120	.....	.....	.....	.....	254-1531	25.59	-20°F	D
	120	.....	.....	.....	.....	254-1731	18.02	-20°F	D
1-96T12/HO	120	.....	.....	254-1671-760	17.05	.....	.....	+50°F	B
	120	.....	.....	254-1678-760	17.24	.....	.....	+50°F	B
	277	.....	.....	.....	.....	.....	.....	.....	.....
2-96T12/HO	120	300-721	17.92	300-721-700	18.02	254-721	17.81	-20°F	B
	240	.....	.....	300-723-700	21.57	.....	.....	-20°F	B
	277	300-728	18.14	300-728-700	18.24	254-728	17.99	-20°F	B
3-96T12/HO	120	.....	.....	.....	.....	254-1531	25.59	-20°F	D

JEFFERSON FLUORESCENT BALLASTS

Lamps Operated No. & Type	Nominal Line Voltage	Dri-Lok Cat. No.	Each	Dri-Lok Thermal Cat. No.	Each	Asphalt Compound Fill Cat. No.	Each	Min. Lamp Starting Temp.	Sound Group
RAPID START — HIGH POWER FACTOR — 1000 M.A. — 60 CYCLE									
2-F72T12	120	.....	\$.....	.....	\$.....	254-811	\$22.66	-20°F	E
2-F96T12	120	.....	.....	.....	.....	254-811	22.66	0°F	E

RAPID START — HIGH POWER FACTOR — 1500 M.A. — 60 CYCLE									
1-48 VHO, SHO, PG	120	.....	.....	.....	.....	254-1361	23.14	-20°F	E
	120	300-1391	23.38	.....	.....	.....	.....	-20°F	E
	120	.....	.....	254-1441-760	23.14	.....	.....	+50°F	C
	277	.....	.....	254-1448-760	23.46	.....	.....	+50°F	C
2-48 VHO, SHO, PG	120	.....	.....	.....	.....	254-1251	32.61	-20°F	E
	120	.....	.....	300-931-700	23.38	.....	.....	+50°F	D
	120	300-1271	23.27	.....	.....	.....	.....	-20°F	E
	240	.....	.....	300-933-700	26.95	.....	.....	+50°F	D
	277	.....	.....	300-938-700	23.73	.....	.....	+50°F	D
	277	300-1278	23.63	.....	.....	.....	.....	-20°F	E
3-48 VHO, SHO, PG	120	.....	.....	.....	.....	254-1211	38.37	-20°F	E
	120	.....	.....	.....	.....	254-1201	39.37	-20°F	E
1-72 VHO, SHO, PG	120	300-1391	23.38	.....	.....	.....	.....	-20°F	E
	120	.....	.....	300-1331-700	23.38	.....	.....	-20°F	E
	277	.....	.....	300-1338-700	23.72	.....	.....	-20°F	E
2-72 VHO, SHO, PG	120	.....	.....	.....	.....	254-1251	32.61	-20°F	E
	120	300-1611	32.78	300-1611-700	32.88	.....	.....	-20°F	C
	240	.....	.....	300-1613-700	37.08	.....	.....	-20°F	C
	277	300-1618	32.95	300-1618-700	33.05	.....	.....	-20°F	C
3-72 VHO, SHO, PG	120	.....	.....	.....	.....	254-1201	39.37	-20°F	E
	120	.....	.....	.....	.....	254-1551	45.05	-20°F	E
1-96 VHO, SHO, PG	120	.....	.....	300-1331-700	23.38	.....	.....	-20°F	E
	277	.....	.....	300-1338-700	23.72	.....	.....	-20°F	E
2-96-VHO, SHO, PG	120	300-1611	32.78	300-1611-700	32.88	.....	.....	-20°F	C
	240	.....	.....	300-1613-700	37.08	.....	.....	-20°F	C
	277	300-1618	32.95	300-1618-700	33.05	.....	.....	-20°F	C
3-96 VHO, SHO, PG	120	.....	.....	.....	.....	254-1551	45.05	-20°F	E

RAPID START — CIRCLINE BALLASTS — HIGH POWER FACTOR — 60 CYCLE									
1-FC8T9	118	.....	.....	.....	.....	253-101*	2.91	+50°F	A
1-FC12T10	118	.....	.....	.....	.....	253-111*	2.87	+50°F	A
1-FC16T10	118	.....	.....	.....	.....	253-111*	2.87	+50°F	A

*Normal Power Factor

SLIMLINE AND INSTANT START — HIGH POWER FACTOR — ONE LAMP — 60 CYCLE									
1-48T12	188	.....	.....	.....	.....	254-891	9.76	0°F	D
	277	.....	.....	.....	.....	254-128	10.15	0°F	D
1-72T12	120	300-1281	9.61	300-1281-700	9.69	252-1281	9.38	0°F	C
	277	.....	.....	300-1288-700	9.89	252-1288	9.62	0°F	C
1-96T12	120	300-1281	9.61	300-1281-700	9.69	252-1281	9.38	0°F	C
	277	.....	.....	300-1288-700	9.89	252-1288	9.62	0°F	C

SLIMLINE AND INSTANT START — HIGH POWER FACTOR — TWO LAMP LEAD LAG — 60 CYCLE									
2-48T12	120	300-1321	13.01	.....	.....	.....	.....	0°F	C
	277	300-1328	13.16	.....	.....	.....	.....	0°F	C
2-60T17	120	300-1321	13.01	.....	.....	.....	.....	0°F	C
	277	300-1328	13.16	.....	.....	.....	.....	0°F	C
2-72T12	120	300-411	17.29	.....	.....	.....	.....	0°F	A
	277	300-418	17.66	.....	.....	.....	.....	0°F	A
2-96T12	120	300-411	17.29	.....	.....	.....	.....	0°F	A
	277	300-418	17.66	.....	.....	.....	.....	0°F	A

JEFFERSON FLUORESCENT BALLASTS

Lamps Operated No. & Type	Nominal Line Voltage	Dri-Lok Cat. No.	Each	Dri-Lok Thermal Cat. No.	Each	Asphalt Compound Fill Cat. No.	Each	Min. Lamp Starting Temp.	Sound Group
SLIMLINE AND INSTANT START — HIGH POWER FACTOR — TWO LAMP SERIES SEQUENCE — 60 CYCLE									
2-48T12	120	.....	.....	.....	.....	254-1571	\$14.37	+50°F	C
	120	300-1151	\$9.84	300-1151-700	\$9.95	.....	.....	+50°F	C
	277	.....	.....	.....	.....	254-1578	14.98	+50°F	C
	277	300-1158	10.32	300-1158-700	10.42	.....	.....	+50°F	C
2-72T12	120	.....	.....	.....	.....	255-541	7.45	+50°F	C
	120	300-791	9.59	300-791-700	9.69	252-791	9.44	+50°F	C
	240	.....	.....	300-793-700	18.90	.....	.....	+50°F	C
	277	300-798	9.76	300-798-700	9.96	252-798	9.62	+50°F	C

PREHEAT SINGLE LAMP — NORMAL POWER FACTOR — 60 CYCLE									
1-F14T12	118	.....	.....	.....	.....	234-521	2.21	+50°F	.....
	118	.....	.....	.....	.....	234-531	1.36	+50°F	.....
1-F15T8	118	.....	.....	.....	.....	234-501	2.38	+50°F	.....
	118	.....	.....	.....	.....	234-531	1.36	+50°F	.....
1-F15T12	118	.....	.....	.....	.....	234-501	2.38	+50°F	.....
	118	.....	.....	.....	.....	234-531	1.36	+50°F	.....
1-F20T12	118	.....	.....	.....	.....	234-511	2.38	+50°F	.....
	118	.....	.....	.....	.....	234-551	1.19	+50°F	.....
1-F30T8	118	.....	.....	.....	.....	234-921	2.06	+50°F	A
1-F40T12	118	.....	.....	.....	.....	234-281	2.06	+50°F	A

PREHEAT SINGLE LAMP — HIGH POWER FACTOR — 60 CYCLE									
1-F15T8	118	.....	.....	.....	.....	234-601	6.72	+50°F	D
1-F15T12	118	.....	.....	.....	.....	234-601	6.72	+50°F	D
1-F40T12	118	.....	.....	.....	.....	234-781	6.70	+50°F	A
1-F90T17	118	.....	.....	.....	.....	234-691	20.16	+50°F	E
1-F100T17	118	.....	.....	.....	.....	234-691	20.16	+50°F	E

PREHEAT TWO LAMP — NORMAL POWER FACTOR — 60 CYCLE									
2-F15T8	118	.....	.....	.....	.....	234-985	\$ 3.55	+50°F	.....
2-F15T12	118	.....	.....	.....	.....	234-985	3.55	+50°F	.....
2-F20T12	118	.....	.....	.....	.....	234-986	3.55	+50°F	.....

PREHEAT TWO AND THREE LAMP — HIGH POWER FACTOR — 60 CYCLE									
2-F30T8	120	302-991	7.75	.....	.....	.....	.....	+50°F	A
2-F40T12	120	302-881	7.67	.....	.....	.....	.....	+50°F	A
	118	.....	.....	.....	.....	255-121	4.90	+50°F	A
	277	302-888	12.16	.....	.....	.....	.....	+50°F	A
3-F40T12	118	.....	.....	.....	.....	234-983	14.82	+50°F	B
	236	.....	.....	.....	.....	.....	.....	+50°F	B
2-F90T17	120	.....	.....	.....	.....	234-1001	20.74	+50°F	C
	240	.....	.....	.....	.....	234-1003	27.69	+50°F	C
	277	.....	.....	.....	.....	234-1008	21.32	+50°F	C
2-F100T17	120	.....	.....	.....	.....	234-1001	20.74	+50°F	C
	240	.....	.....	.....	.....	234-1003	27.69	+50°F	C
	277	.....	.....	.....	.....	234-1008	21.33	+50°F	C

DC INVERTER BALLASTS									
For Operation Of 20, 30 And 40 Watt Rapid Start Lamps From A DC Source									
1-F30T12 or	DC	.....	.....	.....	.....	.....	.....	0°F	.....
1-F40T12	12	400-101	45.58	.....	.....	.....	.....	0°F	.....
2-F30T12 or	DC	.....	.....	.....	.....	.....	.....	0°F	.....
2-F40T12	12	400-121	54.57	.....	.....	.....	.....	0°F	.....

JEFFERSON CONVERT-A-BALLAST KITS



Converts old pre-heat fixtures to modern Rapid Start. Pre-wired to sockets to save time and money . . . quick and easy to install. Eliminates 10 connections, eliminates error. Dri-Lock ballast cannot drip compound ever.

Lamps Operated No. & Type	Nom. Line Volt.	Dri-Lok Cat. No.	Each	Min. Lamp Start Temp.	Sound Group
CONVERT TO RAPID START (430 M.A.)					
1-F30T12/RS	120	300-141	\$8.06	+50°F	A
or	240	300-143	11.85	+50°F	A
1-F40T12/RS	277	300-148	8.64	+50°F	A
	120	300-241	8.06	+50°F	A
2-F40T12/RS	240	300-243	11.85	+50°F	A
	277	300-248	8.64	+50°F	A
	120	300-341	16.30	+50°F	C
3-F40T12/RS	277	300-348	16.92	+50°F	C
CONVERT TO INSTANT START (430 M.A.)					
2-F72T12/IS	120	300-291	18.14	+50°F	C
or	240	300-293	26.52	+50°F	C
2-F96T12/IS	277	300-298	18.56	+50°F	C
1-F72T12/IS	120	300-191	17.54	0°F	C
or	277	300-198	17.97	0°F	C
1-F96T12/IS					
CONVERT TO HIGH OUTPUT (800 M.A.)					
2-F96T12/HO	120	300-2981	27.86	-20°F	B
or	240	300-2983	33.25	-20°F	B
2-F72T12/HO	277	300-2988	28.15	-20°F	B

JEFFERSON FLUOR-A-DIM BALLASTS



Fluorescent dimming system dims the full range of the lamp full bright to immeasurable output . . . uniform dimming and no flicker . . . not even at lowest level.

Lamps Operated No. & Type	Nom. Line Volt.	Dri-Lok Cat. No.	Each	Min. Lamp Start Temp.	Sound Group
Fluor-A-Dim Ballasts					
1-F40T12	120	251-201	\$8.50	+50°F	....
	277	251-208	9.35	+50°F	....
Fluor-A-Dim Auxiliary Equipment					
Dimensions: 17" long x 2 3/8" wide x 1 1/8" high.					
4 to 20					
F40T12/RS	120	251-012	89.00	.....	....
10 to 50					
F40T12/RS	277	251-013	142.38	.....	....

JEFFERSON INDOOR MERCURY LAMP BALLASTS



GUARANTEE — The Jefferson Electric Company agrees to correct by repair or replacement, at company's option, any transformer which shall fail in service within a period of two years from date of manufacture, provided conditions of operation have been normal at all times and that the transformer has not been subjected to abnormal stresses from such causes as incorrect primary voltage and frequency.

The Jefferson Electric Company's obligation under this guarantee, which is in lieu of all other warranties, expressed or implied, is limited to replace or repairing defective parts free of charge provided they are returned to the factory.

N.E.M.A., U.L. and A.S.A.: Jefferson mercury ballasts meet or surpass all standards. Many ratings are listed with the Underwriters' Laboratories. These bear the U.L. label. All Jefferson mercury ballasts are designed, built and tested in accordance with N.E.M.A. and A.S.A. standards.

Cat. No.	Input Voltage	Minimum Lamp Starting Temp.	Each
100 WATT — HIGH POWER FACTOR — 60 CYCLE			
CONSTANT WATTAGE — NORMAL AMBIENT			
Single Lamp — One H38 Lamp			
237-1381	100-130x200-260	-20°F	\$38.60
237-1384	180-235	-20°F	38.60
237-1386	240-315	-20°F	38.60
237-1388	400-520	-20°F	38.60
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One H38 Lamp			
337-1381	108-132	0°F	28.90
337-1386	216-264/250-305	0°F	28.90
331-1388	432-528	0°F	28.90
175 WATT — HIGH POWER FACTOR — 60 CYCLE			
CONSTANT WATTAGE — NORMAL AMBIENT			
Single Lamp — One H39 Lamp			
237-1391	100-130x200-260	-20°F	48.30
237-1394	180-235	-20°F	48.30
237-1396	240-315	-20°F	48.30
237-1398	400-520	-20°F	48.30
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One H39 Lamp			
337-1391	108-132	0°F	38.70
337-1396	216-264/250-305	0°F	38.70
337-1398	432-528	0°F	38.70
250 WATT — HIGH POWER FACTOR — 60 CYCLE			
CONSTANT WATTAGE — NORMAL AMBIENT			
Single Lamp — One H37 Lamp			
237-1371	100-130x200-260	-20°F	53.80
237-1374	180-235	-20°F	53.80
237-1376	240-315	-20°F	53.80
237-1378	400-520	-20°F	53.80
Two Lamp Series — Two H37 Lamps			
237-4371	100-130x200-260	+50°F	70.60
237-4374	180-235	+50°F	70.60
237-4376	240-315	+50°F	70.60
237-4378	400-520	+50°F	70.60
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One H37 Lamp			
337-1371	108-132	0°F	43.00
337-1376	216-264/250-305	0°F	43.00
337-1378	432-528	0°F	43.00
CONSTANT WATTAGE — HIGH AMBIENT			
Single Lamp — One H37 Lamp			
237-1371-100	100-130x200-260	-20°F	65.50
237-1374-100	180-235	-20°F	65.50
237-1376-100	240-315	-20°F	65.50
237-1378-100	400-520	-20°F	65.50

JEFFERSON INDOOR MERCURY LAMP BALLASTS

Cat. No.	Input Voltage	Minimum Lamp Starting Temp.	Each
400 WATT — HIGH POWER FACTOR — 60 CYCLE			
CONSTANT WATTAGE — NORMAL AMBIENT			
Single Lamp — One H33 Lamp			
237-1331	100-130x200-260	-20°F	\$53.80
237-1334	180-235	-20°F	53.80
237-1336	240-315	-20°F	53.80
237-1338	400-520	-20°F	53.80
Two Lamp Independent — Two H33 Lamps			
237-2331	100-130x200-260	-20°F	104.90
237-2334	180-235	-20°F	101.70
237-2336	240-315	-20°F	106.60
237-2338	400-520	-20°F	106.60
Two Lamp Series — Two H33 Lamps			
237-4331	100-130x200-260	+32°F	70.70
237-4334	180-235	+32°F	70.70
237-4336	240-315	+32°F	70.70
237-4338	400-520	+32°F	70.70
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One H33 Lamp			
337-1331	108-132	0°F	43.00
337-1336	216-264/250-305	0°F	43.00
337-1338	432-528	0°F	43.00
Two Lamp Series — Two H33 Lamps			
337-4331	108-132	0°F	59.30
337-4336	216-264/250-305	0°F	59.30
337-4338	432-528	0°F	59.30
233-1331	120	-10°F	41.25
233-1336	220/240/265/277	-10°F	41.25
233-1338	420/460/500	-20°F	41.25
Two Lamp Lead-Lag — Two H33 Lamps			
CONVENTIONAL NONREGULATED — NORMAL AMBIENT			
Single Lamp — One H33 Lamp			
233-3331	105/115/125	-10°F	81.40
233-3333	230	-20°F	60.60
233-3334	188/208/230	-10°F	81.40
233-3336	277	-20°F	60.60
233-3338	420/460/500	-10°F	81.40
Two Lamp Series — Two H33 Lamps			
233-4338	480	+10°F	50.40
CONSTANT WATTAGE — HIGH AMBIENT			
Single Lamp — One H33 Lamp			
237-1331-100	100-130x200-260	-20°F	64.50
237-1334-100	180-235	-20°F	64.50
237-1336-100	240-315	-20°F	64.50
237-1338-100	400-520	-20°F	64.50
Two Lamp Independent — Two H33 Lamps			
237-2331-100	100-130x200-260	-20°F	113.20
237-2334-100	180-235	-20°F	113.20
237-2336-100	240-315	-20°F	113.20
237-2338-100	400-520	-20°F	113.20
Two Lamp Series — Two H33 Lamps			
237-4331-100	100-130x200-260	+32°F	86.40
237-4334-100	180-235	+32°F	86.40
237-4336-100	240-315	+32°F	86.40
237-4338-100	400-520	+32°F	86.40
ECONO-MERC — HIGH AMBIENT			
Single Lamp — One H33 Lamp			
337-1331-100	108-132	0°F	52.80
337-1336-100	216-264/250-305	0°F	52.80
337-1338-100	432-528	0°F	52.80
Two Lamp Series — Two H33 Lamps			
337-4331-100	108-132	0°F	75.70
337-4336-100	216-264/250-305	0°F	75.70
337-4338-100	432-528	0°F	75.70
CONVENTIONAL NONREGULATED — HIGH AMBIENT			
Two Lamp Series — Two H33 Lamps			
233-4338-100	480	+10°F	81.90
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One Metalarc Lamp			
337-1781	108-132x216-264	.....	68.90
337-1784	187x229	.....	68.90
337-1786	216-264x250-305	.....	68.90
337-1788	432x528	.....	68.90

Cat. No.	Input Voltage	Minimum Lamp Starting Temp.	Each
700 & 1000 WATT — HIGH POWER FACTOR — 60 CYCLE			
CONSTANT WATTAGE — NORMAL AMBIENT			
Single Lamp — One 700 Watt H35 Lamp			
237-1351	100-130x200-260	-20°F	\$89.70
237-1354	180-235	-20°F	89.70
237-1356	240-315	-20°F	89.70
237-1358	400-520	-20°F	89.70
Single Lamp — 1000 Watt H34 Lamp			
237-1341	100-130x200-260	-20°F	108.20
237-1344	180-235	-20°F	108.20
237-1346	240-315	-20°F	100.30
237-1348	400-520	-20°F	126.00
Single Lamp — One 1000 Watt H36 Lamp			
237-1361	100-130x200-260	-20°F	97.40
237-1364	180-235	-20°F	97.40
237-1366	240-315	-20°F	97.40
237-1368	400-520	-20°F	97.40
ECONO-MERC — NORMAL AMBIENT			
Single Lamp — One 700 Watt H35 Lamp			
337-1351	108-132	-20°F	76.60
337-1356	216-264/250-305	-20°F	76.60
337-1358	432-528	-20°F	76.60
Single Lamp — One 1000 Watt H36 Lamp			
337-1361	108-132	-20°F	81.90
337-1366	216-264/250-305	-20°F	81.90
337-1368	432-528	-20°F	81.90
Two Lamp Independent — Two 1000 Watt H36 Lamps			
337-2361	108-132	-20°F	138.20
337-2366	216-264/250-305	-20°F	138.20
337-2368	432-528	-20°F	138.20
CONVENTIONAL NONREGULATED — NORMAL AMBIENT			
Single Lamp — One 700 Watt H35 or 1000 Watt H36 Lamp			
233-1366	120/240/277	-20°F	107.30
233-1368	480	-20°F	54.30
Single Lamp — One 1000 Watt H34 Lamp			
233-1341	105/115/125	+30°F	108.20
233-1343	210/230/250	+30°F	108.20
233-1346	220/240/265/277	+30°F	92.70
233-1348	420/460/500	+30°F	119.90
Two Lamp Independent — Two 1000 Watt H36 Lamps			
233-2368	480	-20°F	101.70
CONSTANT WATTAGE — HIGH AMBIENT			
Single Lamp — One 700 Watt H35 Lamp			
237-1351-100	100-130x200-260	-20°F	106.80
237-1354-100	180-235	-20°F	106.80
237-1356-100	240-315	-20°F	106.80
237-1358-100	400-520	-20°F	106.80
Single Lamp — One 1000 Watt H34 Lamp			
237-1341	100-130x200-260	-20°F	131.20
237-1344	180-235	-20°F	131.20
237-1346	240-315	-20°F	131.20
237-1348	400-520	-20°F	131.20
Single Lamp — One 1000 Watt H36 Lamp			
237-1361-100	100-130x200-260	-20°F	115.70
237-1364-100	180-235	-20°F	115.70
237-1366-100	240-315	-20°F	115.70
237-1368-100	400-520	-20°F	115.70
Single Lamp — One 1000 Watt H36 Lamp			
337-1361-100	108-132	-20°F	99.70
337-1366-100	216-264/250-305	-20°F	99.70
337-1368-100	432-528	-20°F	99.70
Two Lamp Independent — Two 1000 Watt H36 Lamps			
337-2361-100	108-132	-20°F	151.00
337-2366-100	216-264/250-305	-20°F	151.00
337-2368-100	432-528	-20°F	151.00
Single Lamp — One 1000 Watt H36 Lamp			
233-1368-100	480	-20°F	68.30

JEFFERSON OUTDOOR MERCURY LAMP BALLASTS

Universal Mounting



GUARANTEE — The Jefferson Electric Company agrees to correct by repair or replacement, at company's option, any transformer which shall fail in service within a period of two years from date of manufacture, provided conditions of operation have been normal at all times and that the transformer has not been subjected to abnormal stresses from such causes as incorrect primary voltage and frequency.

The Jefferson Electric Company's obligation under this guarantee, which is in lieu of all other warranties, expressed or implied, is limited to replace or repairing defective parts free of charge provided they are returned to the factory.

N.E.M.A., U.L. and A.S.A.: Jefferson mercury ballasts meet or surpass all standards. Many ratings are listed with the Underwriters' Laboratories. These bear the U.L. label. All Jefferson mercury ballasts are designed, built and tested in accordance with N.E.M.A. and A.S.A. standards.

Cat. No.	Input Voltage	Minimum Lamp Starting Temp.	Each
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100 WATT — HIGH POWER FACTOR — 60 CYCLE

CONSTANT WATTAGE TYPE
Single Lamp — One H38 Lamp

236-1381	100-130x200-260	-20°F	\$66.20
236-1384	180-235	-20°F	66.20
236-1386	240-315	-20°F	66.20
236-1388	400-520	-20°F	66.20

ECONO-MERC TYPE
Single Lamp — One H38 Lamp

336-1381	108-132	-20°F	50.50
336-1386	216-264/250-305	-20°F	50.50
336-1388	432-528	-20°F	50.50

175 WATT — HIGH POWER FACTOR — 60 CYCLE

CONSTANT WATTAGE TYPE
Single Lamp — One H39 Lamp

236-1391	100-130x200-260	-20°F	69.60
236-1394	180-235	-20°F	69.60
236-1396	240-315	-20°F	69.60
236-1398	200-260x400-520	-20°F	69.60

ECONO-MERC TYPE
Single Lamp — One H39 Lamp

336-1391	108-132	-20°F	54.90
336-1396	216-264/250-305	-20°F	54.90
336-1398	432-528	-20°F	54.90

250 WATT — HIGH POWER FACTOR — 60 CYCLE

CONSTANT WATTAGE TYPE
Single Lamp — One H37 Lamp

236-1371	100-130x200-260	-20°F	76.80
236-1374	180-235	-20°F	76.80
236-1376	240-315	-20°F	76.80
236-1378	200-260x400-520	-20°F	76.80

Two Lamp Independent — Two H37 Lamps

236-2371	100-130x200-260	-20°F	133.20
236-2374	180-235	-20°F	133.20
236-2376	240-315	-20°F	133.20
236-2378	200-260x400-520	-20°F	133.20

ECONO-MERC TYPE
Single Lamp — One H37 Lamp

336-1371	108-132	-20°F	59.90
336-1376	216-264/250-305	-20°F	59.90
336-1378	432-528	-20°F	59.90

Universal Mounting

Cat. No.	Input Voltage	Minimum Lamp Starting Temp.	Each
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400 WATT — HIGH POWER FACTOR — 60 CYCLE

CONSTANT WATTAGE TYPE
Single Lamp — One H33 Lamp

236-1331	100-130x200-260	-20°F	\$76.80
236-1334	180-235	-20°F	76.80
236-1336	240-315	-20°F	76.80
236-1338	200-260x400-520	-20°F	76.80

Two Lamp Independent — Two H33 Lamps

236-2331	100-130x200-260	-20°F	135.90
236-2334	180-235	-20°F	135.90
236-2336	240-315	-20°F	135.90
236-2338	200-260x400-520	-20°F	135.90

ECONO-MERC TYPE
Single Lamp — One H33 Lamp

336-1331	108-132	-20°F	60.40
336-1336	216-264x250-305	-20°F	60.40
336-1338	432-528	-20°F	60.40

Two Lamp Series — Two H33 Lamps

336-4331	108-132	0°F	68.70
336-4336	216-264/250-305	0°F	68.70
336-4338	432-528	0°F	68.70

CONVENTIONAL NONREGULATED TYPE
Single Lamp — One H33 Lamp

232-1331	105/115/125	-20°F	63.70
232-1333	240	-20°F	56.00
232-1336	277	-20°F	58.40
232-1338	420/460/500	-20°F	63.70

Single Lamp — One H1 or H33 Lamp

232-1011	110/120/220/240	-20°F	76.10
232-1014	188/208/220/240	-20°F	76.10
232-1016	250/265/277	-20°F	76.10
232-1018	420/460/500	-20°F	76.10

Two Lamp Independent — Two H33 Lamps

232-2331	105/115/125	-20°F	108.90
232-2333	240	-20°F	95.30
232-2336	277	-20°F	99.30
232-2338	420/460/500	-20°F	108.90

ECONO-MERC TYPE
Single Lamp — One Metalarc Lamp

336-1781	108-132x216-264	.....	89.80
336-1784	187-229	.....	89.80
336-1786	216-264x250-305	.....	89.80
336-1788	432-528	.....	89.80

1000 WATT — HIGH POWER FACTOR — 60 CYCLE

CONSTANT WATTAGE TYPE
Single Lamp — One H36 Lamp

236-1361	100-130x200-260	-20°F	160.10
236-1364	180-235	-20°F	160.10
236-1366	240-315	-20°F	160.10
236-1368	200-260x400-520	-20°F	160.10

ECONO-MERC TYPE
Single Lamp — One H36 Lamp

336-1361	108-132x216-264	-20°F	124.20
336-1366	216-264/250-305	-20°F	124.20
336-1368	432-528	-20°F	124.20

Two Lamp Independent — Two H36 Lamps

336-2361	108-132x216-264	-20°F	219.40
336-2366	216-264/250-305	-20°F	219.40
336-2368	432-528	-20°F	219.40

CONVENTIONAL NONREGULATED TYPE
Single Lamp — One H35 or H36 Lamp

232-1366	120/240/277	-20°F	127.70
232-1368	480	-20°F	91.00

GENERAL ELECTRIC LAMPS

LAMP DISCOUNT SCHEDULES

All Prices Shown Are Manufacturer's List Price

LARGE LAMP DISCOUNTS TO PURCHASERS

WITHOUT CONTRACT

Purchase of:	Discount
Less than \$10.00 List Value.....	None
\$10.00 List and Over.....	33 1/2%

SEE US ABOUT A G.E. LAMP CONTRACT

By purchasing all your large lamps on a G.E. contract with Graybar, you will receive the maximum discount based on the total amount of all your lamp purchases. Graybar offers 10,000 different shapes, sizes, and large, photo, and miniature types to meet every requirement. Graybar gives local delivery nationally from over 140 locations.

Miniature and photo lamp discounts obtainable on request.

GENERAL LINE FLUORESCENT LAMPS



Medium Bipin Bases

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
14	15	T-12	1 1/2	F14T12/CW	24	\$1.05
14	15	T-12	1 1/2	F14T12/CWX	24	1.14
14	15	T-12	1 1/2	F14T12/WW	24	1.14
14	15	T-12	1 1/2	F14T12/WWX	24	1.14
14	15	T-12	1 1/2	F14T12/D	24	1.14
14	15	T-12	1 1/2	F14T12/W	24	1.14
15	18	T-8	1	F15T8/CW	24	1.05
15	18	T-8	1	F15T8/CWX	24	1.14
15	18	T-8	1	F15T8/WW	24	1.14
15	18	T-8	1	F15T8/WWX	24	1.14
15	18	T-8	1	F15T8/D	24	1.14
15	18	T-8	1	F15T8/W	24	1.14
15	18	T-12	1 1/2	F15T12/CW	24	1.05
15	18	T-12	1 1/2	F15T12/WWX	24	1.14
15	18	T-12	1 1/2	F15T12/D	24	1.14
15	18	T-12	1 1/2	F15T12/W	24	1.14
20	24	T-12	1 1/2	F20T12/CW	24	.92
20	24	T-12	1 1/2	F20T12/CWX	24	1.00
20	24	T-12	1 1/2	F20T12/WW	24	1.00
20	24	T-12	1 1/2	F20T12/WWX	24	1.00
20	24	T-12	1 1/2	F20T12/D	24	1.00
20	24	T-12	1 1/2	F20T12/W	24	1.00
25	28	T-12	1 1/2	F25T12/CW/28	24	1.91
25	33	T-12	1 1/2	F25T12/CW/33	24	2.00
30	36	T-8	1	F30T8/CW	24	1.24
30	36	T-8	1	F30T8/CWX	24	1.33
30	36	T-8	1	F30T8/WW	24	1.33
30	36	T-8	1	F30T8/WWX	24	1.33
30	36	T-8	1	F30T8/D	24	1.33
30	36	T-8	1	F30T8/W	24	1.33
19	30	T-8	1	F30T8/CW/4	24	2.00
40	48	T-12	1 1/2	F40CW	24	1.05
40	48	T-12	1 1/2	F40CWX	24	1.15
40	48	T-12	1 1/2	F40WW	24	1.15
40	48	T-12	1 1/2	F40WWX	24	1.15
40	48	T-12	1 1/2	F40D	24	1.15
40	48	T-12	1 1/2	F40W	24	1.15
40	48	T-12	1 1/2	F40CW/54	24	1.05
40	48	T-12	1 1/2	F40T12/CW/IS*	24	2.05
40	48	T-12	1 1/2	F40T12/D/IS*	24	2.24
40	48	T-12	1 1/2	F40T12/SW/IS*	24	3.00

* For instant start service. No starters required.

Mogul Bipin Bases

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
40	60	T-17	2 1/8	F40T17/CW/IS*	12	\$4.05
40	60	T-17	2 1/8	F40T17/CWX/IS*	12	4.24
40	60	T-17	2 1/8	F40T17/WW/IS*	12	4.24
90	60	T-17	2 1/8	F90T17/CW	12	2.50
90	60	T-17	2 1/8	F90T17/WW	12	2.70
90	60	T-17	2 1/8	F90T17/D	12	2.70

* For instant start service. No starters required.

Color symbols used in Lamp Ordering Abbreviation are as follows: CW—Cool White, CWX—DeLuxe Cool White, WW—Warm White, WWX—DeLuxe Warm White, D—Daylight, W—White, G—Green, IW—Industrial White, BW—Blue White.

GENERAL LINE FLUORESCENT LAMPS

Miniature Bipin Bases

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
4	6	T-5	5/8	F4T5/CW	24	\$1.52
4	6	T-5	5/8	F4T5/D	24	1.62
4	6	T-5	5/8	F4T5/W	24	1.62
6	9	T-5	5/8	F6T5/CW	24	1.52
6	9	T-5	5/8	F6T5/CWX	24	1.62
6	9	T-5	5/8	F6T5/D	24	1.62
6	9	T-5	5/8	F6T5/W	24	1.62
8	12	T-5	5/8	F8T5/CW	24	1.52
8	12	T-5	5/8	F8T5/WW	24	1.62
8	12	T-5	5/8	F8T5/D	24	1.62
8	12	T-5	5/8	F8T5/W	24	1.62
8	12	T-5	5/8	F8T5/G	24	2.24
13	21	T-5	5/8	F13T5/CW	24	1.67
13	21	T-5	5/8	F13T5/WW	24	1.76
13	21	T-5	5/8	F13T5/D	24	1.76

RAPID START FLUORESCENT LAMPS

(No starters used)

Medium Bipin Bases

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
30	36	T-12	1 1/2	F30T12/CW/RS	24	\$1.57
30	36	T-12	1 1/2	F30T12/CWX/RS	24	1.67
30	36	T-12	1 1/2	F30T12/WW/RS	24	1.67
30	36	T-12	1 1/2	F30T12/WWX/RS	24	1.67

HIGH OUTPUT FLUORESCENT LAMPS

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
35	24	T-12	1 1/2	F24T12/CW/HO	24	\$2.62
50	36	T-12	1 1/2	F36T12/CW/HO	24	2.62
60	48	T-12	1 1/2	F48T12/CW/HO	24	2.15
60	48	T-12	1 1/2	F48T12/D/HO	24	2.40
75	60	T-12	1 1/2	F60T12/CW/HO	24	2.75
75	60	T-12	1 1/2	F60T12/D/HO	24	3.00
80	64	T-12	1 1/2	F64T12/CW/HO	24	2.75
80	64	T-12	1 1/2	F64T12/D/HO	24	3.00
85	72	T-12	1 1/2	F72T12/CW/HO	12	2.50
85	72	T-12	1 1/2	F72T12/D/HO	12	2.75
95	84	T-12	1 1/2	F84T12/CW/HO	12	2.75
95	84	T-12	1 1/2	F84T12/D/HO	12	3.00
110	96	T-12	1 1/2	F96T12/CW/HO	12	2.50
110	96	T-12	1 1/2	F96T12 CWX/HO	12	2.75
110	96	T-12	1 1/2	F96T12/WW/HO	12	2.75
110	96	T-12	1 1/2	F96T12/WWX/HO	12	2.75
110	96	T-12	1 1/2	F96T12/D/HO	12	2.75
110	96	T-12	1 1/2	F96T12/W/HO	12	2.75

Mogul Bipin Base

100	72	T-12	1 1/2	F100T12/CW/HO	12	4.29
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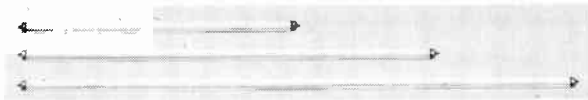
BLACK LIGHT FLUORESCENT LAMPS

6	9	T-5	5/8	F6T5/BL	24	\$2.35
6	9	T-5	5/8	F6T5/BLB*	24	3.10
15	18	T-8	1	F15T8/BL	24	1.85
15	18	T-8	1	F15T8/BLB*	24	3.85
20	24	T-12	1 1/2	F20T12/BL	24	1.85
20	24	T-12	1 1/2	F20T12/BLB*	24	5.80
40	48	T-12	1 1/2	F40BL	24	2.00
40	48	T-12	1 1/2	F40BLB*	24	8.00

* Integral filter.

GENERAL ELECTRIC LAMPS

SLIMLINE FLUORESCENT LAMPS
Instant Start — No Starters Used —
Single Pin Base



Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
20	24	T-12	1 1/2	F24T12/CW	24	\$2.38
30	36	T-12	1 1/2	F36T12/CW	24	2.38
25	42	T-6	3/4	F42T6/CW	24	2.86
25	42	T-6	3/4	F42T6/CWX	24	3.05
25	42	T-6	3/4	F42T6/WW	24	3.05
25	42	T-6	3/4	F42T6/WWX	24	3.05
25	42	T-6	3/4	F42T6/D	24	3.05
25	42	T-6	3/4	F42T6/W	24	3.05
40	48	T-12	1	F48T12/CW	24	1.52
40	48	T-12	1	F48T12/CWX	24	1.67
40	48	T-12	1	F48T12/WW	24	1.67
40	48	T-12	1	F48T12/D	24	1.67
40	48	T-12	1	F48T12/W	24	1.67
40	64	T-6	3/4	F64T6/CW	24	3.05
40	64	T-6	3/4	F64T6/CWX	24	3.24
40	64	T-6	3/4	F64T6/WW	24	3.24
40	64	T-6	3/4	F64T6/WWX	24	3.24
40	64	T-6	3/4	F64T6/D	24	3.24
40	64	T-6	3/4	F64T6/W	24	3.24
50	64	T-12	1 1/2	F64T12/CW	24	3.57
35	72	T-8	1	F72T8/CW	24	3.10
35	72	T-8	1	F72T8/CWX	24	3.29
35	72	T-8	1	F72T8/WW	24	3.29
35	72	T-8	1	F72T8/WWX	24	3.29
35	72	T-8	1	F72T8/D	24	3.29
35	72	T-8	1	F72T8/W	24	3.29
55	72	T-12	1 1/2	F72T12/CW	12	1.85
55	72	T-12	1 1/2	F72T12/CWX	12	2.05
55	72	T-12	1 1/2	F72T12/WW	12	2.05
55	72	T-12	1 1/2	F72T12/WWX	12	2.05
55	72	T-12	1 1/2	F72T12/D	12	2.05
55	72	T-12	1 1/2	F72T12/W	12	2.05
50	96	T-8	1	F96T8/CW	24	3.14
50	96	T-8	1	F96T8/CWX	24	3.34
50	96	T-8	1	F96T8/WW	24	3.34
50	96	T-8	1	F96T8/WWX	24	3.34
50	96	T-8	1	F96T8/D	24	3.34
50	96	T-8	1	F96T8/W	24	3.34
75	96	T-12	1 1/2	F96T12/CW	12	2.13
75	96	T-12	1 1/2	F96T12/CWX	12	2.35
75	96	T-12	1 1/2	F96T12/WW	12	2.35
75	96	T-12	1 1/2	F96T12/WWX	12	2.35
75	96	T-12	1 1/2	F96T12/D	12	2.35
75	96	T-12	1 1/2	F96T12/W	12	2.35

ALL-WEATHER FLUORESCENT LAMPS

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
150	72	T-10	1 1/4	F48T10/CW	12	4.10
150	72	T-10	1 1/4	F48T10J/CW*	8	5.75
200	96	T-10	1 1/4	F72T10/CW	12	4.75
200	96	T-10	1 1/4	F72T10J/CW*	8	6.25
105	48	T-10	1 1/4	F96T10/CW	24	\$3.65
105	48	T-10	1 1/4	F96T10J/CW*	12	5.30

* Has 1 3/4" diam/ jacket.

1500ma FLUORESCENT LAMPS

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
110	48	T-12	1 1/2	F48T12/CW/1500	24	\$3.45
160	72	T-12	1 1/2	F72T12/CW/1500	12	4.25
215	96	T-12	1 1/2	F96T12/CW/1500	12	5.00

RF FLUORESCENT LAMPS

2 and 3 prong Base

Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
85	58	T-10	1 1/4	F85T10/IW	24	\$4.53
85	58	T-10	1 1/4	F85T10/BW	24	4.77

POWER GROOVE® FLUORESCENT LAMPS
Recessed Double Contact Base



Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
110	48	PG-17	2 1/8	F48PG17/CW	12	\$5.25
160	72	PG-17	2 1/8	F72PG17/CW	8	5.35
215	96	PG-17	2 1/8	F96PG17/CW	8	5.45

® Trademark of General Electric Co.

CIRCLINE FLUORESCENT LAMPS

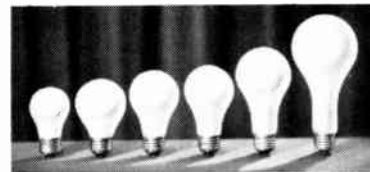
Watts	Length (in.)	Bulb Size	Diam. (in.)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
22	8 1/4	T-9	1 1/8	FC8T9/CW	12	\$3.34
22	8 1/4	T-9	1 1/8	FC8T9/WWX	12	3.53
32	12	T-10	1 1/4	FC12T10/CW	12	3.34
32	12	T-10	1 1/4	FC12T10/WWX	12	3.53
40	16	T-10	1 1/4	FC16T10/CW	12	4.29
40	16	T-10	1 1/4	FC16T10/WWX	12	4.48

GENERAL SERVICE LAMPS

115, 120 and 125 Volts

Inside Frosted

For most general lighting purposes. Inside Frosted diffuses the light and helps eliminate shadows and glare. Light output is practically the same as for clear lamps. Outside surface is smooth and easily cleaned.



Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
15	A-15	Med.	3 1/2	15A15	120	\$0.22
25	A-19	Med.	3 7/8	25A	120	.24
40	A-19	Med.	4 1/4	40A	120	.24
50	A-19	Med.	4	50A	120	.24
60	A-19	Med.	4	60A	120	.24
75	A-19	Med.	4	75A	120	.24
100	A-19	Med.	6	100A	120	.24
150	A-23	Med.	6	150A	60	.31
200	PS-30	Med.	8	200/IF	60	.46
200	A-23	Med.	6	200A	60	.36
300	PS-35	Moq.	9	300/IF	24	.71
300	PS-25	Med.	6	300M/IF	60	.52
500	PS-35	Moq.	9	500/IF	24	1.10
750	PS-52	Moq.	13	750/IF	12	2.81
1000	PS-52	Moq.	13	1000/IF	12	3.00

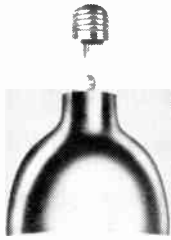
Clear Lamps

Used in enclosed diffusing equipment or shielded reflectors which protect the eyes from glare.

Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
150	A-23	Med.	6	150A/CL	60	\$0.34
200	PS-30	Med.	8	200	60	.46
200	A-23	Med.	6	200A/CL	60	.36
300	PS-35	Moq.	9 3/8	300	24	.71
300	PS-25	Med.	6	300M	60	.52
500	PS-35	Moq.	9 3/8	500	24	\$1.05
750	PS-52	Moq.	13	750	12	2.67
1000	PS-52	Moq.	13	1000	12	2.86
1500	PS-52	Moq.	13	1500	12	4.29

GENERAL ELECTRIC LAMPS

REFLECTOR LAMPS
For General Lighting

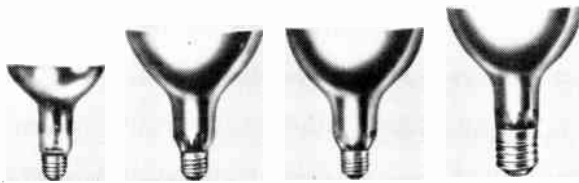


R-52 reflector lamps are designed for general lighting applications, particularly where dirt conditions are severe. Dust and dirt collection on the sides of the bulb do not affect light output since the metallic reflector coating is inside the lamp.

The 1M/RB52 has a double contour reflector design which permits using 1000 watts in the R52 bulb size. All R52 lamps require a shield to protect lamps from moisture or physical contact.

Lamp Ordering Abbrev.	Watts	Bulb	Volts	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Life Hrs.	Each
500R52	500	R52	230,250		12	2000	\$4.80
500R52	500	R52	115,120,125		12	2000	5.65
750R52	750	R52	115,120,125		12	2000	5.65
750R52	750	R52	230,250,260		12	2000	6.65
1M/R52	1000	R52	115,120,125		12	2000	12.29
1M/RB52	1000	RB52	115,120,125		12	2000	6.85

REFLECTOR LAMPS
120 Volts



75R30/SP 150R/SP 300R/FL/1 300R/3FL

Reflector Lamps are self-contained spot and flood lamps employing a silver reflecting surface. Some are made of ordinary soft glass, others of heat-resistant glass for better performance with high wattage filaments and for out-door use. Even heat resistant bulbs should be protected from falling moisture when used outdoors.

Watts	Bulb	Base	Description	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
30	R-20	Med.	Light I.F. 115-125 volts	30R20	60	\$1.38
50	R-20	Med.	Light I.F. 115-125 volts	50R20	60	1.38
75	R-30	Med.	Spot-Light I.F.	75R30/SP	60	1.11
75	R-30	Med.	Flood-Inside Frost	75R30/FL	60	1.11
150	R-40	Med.	Spot-Light I.F.	150R/SP	24	1.11
150	R-40	Med.	Flood-Inside Frost	150R/FL	24	1.11
300	R-40	Med.	Spot-Light I.F.	300R/SP	24	1.90
300	R-40	Med.	Flood-Inside Frost	300R/FL	24	1.90
300	R-40	Med.	Spot-Light I.F. **	300R/SP/1	24	3.65
300	R-40	Med.	Flood-Inside Frost **	300R/FL/1	24	3.65
300	R-40	Mog.	Spot-Light I.F. **	300R/3SP	24	3.95
300	R-40	Mog.	Flood-Inside Frost **	300R/3FL	24	3.95
500	R-40	Mog.	Spot-Light I.F. **	500R/3SP	24	4.75
500	R-40	Mog.	Flood-Inside Frost **	500R/3FL	24	4.75

** Heat Resistant Glass Bulb

REFLECTOR COLOR LAMPS
115-125 Volts

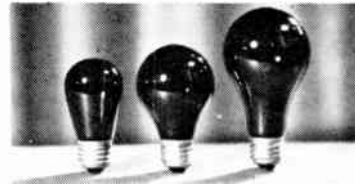
Watts	Bulb	Base	Description	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
150	R-40	Med.	Blue White	150R/BW	24	\$1.86
150	R-40	Med.	Blue	150R/B	24	1.86
150	R-40	Med.	Green	150R/G	24	1.86
150	R-40	Med.	Pink	150R/PK	24	1.86
150	R-40	Med.	Red	150R/R	24	1.86
150	R-40	Med.	Yellow	150R/Y	24	1.86

THREE-LITE LAMPS
120 Volts

Watts	Bulb	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
30					
70	A-21 I.F.	Med.	30/100	120	\$0.52
100	A-21 White	Med.	30/100/W	120	.56
50					
100	A-23 I.F.	Med.	50/150A	60	.56
150	A-23 White	Med.	50/150A/W	60	.62
50					
100	PS-25 I.F.	Mog.	50/150	60	.71
150					
50					
100	R-40 White	Mog.	50/150R/W	24	1.23
150					
50					
200	PS-25 White	Med.	50/250M/W	60	.66
250					
100					
200	PS-25 White	Mog.	100/300	60	.94
300					



NATURAL COLORED LAMPS
Medium Screw Base
115-125 Volts



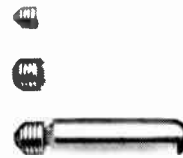
10S14/NA 25A/NA 40A/NA

The four lamps in natural colored, clear glass bulbs cover a large percentage of present demands. Prices are for the manufacturer's standard glass only.

Watts	Bulb	Order Abbrev. (Ex. Volts)	Std. Pkg. Qty.	Each
10	S-14	Amber Green, Blue or Ruby	10S14 N*	120 \$2.57
25	A-19	Amber Green, Blue or Ruby	25A/N*	120 2.76
40	A-21	Amber Green, Blue or Ruby	40A/N*	120 2.86
60	A-21	Amber Green, Blue or Ruby	60A21/N*	120 2.86

* Substitute color symbol in place of * in ordering abbreviation. Thus: 10S14/NR is the ruby color.

TUBULAR LAMPS
120 Volts



These low-wattage tubular lamps are for showcase lighting, in shallow-depth displays, and in small trough-like reflectors. The SHOWCASE REFLECTOR lamps have a built-in reflecting surface and a spring-contact base for positioning.

Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
25	T-6½	Clear	Inter.	25T6½	60	\$0.57
25	T-6½	I.F.	Inter.	25T6½/IF	60	.67
25	T-10	Clear	Med.	25T10	60	.33
25	T-10	I.F.	Med.	25T10/IF	60	.37
25	T-10	Refl.(Lt.I.F.)	Med.	25T10/RFL	60	2.14
40	T-8	Clear	Med.	40T8	24	1.24
40	T-8	I.F.	Med.	40T8/IF	24	1.38
40	T-10	Clear	Med.	40T10	60	.33
40	T-10	I.F.	Med.	40T10/IF	60	.37
40	T-10	Refl.(Lt.I.F.)	Med.	40T10/RFL	60	1.91

GENERAL ELECTRIC LAMPS

BLACK LIGHT LAMPS

Mercury Lamps. Four types of mercury lamps are commonly used for black light effects: the BL4 uses a red-purple glass filter for the outer bulb and the H100-SP4 Spot (H100-FL4 flood); H250-A5 and H400-E1 require separate filters.

Filament Lamp. A 250-watt filament lamp in a red-purple bulb is available for black light effects. Known as the Purple X lamp, it is designed for intermittent service only.

Fluorescent Lamps. Black light fluorescent lamps contain a special phosphor whose radiation peaks in the near-ultra-violet region of the spectrum. Lamps often used with filters to reduce visible light. Available with BLB glass for use without filters.

Watts	Bulb	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
Mercury					
100	T-16	Admed	H100BL38-4	6	\$20.95
100	PAR-38	Admed	H100PSP44-4	12	16.60
100	PAR-38	Skrid	H100PFL44-4	12	16.60
250	E-28	Mog.	H250A37-5	12	11.90
400	E-37	Mog.	H400A33-1	6	11.10
Filament					
250	A-21	Med.	250A21/60	120	3.10
Fluorescent					
15	T-8	Med. Bipin	F15T8/BL	24	1.85
30	T-8	Med. Bipin	F30T8/BL	24	2.05
40	T-12	Med. Bipin	F40BL	24	2.00
40	T-12	Med. Bipin	F40BLB	24	8.00
25	T-6	Single pin	F42T6/BL	24	4.00
40	T-6	Single pin	F64T6/BL	24	4.70
50	T-8	Single pin	F96T8/BL	6	4.80

INFRARED INDUSTRIAL LAMPS
115-125 Volts (Design Volts 115)

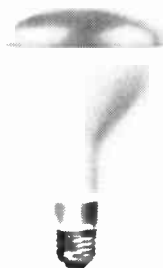


Watts	Lamp Ordering Abbreviation	Bulb	Base	Design Volts	Light Center Length, Inches	Max. Overall Length, Inches	Each
125	125R40	R-40	Medium Skt.	115	—	7 1/4	\$1.45
250	250R40/1	R-40	Med. Screw	115	—	6 1/2	1.10
250	250R40/4	R-40	Medium Skt.	115	—	7 1/4	1.50
375	375R40	R-40	Medium Skt.	115	—	7 1/4	1.65

Lamps Requiring Auxiliary Reflectors

125	125G30	G-30	Medium Skt.	115	5	7 1/8	.95
250	250G30	G-30	Medium Skt.	115	5	7 1/4	1.00
375	375G30	G-30	Medium Skt.	115	5	7 1/4	1.50
500	500T40/3	T-40	Medium Bipost	115	3 1/16	7 1/4	13.50
1000	1MT40/3	T-40	Medium Bipost	115	3 1/16	7 1/4	13.75

SUNLAMPS

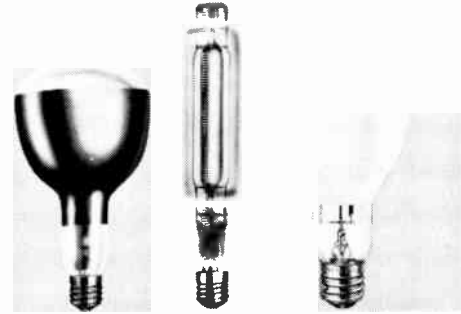


Used in homes, offices and solaria.

●RS — Medium Screw Base. 275 watts. Is in a bulb with self-contained reflector and operates directly from 50-60 cycle, 110-125 volt a-c current with no auxiliary ballast required.

R-40, Inside Frosted bulb. Standard package, 6. Each \$9.95

MERCURY LAMPS



G-E Mercury lamps have high efficiency and long life and are applicable for general lighting in many industrial areas and for street and flood lighting. They are intended for use in conventional high bay lighting units. Auxiliary equipment required to operate.

Watts	Bulb	Description	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
100	E-23 1/2	Street Lighting	H100A38-4	24	\$8.80
100	E-23 1/2	*General and Street Lighting	H100C38-4	24	9.70
100	E-23 1/2	General and Street Lighting	H100W38-4	24	9.70
175	E-28	General and Street Lighting	H175A39-22	12	8.80
175	E-28	*General and Street Lighting	H175C39-22	12	9.70
175	E-28	General and Street Lighting	H175W39-22	12	9.70
400	E-37	General and Street Lighting	H400A33-1	6	11.10
400	E-37	*General and Street Lighting	H400C33-1	6	12.55
400	E-37	General and Street Lighting	H400W33-1	6	12.40
400	R-52	Reflector—High Bay	H400R33-1	6	17.30
400	R-52	*Reflector—High Bay	H400RC33-1	6	18.60
400	R-52	Reflector—High Bay	H400RW33-1	6	18.00
1000	BT-56	General Lighting	H1000A34-12	6	25.40
1000	BT-56	*General Lighting	H1000C34-12	6	28.85
1000	BT-56	General Lighting	H1000W34-12	6	27.00
1000	BT-56	General and Street Lighting	H1000A38-15	6	24.40
1000	BT-56	*General and Street Lighting	H1000C38-15	6	27.45
1000	BT-56	General and Street Lighting	H1000W38-15	6	25.75
3000	T-9 1/2	High Bay—Industrial	H3000A9	1	80.00

* Color Improved lamps for better color balance

50	E-17	General Lighting—DeLux White	H50DX46	24	\$9.55
75	E-21	General Lighting—DeLux White	H75DX43	24	9.55
100	A-23	General Lighting—DeLux White	H100DX33-4/A23	24	11.55
100	E-23 1/2	Gen. and Street Ltg.—DeLux White	H100DX38-4	24	9.70
175	E-28	Gen. and Street Ltg.—DeLux White	H175DX39-22	12	9.70
175	R-40	Reflector—DeLux White	H175RDXFL39-22	12	12.95
250	E-28	Gen. and Street Ltg.—DeLux White	H250DX37-5	12	13.10
400	E-37	Gen. and Street Ltg.—DeLux White	H400DX33-1	6	12.55
400	BT-37	Gen. and Street Ltg.—DeLux White	H400RDX33-1/BT	6	12.65
400	R-52	Reflector—DeLux White	H400RDX33-1	6	18.60
700	BT-46	Gen. and Street Ltg.—DeLux White	H700DX35-18	6	25.10
1000	BT-56	General Lighting—DeLux White	H1000DX34-12	6	29.85
1000	BT-56	General Lighting—DeLux White	H1000DX36-15	6	28.45
1000	R-80	Reflector Flood—DeLux White	H1000RDXFL36-15	1	58.85

HIGH VOLTAGE LAMPS

Durability and efficiency are less than with 110-125 volt lamps, but are lamps designed for use in the few locations where only the higher voltage is available. Some rough service lamps and R-52 and R-10 lamps also are available in 230 and 250-volt designs. Lamps listed below also available in clear bulbs.

Medium Screw Base

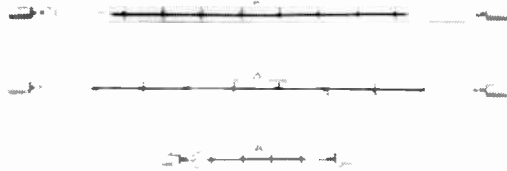
25	A-19	Inside Frosted	25A	120	\$0.38
50	A-19	Inside Frosted	50A	120	.36
100	A-21	Inside Frosted	100A	120	.43
200	PS-30	Inside Frosted	200/IF	60	.63

Mogul Screw Base

300	PS-35	Inside Frosted	300	24	1.19
500	PS-40	Inside Frosted	500	24	1.52
750	PS-52	Inside Frosted	750	12	3.81
1000	PS-52	Inside Frosted	1000	12	3.81

GENERAL ELECTRIC LAMPS

QUARTZLINE LAMPS
Recessed Single Contact Base

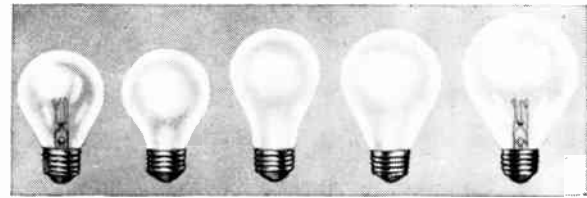


Watts	Volts	Lamp Ordering Abbreviation	Bulb	Lighted Length (Ins.)	Max. Overall Length (Ins.)	Std. Pkg. Qty.	Each
300	120	Q300T3/CL	T-3	2 ⁹ / ₁₆	4 ¹ / ₁₆	12	\$11.05
400	120	Q400T4/CL	T-4	3 ¹ / ₂	3 ¹ / ₂	12	7.50
500	120	Q500T3	T-3	2 ³ / ₄	4 ¹ / ₁₆	12	11.15
500	120	Q500T3/CL	T-3	2 ³ / ₄	4 ¹ / ₁₆	12	10.10
500	120	Q500T3/CL/6	T-3	2 ³ / ₄	4 ¹ / ₁₆	12	11.90
500	120	Q500PAR56MFL	PAR-56	.....	5	6	16.95
1000	120	Q1000R60/FL	R-60	.....	10 ¹ / ₂	6	29.75
1500	208	Q1500T3	T-3	6 ³ / ₄	10 ¹ / ₁₆	6	17.85
1500	220	Q1500T3	T-3	6 ³ / ₄	10 ¹ / ₁₆	6	17.85
1500	240	Q1500T3	T-3	6 ³ / ₄	10 ¹ / ₁₆	6	17.85
1500	277	Q1500T3	T-3	6 ³ / ₄	10 ¹ / ₁₆	6	17.85

EXTENDED SERVICE LAMPS
2500 Hours Life

Watts	Bulb	Base	Finish	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
25	A-19	Med.	I.F.	25A/99	120	\$0.35
40	A-19	Med.	I.F.	40A/99	120	.35
60	A-19	Med.	I.F.	60A/99	120	.35
100	A-19	Med.	I.F.	100A/99	120	.37
150	PS-25	Med.	I.F.	150/99	60	.49
150	PS-25	Med.	Clear	150/99CL	60	.51
150	A-23	Med.	I.F.	150A/99	60	.49
150	A-23	Med.	Clear	150A/99CL	60	.51
200	PS-30	Med.	Clear	200/99	60	.63
200	PS-30	Med.	I.F.	200/99 IF	60	.63
200	A-23	Med.	I.F.	200A/99	60	.63
200	A-23	Med.	Clear	200A/99CL	60	.63
300	PS-35	Mog.	Clear	300/99	24	.95
300	PS-35	Mog.	I.F.	300/99 IF	24	.95
300	PS-30	Med.	Clear	300M/99	60	.76
300	PS-30	Med.	I.F.	300M/99 IF	60	.76
500	PS-40	Mog.	Clear	500/99	24	1.43
500	PS-40	Mog.	I.F.	500/99 IF	24	1.52
750	PS-52	Mog.	Clear	750/99	6	3.86
1000	PS-52	Mog.	Clear	1000/99	6	4.15

STREET RAILWAY LAMPS



Headlights

Designed for operation in series with four lamps of corresponding wattage and voltage used elsewhere in the car.

Lamp Ordering Abbrev.	Watts	Bulb	Base	Each
36A/Ryh	36	A-19	Med.Std.	\$0.95
56P25	56	P-25	Med.Std.	1.38

Car Lighting — 5-in-Series

Lamps are of the vacuum type. The 36-watt and 56-watt lamps provide more satisfactory performance when operated in the vertical base-up position.

36A/Ry	36	A-21	Med.Std.	.38
56A21	56	A-21	Med.Std.	.38

Car Lighting — Cutout Lamps, 30-Volt

Lamps are of the gas-filled type and are provided with a cut-out feature which short circuits the individual lamp upon burnout.

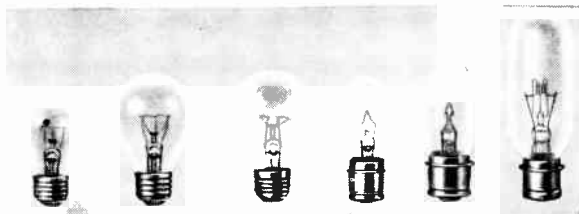
1A/A19	1 amp.	A-19	Med. 30	\$0.50
1.6A/A21	1.6 amp.	A-21	Med. 30	.55

RAILWAY SIGNAL LIGHTS

Watts	Volts	Bulb	Ordering Abbrev.	Std. Pkg. Qty.	Each
13	10	S-11	13/3¹/₂S11/95	120	\$1.91
3.5					
18	10	A-15	18A15/3	120	1.62
18		S-11	18S11/15C	120	1.43
18	10	A15	18/3.5A15.5	120	1.86
3.5					
18	10	A-15	18/3.5A15/7	120	1.86
3.5					
18	8,10	S-11	18/3¹/₂S11SC	120	1.91
3.5					
25	10	S-11	25S11/45C	120	1.48

AVIATION LAMPS

Aircraft Marker Lamps (Clear)



15A15/CL 25A/CL 50A/CL/VS 6.6A/T10P 40T10P 6.6A/T14P

Watts	Bulb	Base	Volts	Lamp Ordering Abbrev.	Each
† 45	T-10	Med. Pf.	6.6A	6.6A/T10P	\$1.38
† 200	T-14	Med. Pf.	6.6A	6.6A/T14P	4.38
* 15	A-15	Med.	Std.	15A15/CL	.29
† 25	A-19	Med.	Std.	25A/CL	.30
† 40	T-10	Med Pf.	Std.	40T10P	2.00
o 50	A-19	Med.	Std.	50A/CL/VS	.30

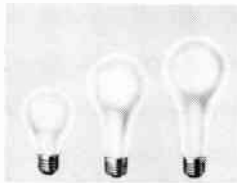
† Marker
* Wind Direction
‡ Boundary Marker
o Obs. Marker.

Effective functioning of aviation lighting equipment requires accurate positioning of the light source. Bi-post and prefocus bases provide a high degree of accuracy.

Note: For low intensity, semi-flush Airport Runway Marker lights, about 2-in. high, use A-21 lamps. For medium intensity elevated lights, about 2-ft. high, use T-10 lamps. For higher intensity elevated lights, on runways where instrument landings are made, use 6.6A/T14P lamps.

GENERAL ELECTRIC LAMPS

**ROUGH SERVICE AND VIBRATION LAMPS
120 Volts**



50A/RS 100A/RS 150/RS

Rough Service lamp withstands shock and bumps, such as received when used as a portable light on extension cord. Some Rough Service Lamps available in 230 and 250 volts.

Watts	Bulb	Finish	Base	Length, Inches	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
50	A-19	I. F.	Medium	3 7/8	50A/RS	120	\$0.43
50	A-21	I. F.	Medium	4 3/8	75A21/RS	120	.51
100	A-21	I. F.	Medium	5 1/4	100A/RS	120	.43
150	PS-25	I. F.	Medium	6 1/16	150/RS	60	.81
200	PS-30	I. F.	Medium	8 1/16	200PS30/23	60	.81
200	PS-30	Clear	Medium	8 1/16	200PS30/24	60	.81
300	PS-35	Clear	Mogul	9 3/4	300/RS	24	1.25
500	PS-40	Clear	Mogul	9 3/4	500/RS	24	1.57

The Vibration lamp is designed to withstand high frequency vibration, as from high-speed machinery.

50	A-19	I. F.	Medium	3 3/8	50A/VS	120	.30
100	A-23	I. F.	Medium	5 1/16	100A23/28	120	.71
150	PS-25	I. F.	Medium	6 1/16	150/VS	60	.81

**PROJECTOR LAMPS
120 Volts**



Self-contained spot and flood lamps made of pressed heat-resistant glass. They may be used outdoors, though the higher wattage lamps should be protected from moisture. With their excellent control of light they are also used in many indoor applications such as display lighting.

Watts	Bulb	Base	Description	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
75	PAR-38	Medium Skt.	Flood	75PAR/FL	12	\$1.98
150	PAR-38	Medium Skt.	Spot	150PAR/SP	12	1.98
150	PAR-38	Medium Skt.	Flood	150PAR/FL	12	1.98
150	PAR-38	Side Prong	Spot	150PAR/3SP	12	2.30
150	PAR-38	Side Prong	Flood	150PAR/3FL	12	2.30
200	PAR-46	Side Prong	Narrow Spot	200PAR46/3NSP	12	5.00
200	PAR-46	Side Prong	Med. Flood	200PAR46/3MFL	12	5.00
300	PAR-56	Mog. End Prong	Narrow Spot	300PAR56/NSP	12	6.10
300	PAR-56	Mog. End Prong	Med. Flood	300PAR56/MFL	12	6.10
300	PAR-56	Mog. End Prong	Wide Flood	300PAR56/WFL	12	6.10
500	PAR-64	Mog. End Prong	Narrow Spot	500PAR64/NSP	8	12.40
500	PAR-64	Mog. End Prong	Med. Flood	500PAR64/MFL	8	12.40
500	PAR-64	Mog. End Prong	Wide Flood	500PAR64/WFL	8	12.40

**DICHRO COLOR PROJECTION LAMPS
115-125 Volts**

Watts	Bulb	Base	Description	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
150	PAR-38	Medium Skt.	Amber Spot	150PAR/SP/A	12	\$4.95
150	PAR-38	Medium Skt.	Blue Spot	150PAR/SP/B	12	4.95
150	PAR-38	Medium Skt.	Green Spot	150PAR/SP/G	12	4.95
150	PAR-38	Medium Skt.	Red Spot	150PAR/SP/R	12	4.95
150	PAR-38	Medium Skt.	Yellow Spot	150PAR/SP/Y	12	4.95

LUCALOX® LAMPS

Watts	Bulb	Lamp Ordering Abbreviation	Light Center Length, (Inches)	Maximum Overall Length, (Inches)	Std. Pkg. Qty.	Each
400	E-18	LU-400	5 3/4	9 1/4	6	\$45.00
400	E-18	LU-400/BD	5 3/4	9 1/4	6	45.00
400	E-18	LU-400/BU	5 3/4	9 1/4	6	45.00

MULTI-VAPOR LAMPS

400	E-37	MV-400/BU	7	11 1/16	6	23.25
400	E-37	MV-400/BD	7	11 1/16	6	23.25
1000	BT-56	MV-1000/BU	9 3/4	15 1/16	6	58.20
1000	BT-56	MV-1000/BD	9 3/4	15 1/16	6	58.20

SEALED BEAM LAMPS



General Electric Sealed beam headlamps are of rugged, all-glass construction — they do not grow dim! Same construction used in General Electric fog lamps.

G-E Lamp Number	Watts	Volts	Bulb	Service	Per Unit Pkg.
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3 Contact Lugs

6006	50-40	6	PAR-56	Aimer Headlamp	\$2.05
6012	50-40	12	PAR-56	Aimer Headlamp	2.05

Screw Terminal Base

4012	35	6	PAR-46	Clear Fog	2.60
4012A	35	6	PAR-46	Amber Fog	3.65
4013	25	6	PAR-46	Tractor	2.50
4015	35	6	PAR-36	Clear Fog	2.45
4015A	35	6	PAR-36	Amber Fog	2.70
4412	35	12	PAR-46	Clear Fog	2.45
4412A	35	12	PAR-46	Amber Fog	2.90
4435	30	12	PAR-46	Clear Spot	3.50
4510	25	6	PAR-36	Clear Utility	2.45
4515	30	6	PAR-36	Clear Spot	2.55
4516	30	6	PAR-36	Clear Hand Spot	2.45
4535	30	6	PAR-46	Clear Spot	2.80

**PHOTOGRAPHIC ENLARGING LAMPS
115-125 Volts**

Order Number	Watts	Bulb and Finish	Base	Life Hours	Case Qty.	Each
PH/111	75	S-11 White	S. C. Bay.	25	120	\$1.20
PH/111A*	75	S-11 White	S. C. Bay.	25	120	1.20
PH/211	75	A-21 White	Med.	100	60	.60
PH/212	150	A-21 White	Med.	150	60	.65
PH/213	250	A-21 White	Med.	3	60	.70
PH/300	150	PS-30 White	Med.	100	60	1.65
PH/301	300	PS-30 White	Med.	100	60	1.75
PH/302	500	PS-30 White	Med.	100	60	1.75

* 125 volts only

FLASHTUBE MODELING LAMPS

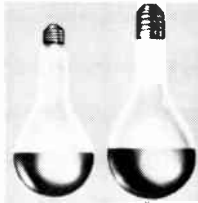
Lamp Code	Watts	Description	Std. Pkg. Qty.	Each
EAD	60	Use only with FT-306B or FT-403	24	\$2.10
EAJ	35-25	Two filaments—use only with FT-306B	24	1.85
EAK	100	Use only with FT-503	24	3.50

GENERAL ELECTRIC LAMPS

SILVERED BOWL LAMPS

120 Volts

Used with indirect lighting equipment. Have inside frosted bulb with coating of mirrored silver on the bowl.



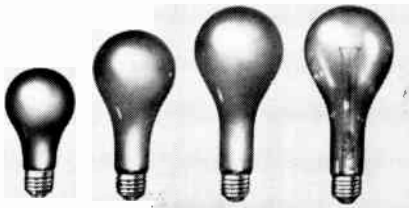
200/SB1F 300/SB1F

Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
60	A-19	Med.	4	60A/SB	120	\$0.52
100	A-21	Med.	5 1/4	100A/1SB1F	120	.52
150	PS-25	Med.	6	150/SB	60	.76
200	PS-30	Med.	8	200/SB1F	60	.95
300	PS-35	Moq.	9 3/8	300/SB1F	24	1.48
500	PS-40	Moq.	9 3/4	500/SB1F	24	2.29
750	PS-52	Moq.	13	750/SB1F	12	5.24
1000	PS-52	Moq.	13	1000/SB1F	12	5.43

DAYLIGHT LAMPS

115-125 Volts

Produce light approximating daylight. Used where color discernment is important.



Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
60	A-19	Med.	4	60A/D	120	\$0.37
100	A-23	Med.	5	100A/D	120	.50
150	PS-25	Med.	6	150/D	60	.57
200	PS-30	Med.	8	200/D	60	.91

DELUXE WHITE LAMPS

Has an inside silica coating which gives almost perfect light diffusion, are clean and white in appearance—ideal for reading lamps. Also furnished in Three-lite types.



Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Standard Package Quantity	Each
60	A-19	Med.	4 7/16	60A/W	120	\$0.24
100	A-21	Med.	5 5/16	100A/W	120	.24

COLORAMIC LAMPS

115-125 Volts

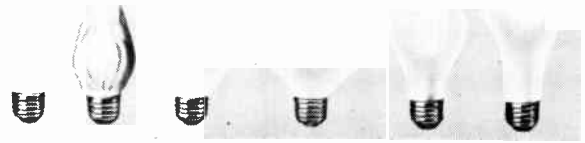
Watts	Bulb	Base	Max. Overall Length (Inches)	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
25	F-15	Med.	4 3/8	25F/DPK	120	\$0.39
40	A-19	Med.	4 1/4	40A/DPK	120	.33
50	GA-25	Med.	4 7/16	50GA/DPK	60	.56
60	A-19	Med.	4 7/16	60A/DPK	120	.33
75	A-19	Med.	4 7/16	75A/DPK	120	.33
100	A-21	Med.	5 1/4	100A/DPK	120	.33
50						
100						
150	A-23	3c.Med.	5 5/16	50/150A/DPK	60	.71
100						
200						
300	PS-25	3c.Mog.	6 11/16	100/300/DPK	60	1.15

LUMILINE LAMPS

Watts	Bulb	Finish	Base	Lamp Ordering Abbreviation	Std. Pkg. Qty.	Each
30	T-8	Clear		L30	24	\$2.67
30	T-8	Inside Frosted		L30/IF	24	2.67
30	T-8	White		L30/W	24	2.67
40	T-8	Clear		L40	24	2.29
40	T-8	Inside Frosted		L40/IF	24	2.29
40	T-8	White		L40/W	24	2.29
60	T-8	Clear		L60	24	2.48
60	T-8	Inside Frosted		L60/IF	24	2.48
60	T-8	White		L60/W	24	2.48

DECORATIVE LAMPS

115-125 Volts

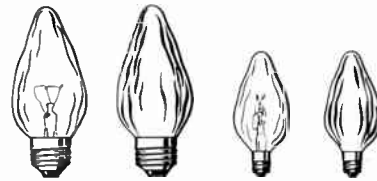


For interior applications in theaters, homes, restaurants, public buildings. Outside coated lamps are not recommended for outdoor use.

Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
7 1/2	S-11	Clear	Med.	7 1/2S	120	\$0.24
7 1/2	S-11	Orange	Med.	7 1/2S/CO	120	.28
7 1/2	S-11	Red	Med.	7 1/2S/CR	120	.28
7 1/2	S-11	White	Med.	7 1/2S/CW	120	.34
15	F-10	Clear	Cand.	15FC	60	.39
15	F-10	Flametint	Cand.	15FC/FT	60	.39
15	F-10	Ivory	Cand.	15FC/V	60	.39
15	F-10	White	Cand.	15FC/W	60	.39
25	A-19	Colors	Med.	25A/*	120	.35
25	A-19	White	Med.	25A/W	120	.35
25	F-15	Flametint	Med.	25F/FT	120	.39
25	F-15	Ivory	Med.	25F/V	120	.39
25	F-15	White	Med.	25F/W	120	.39
25	G-16 1/2	Clear	Cand.	25G16 1/2C	60	.67
25	G-16 1/2	White	Cand.	25G16 1/2C/W	60	.71
25	G-18 1/2	White	Cand.	25G18 1/2/W	120	.57
25	G-25	White	Med.	25G25/W	60	.57
40	A-21	Colors	Med.	40A/*	120	.46
40	F-15	Clear	Med.	40F15	120	.40
40	F-15	White	Med.	40F15/W	120	.50
40	G-25	White	Med.	40G/W	60	.57
60	A-21	Colors	Med.	60A21/*	120	.67

* Colors: Blue(B), Green(G), Orange(O), Red(R), Rose(R2), Yellow(Y). Substitute color symbol in place of * when ordering.

FLAIR CHANDELIGHT LAMPS

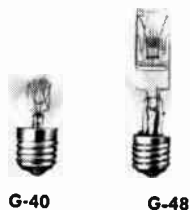


Exciting new decorative colors. Most types are available in Pearl White, Satin White, Auradescent, White and Colonial Amber in addition to Crystal which is listed below. Ask us for details.

Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
15	B-10	Crystal	Cand.	15B10/F	120	\$0.59
15	F-10	Crystal	Cand.	15FC/F	120	.39
15	F-15	Crystal	Med.	15F15/F	120	.49
25	B-10	Crystal	Cand.	25B10/F	120	.59
25	B-13	Crystal	Med.	25B13/F	120	.59
25	F-10	Crystal	Cand.	25F10C/F	120	.49
25	F-15	Crystal	Med.	25F/F	120	.39
40	B-10	Crystal	Cand.	40B10/F	120	.59
40	B-13	Crystal	Med.	40B13/F	120	.59
40	F-15	Crystal	Med.	40F15/F	120	.49

GENERAL ELECTRIC LAMPS

**FLOODLIGHT LAMPS
120 Volts**



G-E Floodlight lamps are made with the filament concentrated into a small space and accurately positioned with respect to the base. They may be burned in any position from vertically base down to horizontal. Similar Spotlight Lamps available.

Watts	Lamp Ordering Abbrev.	Bulb	Base	Light Cntr. Length, In.	Std. Pkg. Qty.	Each
250	250G/FL	G30	Med.	3	60	\$2.81
400	400G/FL	G30	Med.	3	60	2.86
500	500G/FL	G40	Mog.	4 1/4	24	4.53
1000	1M/G40FL	G40	Mog.	5 1/4	24	11.67
1500	1500G48/6	G48	Mog.	5 1/4	9	20.97
2000	2M/G48/17	G48	Mog.	5 1/4	9	16.65

SEMI-INDIRECT HOME LIGHTING LAMP

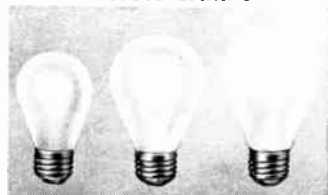


120 Volts

This lamp has a decorated enamel bowl which gives pleasing semi-indirect lighting. For single and multi-lamp rosette-type sockets in homes. Burn base up.

Watts	Bulb	Base	Ordering Abbrev.	Std. Pkg. Qty.	Each
50	GA-25 (Yellow)	Med.	50GA	60	\$0.56
50	GA-25 (Pink)	Med.	50GA/DPK	60	.56

SIGN LAMPS



Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
6	S-14	Clear	Med.	6S14	120	\$0.28
6	S-14	I.F.	Med.	6S14/IF	120	.28
10	S-11	Clear	Inter.	10S11N	120	.22
10	S-11	Colors*	Inter.	10S11N/C*	120	.29
10	S-14	Clear	Med.	10S14	120	.22
10	S-14	I.F.	Med.	10S14/IF	120	.22
10	S-14	Colors*	Med.	10S14/C*	120	.29
11	S-14	Clear	Med.	11S14	120	.26
11	S-14	I.F.	Med.	11S14/IF	120	.26
11	S-14	Colors*	Med.	11S14/*	120	.32
15	A-15	Clear	Med.	15A15/CL	120	.29
15	A-15	Colors*	Med.	15A/*	120	.35
20	A-17	Flasher	Med.	20A17/5	120	.33
25	A-19	Clear	Med.	25A/CL	120	.30
40	A-21	Colors*	Med.	40A/*	120	.46

* Colors: Blue(B), Green(G), Orange(O), Red(R), White(W), Yellow(Y). Substitute color symbol in place of * when ordering lamps.

TRANSPARENT COLOR SIGN LAMPS

Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
10	S-11	Colors	Inter.	10S11N/T*	120	\$0.42
10	S-14	Colors	Med.	10S14/T*	120	.33
11	S-14	Colors	Med.	11S14/T*	120	.37
15	A-15	Colors	Med.	15A15/GR/T*	120	.49
25	A-19	Colors	Med.	25A19/GR/T*	120	.51
40	A-21	Colors	Med.	40A21/GR/T*	120	.51

* Colors: Blue(B), Green(G), Orange(O), Red(R), Yellow(Y). Substitute color symbol in place of * when ordering lamps.

**APPLIANCE, NIGHT LIGHT AND HOME INDICATOR LAMPS
120-115-125 Volts**

Watts	Bulb and Finish	M.O.L. Inches	Ordering Abbreviation	Std. Pkg. Qty.	Each
Candelabra Screw Base					
6	S-6, Clear	1 1/2	6S6	240	\$0.21
7	C-7, Night Light	2 1/2	7C7/W	240	2/.49
10	C-7, Clear	2 1/2	10C7	240	.26
D-C Bayonet Candelabra Base					
10	C-7, Clear	2 3/16	10C7DC	120	.28
15	T-7, Clear	2 3/8	15T7DC	120	.49
25	T-8, Clear	2 3/8	25T8DC	120	.49
Medium Screw Base					
40	A-15, I.F.	3 3/4	40A15	120	.29



**COUNTRY HOME LAMPS
30-60 Volts**

Watts	Bulb	Base	Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	Each
15	A-17 I. F.	Med.	15A	120	\$0.37
25	A-19 I. F.	Med.	25A	120	.30
50	A-21 I. F.	Med.	50A21	120	.30
100	A-23 I. F.	Med.	100A	120	.43

REFLECTOR INFRARED HEAT LAMPS

**Medium Base
115-125 Volts (Design Volts 115)**



Heat lamps help relieve muscular aches and pains, and have many other uses for quick drying and heating. The R10/10 has built-in red filter to reduce brightness; is more rugged and has special glass providing protection against breakage by splashing water.

Watts	Bulb	Ordering Abbrev.	Std. Pkg. Qty.	Each
250	R-40 Light Inside Frosted	250R40/1	24	\$1.10
250	R-Red Bowl	250R40/10	24	2.95

TRAFFIC SIGNAL LAMPS



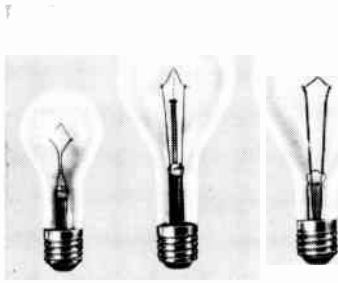
**Medium Screw Base
120 Volts**

Clear bulb. Has short light-center length, produces adequate light to assure signal indication of proper brightness.

Lamp Ordering Abbrev.	Watts	Rated Avg. Life	Approx. Initial Lumens	Std. Pkg. Qty.	Each
60A21/TS	60	2000	665	120	\$0.28
64A21/TS	61	3000	665	120	.31
69A21/TS	69	6000	665	120	.33
100A21/TS	100	2000	1260	120	.31
107A21/TS	107	3000	1260	120	.35
116A21/TS	116	6000	1260	120	.37

GENERAL ELECTRIC LAMPS

SERIES STREET LIGHTING LAMPS
Mogul Screw Base



Amperes	Lumens	Volts	Bulb	Lamp Ordering Abbreviation (Except Volts)	Std. Pkg. Qty.	Each
Regular						
6.6	1000	9.5	PS-25, Clear	1M/86	60	\$0.52
6.6	2500	21.6	PS-35, Clear	2500/66	24	.76
6.6	4000	32.8	PS-35, Clear	4M/66	24	.95
6.6	6000	48.4	PS-40, Clear	6M/66	24	1.24
15	4000	13.8*	PS-35, Clear	4M/15BU	24	1.62
15	4000	13.8†	PS-35, Clear	4M/15BD	24	1.62
20	6000	14.9*	PS-40, Clear	6M/20BU	24	1.40
20	6000	14.9†	PS-40, Clear	6M/20BD	24	1.43
20	10000	24.4*	PS-40, Clear	10M/20BU	24	2.15
20	10000	24.4†	PS-40, Clear	10M/20BD	24	2.53
20	15000	35.9*	PS-40, Clear	15M/20BU	24	2.35
20	15000	35.9†	PS-40, Clear	15M/20BD	24	2.86

Group Replacement

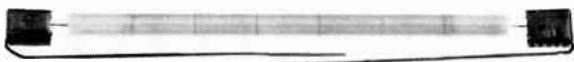
6.6	1000	10.0	PS-25	1M/66R	60	\$0.57
6.6	2500	23.0	PS-35	2500/66R	24	.78
6.6	4000	34.2	PS-35	4M/66R	24	1.00
6.6	6000	50.2	PS-40	6M/66R	24	1.29
20	10000	27.3	PS-40	10M/20R/BU	24	2.05

* Base up.
† Base down.

MULTIPLE STREET LIGHTING LAMPS
Clear Bulb — 120 Volts

Watts	Nominal Lumens	Bulb	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
58	600	A-19	58A19/62	120	\$0.33
92	1000	A-23	92A23/49	120	.37
92	1000	A-25	92A25	160	.46
189	2500	PS-25	189PS25/64	60	.49
230	3500	PS-30	230PS30/26	60	.65
295	4000	PS-35	295PS35/58	24	.86
340	5000	PS-35	340PS35/52	24	.95
405	6000	PS-40	405PS40/54	24	1.14
620	10000	PS-40	620PS40/53	24	1.33

TUBULAR QUARTZ LAMPS



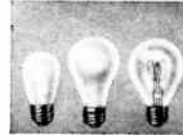
Tubular quartz lamps deliver many times the energy concentration provided by R-40 lamps. They may be used in compact trough reflectors for concentrated radiation.

500	500T3	T-3	Sleeve	120	5	8 ¹ / ₁₆	\$6.00
1000	1000T3	T-3	Sleeve	240	10	13 ¹ / ₁₆	8.00
1600	1600T3	T-3	Sleeve	240	16	19 ¹ / ₁₆	10.00
2500	2500T3	T-3	Sleeve	480	25	28 ¹ / ₁₆	13.50
3800	3800T3	T-3	Sleeve	570	38	41 ¹ / ₁₆	19.70
5000	5M/T3	T-3	Sleeve	960	50	53 ¹ / ₁₆	29.00

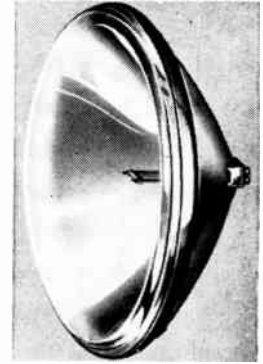
TRAIN AND LOCOMOTIVE LAMPS



200P-25



15514/IF 100A21/3
40A19



200 PAR

Trainlighting: Voltage regulating devices should be adjusted to maintain rated lamp voltage at the socket. 30 and 60-volt are best adapted to the voltage conditions normally encountered in trainlighting service.

Locomotive Headlight: Should be operated at rated voltage in headlight equipment protecting it from excessive vibration. The bulb must be protected from water which might strike it while hot, except in the case of the 200-watt PAR-56 lamp, which is of heat-resistant glass. Two sealed-beam type lamps are used on road locomotives, one on switchers. The 250-watt lamp is designed for road locomotives equipped with reflectors. The 100-watt is recommended for switching locomotives.

Locomotive Cab: For all-steam locomotive lighting purposes except headlighting.

Watts	Bulb	Finish	Base	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
Train — 30 and 60 Volts						
6*	S-6 Clear		Cand.	6S6	240	\$0.36
15	A-17 I.F.		Med.	15A	120	.37
25	A-19 I.F.		Med.	25A	120	.30
25	T-8 1/2 I.F.		Med.	25T8 1/2/IF	60	1.24
40	A-19 I.F.		Med.	40A(30v)	120	.39
40	A-19 I.F.		Med.	40A(60v)	120	.30
50	A-21 I.F.		Med.	50A21	120	.30
100	A-23 I.F.		Med.	100A	120	.43
Train — Rough Service — 75 Volts						
25	A-17 I.F.		Med.	25A17/RS	120	.46
50	A-19 I.F.		Med.	50A19/RS	120	.40
Train — 34 Volts						
15	S-14 I.F.		Med.	15S14/IF	120	.41
(Loco. Cab)						
Train — 75 Volts						
15	A-17 I.F.		Med.	15A	120	.46
15	S-11 Clear		D.C.Bay.	15S11/3DC	120	.76
30	S-11 Clear		D.C.Bay.	30S11DC	120	.76
30	S-11 Clear		D.C.Bay.	30S11DC(64v)	120	.76
Headlight — 32 Volts						
100	A-21 Clear		Med.	100A21/3	120	2.19
200	PAR-56 Clear		Sc.Term	200PAR(30v)	12	4.86
250	P-25 Clear		Med.	250P25	60	2.53

* 30 Volt only

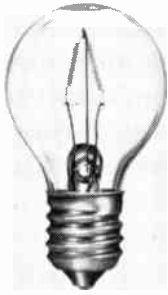
GERMICIDAL LAMPS



Watts	Bulb	Ultra-Violet Output Watts	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
Medium Bipin Base					
15	T-8, Clear	3.6	G15T8	24	\$3.50
30	T-8, Clear	8.3	G30T8	24	5.25
Miniature Bipin Base					
8	T-5, Clear	1.3	G8T5	24	3.50

GENERAL ELECTRIC LAMPS

OZONE LAMPS



G-E Ozone Lamps emit ultraviolet energy through the special glass bulb which changes some of the oxygen of the air to ozone. This masks odors in many areas such as kitchens, rest rooms, closets, offices, stores, elevators, basements, etc. Use one lamp for each 1000 cubic ft. of space.

Lamps require a ballast to limit current during operation. This can be a choke-coil, a 10-watt light bulb or a resistance of the correct size.

Watts	Bulb and Finish	Lamp Ordering Abbrev.	Std. Pkg. Qty.	Each
4	S-11, Clear	G4S11	120	\$1.25

**NEON GLOW INDICATOR LAMPS
105-125 Volts**



NE-40



NE-34



NE-30



NE-46

Screw Base Lamps. Series resistor mounted within base. Lamps suitable for use on higher voltages with addition of proper external resistance. Information on request.

Bayonet Base Lamps. External resistance required to limit current to normal amount. External resistors supplied by user.

Nom. Watts	Bulb	Base	Lamp Number	Max. Overall Lgth. (Ins.)	Starting* Voltage		Series Resistance (ohms)	Each
					AC	DC		
1/17	T-2	1" Wire Term.	A1A (NE-2)	1	65	90	150,000X	\$0.10
1/25	T-3/4	Min. Bayonet	B1A (NE-51)	1 1/16	65	90	220,000X	.20
1/4	T-4 1/2	D. C. Bayonet	B5A (NE-17)	1 1/2	65	90	30,000X	.86
1/4	T-4 1/2	Cand. Screw	B7A (NE-45)	1 1/32	65	90	30,000	.81
1/4	T-4 1/2	D. C. Bayonet	B9A (NE-48)	1 1/2	65	90	30,000X	.87
1/4	T-4 1/2	Cand. Screw	F3A (NE-57)	1 1/32	65	90	30,000	.64
1/2	T-4 1/2	Cand. Screw	F4A (NE-58)	1 1/32	65	90	100,000	.90
1	S-11	Medium Screw	J5A (NE-30)	2 1/4	65	90	7,500	1.14
1	S-11	Medium Screw	J9A (NE-58)	2 1/4	65	90	33,000	1.19
1	G-10	D. C. Bayonet	L5A (NE-32)	2 1/8	65	90	7,500X	1.14
2	S-14	Medium Screw	R2A (NE-34)	3 1/2	65	90	3,500	1.76
3	S-14	Medium Screw	R6A (NE-40)	3 1/2	60	85	2,200	2.56

Lamp Numbers shown supersede those in parentheses.

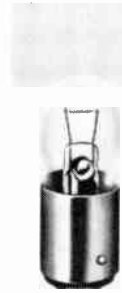
* Applies to new lamp.

X X in Resistance value means the resistance is to be provided by user.

CIRCUIT COMPONENT GLOW LAMPS

Initial DC Maintaining Voltage	at	Design Current (DC ma)	Bulb	Base	Lamp Number	Max. Overall Length (inches)	Each
52-62	@	.3	T-2	Wire Terminal	2AA (NE-99)	1/2	\$0.32
65-80	@	.3	T-2	Wire Terminal	3AD (NE-98)	3/4	.14
60-80	@	.4	T-2	Wire Terminal	3AG-A	3/4	.20
60-80	@	.5	T-2	Wire Terminal	4AB (NE-96)	2 7/32	.20
Avg. 59	@	.3	T-2	Wire Terminal	5AB (NE-23)	1	.16
52-65	@	.3	T-2	Wire Terminal	5AC (NE-68)	1	.40
50-60	@	.4	T-2	Wire Terminal	5AG-A (NE-76)	1	.50
Avg. > 57	@	1.5	T-2	Wire Terminal	5AJ (NE-86)	1 3/16	.16
53-65	@	1.5	T-4 1/2	D. C. Bayonet	7AA (NE-16)	1 1/2	.63
Avg. > 55	@	.3	T-2	Telephone Slide	8AA (NE-3)	1 1/16	.63
Avg. > 59	@	.3	T-2	Telephone Slide	8AB (NE-4)	1 1/16	.40
60-80	@	.5	T-2	Telephone Slide	8AC (NE-5)	1 1/16	.43

AUTOMOTIVE LAMPS



G-6



S-8



RP-11

D.C. Index

Prefocus

6 Volt Automotive Service

G-E Lamp No.	C. P.	Bulb	Base	Each
51	1	G-3 1/2	Min. Bay.	\$0.13
55	2	G-4 1/2	Min. Bay.	.13
63	3	G-6	S. C. Bay.	.17
64	3	G-6	D. C. Bay.	.24
81	6	G-6	S. C. Bay.	.21
82	6	G-6	D. C. Bay.	.21
87	15	S-8	S. C. Bay.	.33
88	15	S-8	D. C. Bay.	.33
209	15	B-6	S. C. Bay.	.33
210	15	B-6	D. C. Bay.	.33
1129	21	S-8	S. C. Bay.	.30
1130	21	S-8	D. C. Bay.	.38
1133	32	RP-11	S. C. Bay.	.39
1134	32	RP-11	D. C. Bay.	.44
1154	21-3	S-8	D. C. Index	.38
1158	21-3	S-8	D. C. Bay.	.38
1183	50	RP-11	S. C. Bay.	.56
1321	32	RP-11	S. C. Pref.	1.17
1323	32	RP-11	S. C. Pref.	.95
1390	20	R-12	D. C. Bay.	2.27
1503	50	RP-11	S. C. Pref.	1.36
2330	32-32	RP-11	D. C. Pref.	1.17
2331	32-32	RP-11	D. C. Pref.	1.17

12 Volt Automotive Service

G-E Lamp No.	C. P.	Bulb	Base	Each
53	1	G-3 1/2	Min. Bay.	\$0.13
57	2	G-4 1/2	Min. Bay.	.13
67	4	G-6	S. C. Bay.	.17
68	4	G-6	D. C. Bay.	.28
89	6	G-6	S. C. Bay.	.17
90	6	G-6	D. C. Bay.	.21
93	15	S-8	S. C. Bay.	.30
94	15	S-8	D. C. Bay.	.33
97	4	G-6	S. C. Bay.	.23
158	2	T-3 1/4	Wedge	.20
1003	15	B-6	S. C. Bay.	.30
1004	15	B-6	D. C. Bay.	.30
1005	21-21	S-8	D. C. Bay.	1.02
1016	21-6	S-8	D. C. Index	.53
1034	32-4	S-8	D. C. Index	.34
1073	32	S-8	S. C. Bay.	.30
1141	21	S-8	S. C. Bay.	.30
1142	21	S-8	D. C. Bay.	.33
1143	32	RP-11	S. C. Bay.	.50
1155	4	G-6	S. C. Bay.	.33
1156	32	S-8	S. C. Bay.	.44
1157	32-4	S-8	D. C. Index	.48
1176	21-6	S-8	D. C. Bay.	.38
1195	50	RP-11	S. C. Bay.	.84
1196	50	RP-11	D. C. Bay.	.88
1247	3	G-6	S. C. Bay.	.43
1327	32	RP-11	S. C. Pref.	1.17
1881	(2,2)	T-3 1/4	Min. Bay.	.18
1891	2	T-3 1/4	Min. Bay.	.16
1892	.75	T-3 1/4	Min. Bay.	.24
1893	2	T-3 1/4	Min. Bay.	.20
1895	2	G-4 1/2	Min. Bay.	.22
1898	2	T-3 1/4	Min. Bay.	.34

GENERAL ELECTRIC LAMPS

FLASHLIGHT, HAND LANTERN, BICYCLE AND MISCELLANEOUS LAMPS



G-E Lamp No.	Bulb	Rated Volts	Amps.	Service Used With	Each
Miniature Screw Base					
13	G-3½	3.70	0.30	3-D	\$0.16
14	G-3½	2.47	0.30	2-D	.16
27	G-4½	4.90	0.30	4-F	.19
31	G-4½	6.15	0.30	5-D	.21
112	TL-3	1.20	0.22	1-AA	.16
123	G-3½	1.25	0.30	1-C or D	.16
131	G-3½	1.30	0.10	1-D	.17
136	G-4½	1.25	0.60	1-6	.19
157	G-6	5.80	1.10		1.00
222	TL-3	2.25	0.25	2-AA	.16
223	FE-3¾	2.25	0.25	2-AA	.19
233	G-3½	2.33	0.27	2-C	.19
243	TL-3	2.33	0.27	2-C	.19
245	G-3½	2.46	0.50	2-D	.21
405	G-4½	6.50	0.50		.27
407	G-4½	4.90	0.30	4-F	.20
425	G-4½	5.00	0.50	4-F	.19
502	G-4½	5.10	0.15	4-F	.16
605	G-4½	6.15	0.50	5-D	.19
965	T-4½	9.84	0.50	8-D or F	.24
1482	G-4½	6.00	0.45		.26
1483	G-4½	6.00	0.04		.26

Single Contact Miniature Flange Base

PR2	B-3½	2.38	0.50	2-D	.19
PR3	B-3½	3.57	0.50	3-D	.19
PR4	B-3½	2.33	0.27	2-C	.19
PR6	B-3½	2.47	0.30	2-D	.19
PR7	B-3½	3.70	0.30	3-D	.24
PR9	B-3½	2.70	0.15	2-D	.29
PR12	B-3½	5.95	0.50	5-D	.19
PR13	B-3½	4.75	0.50	4-F	.19
PR14	B-3½	2.38	0.50	2-D	.34
PR16	B-3½	12.00	0.25		.24
PR18	B-3½	7.20	0.55	6-D	.29

AA-cells 1½" dia., 1⅞" high.
 C-cell 1⅞" dia., 1⅞" high.
 D-cell 1¾" dia., 2¼" high.
 F-cell 1¼" dia., 3⅞" high.
 No. 6 cell 2½" dia., 6" high.



TOY TRAIN LAMPS

G-E Lamp No.	Bulb	Rated Volts	Amps.	Base	Each
50	G-3½	7.5	0.22	Min. Screw	\$0.15
257	G-4½	12	0.27	Min. Bay.	.28
258	G-4½	14	0.27	Min. Screw	.44
363	G-3½	14	0.20	Min. Bay.	.21
401	G-4½	1.25	0.22	Min. Screw	.35
406	G-4½	2.6	0.30	Min. Screw	.22
428	G-4½	12.5	0.25	Min. Screw	.16
432	G-4½	18	0.25	Min. Screw	.21
433	G-4½	18	0.25	Min. Bay.	.26
1445	G-3½	18	0.15	Min. Bay.	.19
1446	G-3½	12	0.20	Min. Screw	.24
1447	G-3½	18	0.15	Min. Screw	.19
1449	G-3½	14	0.20	Min. Screw	.15
1768	T-1¾	6	0.20	MidgetScrew	.87

RADIO PANEL, INDICATORS AND MISCELLANEOUS LAMPS

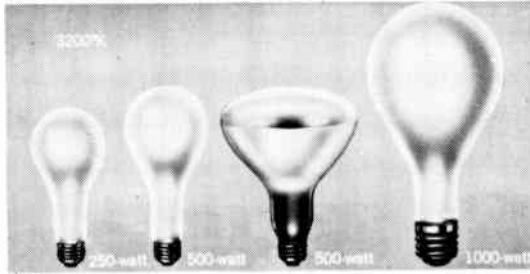
G-E Lamp No.	Bulb	Rated Volts	Amps.	Base	Each
6	S-8	6.4	3.00	D.C. Bay.	\$0.34
8	S-8	8.0	2.20	D.C. Bay.	.34
10	G-3½	2.5	0.50	Min. 2-Pin	.25
12	G-3½	6.3	0.15	Min. 2-Pin	.24
15	G-4½	7	0.40	Min. 2-Pin	.41
39	T-3¼	6.3	0.36	Min. Bay	.34
40	T-3¼	6.3	0.15	Min. Screw	.14
41	T-3¼	2.5	0.50	Min. Screw	.21
43	T-3¼	2.5	0.50	Min. Bay.	.21
44	T-3¼	6.3	0.25	Min. Bay.	.14
45	T-3¼	3.2	0.35	Min. Bay.	.17
46	T-3¼	6.3	0.25	Min. Screw	.14
47	T-3¼	6.3	0.15	Min. Bay.	.14
48	T-3¼	2.0	0.06	Min. Screw	.21
52	G-3½	14.4	0.10	Min. Screw	.26
67K	G-6	13.5	0.41	Cand. Screw	.43
71K	G-6	22	0.18	Cand. Screw	.34
72	G-6	22	0.18	D.C. Bay.	.34
89K	G-6	13	0.53	Cand. Screw	.63
159	T-3¼	6.3	0.15	Wedge	.21
239	T-3¼	6.3	0.36	Min. Bay.	.24
259	T-3¼	6.3	0.25	Wedge	.19
331	T-1¾	1.35	0.06	S.C. Mid. Flg.	.84
338	T-1¾	2.7	0.06	S.C. Mid. Flg.	.84
344	T-1¾	10	.0126-		
				.0154	S.C. Mid. Flg. 1.46
345	T-1¾	6	0.04	S.C. Mid. Flg.	1.45
352	G-3½	2	0.06	Min. Screw	.34
1224K	G-6	32	0.16	Cand. Screw	.52
1458	G-5	20	0.25	S.C. Bay.	.26
1471	G-6	12	0.26	Cand. Screw	.58
1474	T-3	14	0.17	Min. Screw	.34
1476	T-3	18	0.17	Min. Screw	.43
1477	T-3	24	0.17	Min. Screw	.52
1487	T-3¼	14	0.20	Min. Screw	.24
1488	T-3¼	14	0.15	Min. Bay.	.26
1490	T-3¼	3.2	0.16	Min. Bay.	.17
1594	S-8	6	5.00	D.C. Bay.	2.13
1619	S-8	6.7	1.90	S.C. Bay.	1.10
1630	S-8	6.5	2.75	D.C. Pref.	1.36
1634	S-8	20	1.00	D.C. Pref.	2.81
1724	S-11	6.2	4.50	D.C. Bay.	.84
1763	S-11	6.1	4.10	S.C. Pref.	1.20
1769	T-1¾	2.5	0.20	MidgetScrew	.84
1804	T-3¼	4	0.06	Min. Bay.	.48
1809	T-3¼	2	0.06	Min. Bay.	.52
1813	T-3¼	14.4	0.10	Min. Bay.	.24
1815	T-3¼	14	0.20	Min. Bay.	.19
1819	T-3¼	28	0.04	Min. Bay.	.35
1820	T-3¼	28	0.10	Min. Bay.	.31
1821	T-3¼	28	0.17	Min. Screw	.63
1822	T-3¼	36	0.10	Min. Bay.	.58
1828	T-3¼	37.5	0.05	Min. Bay.	.63
1829	T-3¼	28	0.07	Min. Bay.	.34
1843	T-3¼	28	0.022	Min. Bay.	1.07
1847	T-3¼	6.3	0.15	Min. Bay.	.17
1855	T-4½	6.3	0.80	Min. Bay.	.34
1866	T-3¼	6.3	0.25	Min. Bay.	.21

CHRISTMAS BULBS

Number	Bulb	Use	Burning	Each
C6	C-6	Indoor	Series	4/29¢
Colors: Blue, Green, Orange, Pink, Red, White				
C7½	C-7½	Indoor- Outdoor	Multiple	4/49¢
Translucent colors: Blue, Green, Orange, Pink, Red, White				
C9½	C-9½	Outdoor	Multiple	4/65¢
Translucent colors: Blue, Green, Orange, Red, White				
D-15	C-9½	Outdoor	Multiple	4/65¢
Transparent colors: Blue, Green, Red, Clear, Yellow				
D23	C-7½	Indoor- Outdoor	Multiple	4/57¢
Satin Glo colors: Red, Blue, Green, Orange, White				
D26	C-7½	Indoor- Outdoor	Multiple	4/77¢
TWINKLE Transparent colors: Blue, Green, Red, Clear, Yellow				
D27	C-9½	Outdoor	Multiple	4/89¢
TWINKLE Colors: Blue, Green, Red, Clear, Yellow				
D30	G-14	Indoor- Outdoor	Multiple	29¢ each
LIGHTED ICE Colors: Pearl, Ruby, Topaz, Garnet, Emerald, Turquoise				

GENERAL ELECTRIC LAMPS

PHOTOFLOOD LAMPS
(also see Quartzline Lamps)
115-120 Volts



3100°K Photoflood Lamps give maximum light for the amount of current used. Designed for use with Type A color materials, but are also ideally suited for black and white photography.

3200°K Lamps are for general studio use with either black and white film or professional types of indoor color materials.

Reflector Photo Lamps have built-in reflectors. Beam spreads of these lamps vary from 20° for the PH/RSP2, to 90° for the PH/RFL2.

3400°K Lamps

Lamp Order Code	Watts	Bulb	Base	Description	Lumens (C.P. = Candle power)	Std. Pkg. Qty.	Each
BBA	250	A-21	Med.	PH/1 I.F.	8,500	60	\$0.31
BEP	300	R-30	Med.	Rfl. Movie Light	11,000 C.P.	24	.93
BFA	375	R-40	Med.	Rfl. Movie Light	16,000 C.P.	24	1.25
DAN	200	R-20	Med.	Rfl. Movie Light	10,500 C.P.	24	1.25
DWA	650	PAR-36	FC	Rfl. Movie Light	25,500 C.P.	6	4.95
DXB	500	R-40	Med.	RSP2—Spot Beam	50,000 C.P.	24	2.40
DXC	500	R-40	Med.	RFL2—Flood Beam	6,500 C.P.	21	1.75
DXR	1000	PS-35	Mog.	PH/4 I.F.	31,000	24	1.60
EBR	375	R-30	Med.	Rfl. Movie Light	14,000 C.P.	24	1.15
EBV	500	PS-25	Med.	PH/2 I.F.	17,000	60	.55

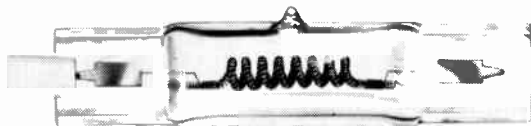
3200°K Lamps

DMS	500	T-20	Med.	Studio	13,200	24	4.95
DMX	500	T-20	Med.	Pf. Studio	13,200	24	5.10
EAL	500	R-40	Med.	Rfl. Medium Beam	8,200 C.P.	24	2.40
ECA	250	A-23	Med.	PH/250A23 I.F.	6,500	120	.45
ECT	500	PS-25	Med.	PH/500PS25/5 I.F.	13,650	60	.80
ECV	1000	PS-40	Mog.	PH/1M/PS40/1 I.F.	26,500	24	3.00

Blue Photofloods

BCA	250	A-21	Med.	PH/B1 I.F.	5,000	60	.45
DXT	1000	PS-35	Mog.	PH/B4 I.F.	19,200	24	2.20
EBW	500	PS-25	Med.	PH/B2 I.F.	10,500	60	.85

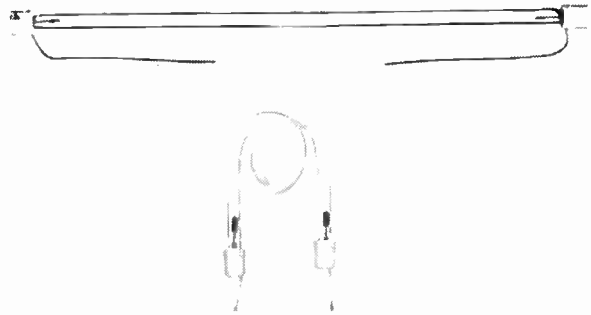
QUARTZLINE® PHOTOGRAPHIC LAMPS
120 Volts



Lamp Order Code	Watts	Bulb	Base	Description	Color Temp. °K	Std. Pkg. Qty.	Each
BRH	1000	T-5	SCR	Overhead Projection	3350	24	\$14.25
DVY	650	G-7	2-Pin	Movie—Studio	3400	6	6.45
DWV	460	T-5	SCR	Overhead Projection	3400	24	9.45
DWY	650	T-4	SCR	Movie—Studio	3400	24	7.95
DWZ	375	T-4	SCR	Bowling Score 30-volt	2900	24	9.55
DXK	650	PAR-36	FC	Rfl. Medium Beam	3400	4	9.95
DXN	1000	T-5	SCR	Studio—Projection	3400	24	12.80
DXW	1000	T-5	SCR	Studio	3200	24	13.40
DYH	600	G-7	2-Pin	Studio—Projection	3200	6	7.95
DYP	600	G-7	2-Button	Overhead Projection	3200	6	8.25
FAB	650	T-4	SCR	Copyboard	3400	24	7.95
FAD	650	T-4	SCR	Studio—Projection	3200	24	8.00
FAL	420	T-4	SCR	Overhead Projection	3200	24	7.95
FGB	600	T-4	SCR	Overhead Projection	3250	24	8.50
FCS	150	T-4	2-Pin	Projection 24-volt	3200	24	8.50
FFJ	600	T-4	SCR	Overhead Projection	3250	24	8.20
FGB	750	T-5	SCR	Studio	3200	24	12.50
FGC	750	T-5	SCR	Studio	3400	24	12.25
FGD	500	T-4	SCR	Studio	3200	24	9.75
FGE	500	T-4	SCR	Studio	3400	24	9.50

FC = Ferrule Contact SCR = Single Contact Recessed

FLASHTUBES



Flash-tube Number	Base	Approx. Source Dimensions, Inches	Light Center Lgth., Inches	Max. Overall Lgth., Inches	Max. Watt-Sec. @ Design Voltage	Max. Lumen-Seconds (Thousands)	Case Qty.	Each
FT-30	Wire Term.	3/8 x 1/4	.....	2 3/16	.....	.....	25	\$5.20
FT-106	1 1/2" dia. insulating disk — 3-Pin	3/8 x 3/8	1 1/16	2 3/16	40	1.1	12	9.90
FT-110	1 1/2" dia. insulating disk — 3-Pin	3/8 x 1 1/8	1 3/8	2 1/2	100	4.4	12	9.95
FT-118	1 1/2" dia. insulating disk — 3-Pin	3/8 x 3/8	1 1/8	2 1/2	125	4.5	12	9.00
FT-120	Radio 4-Pin	3/8 x 3/8	1 1/4	2 3/4	125	4.5	12	11.30
FT-217	Radio 4-Pin	3/8 x 3/8	1 3/4	2 3/4	200	10	12	11.30
FT-218	1 1/2" dia. insulating disk with 3 Pins	3/8 x 3/8	1 1/8	2 1/2	200	9	12	9.10
FT-220	3 Screw Term.	1 1/8 x 1 1/8	.....	3 1/2	200	.....	12	27.00
FT-221	Radio 4-Pin	3/8 x 3/8	1 1/4	2 3/4	200	10	12	14.00
FT-306B	Large 3-Pin	1 1/8 x 1 1/4	3	5 1/4	500	32	12	23.75
FT-403	Large 3-Pin	1 1/8 x 2 3/8	3	6 3/4	480	19	12	29.00
FT-503	Large 3-Pin	1 1/8 x 2 3/8	3	6 3/4	2000	100	6	95.00
FT-506	Octal 5-Pin	1 1/8 x 1	2 1/8	4 3/8	1000	40	6	55.00
PXA-44	Special Wire Term.	6 x 3/8	.....	9 1/2	600 Watts	.....	6	27.50
PXA-45	Special Wire Term.	12 x 3/8	.....	15 1/2	1500 Watts	.....	12	30.00
PXA-47	Special Wire Term.	24 x 3/8	.....	27 1/2	3000 Watts	.....	12	35.00
PXA-50	Wire Term.—Ceramic Caps	1 1/8 x 2 1/8	3 3/4	4 3/8	4000 Watts	125,000 Lumens	21	56.00
PXA-56	Wire Term.—Ceramic Caps	1 1/2 x 2	2 3/4	4	1500 Watts	38,000 Lumens	1	54.00
PXA-80	Wire Term.—Ceramic Caps	3 1/2 x 2 1/4	3 3/4	4 3/8	8000 Watts	240,000 Lumens	1	92.00

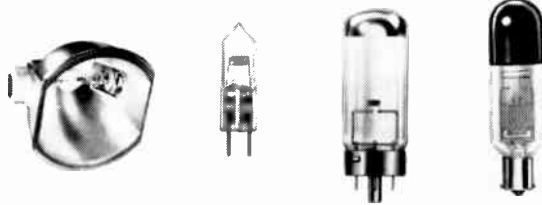
PHOTOFLOOD LAMPS

Lamp Ordering Abbreviation	Flashing Voltage Range	Approx. Lumen Seconds (In Thousands)	Bulb and Finish	Case Quantity	Each
AG-1	3-45	7.2	T-3 1/2, Clear	144	\$0.13
AG-1B	3-45	5.3	T-3 1/2, Blue	144	.13
AG-3B	3-45	7.2	T-3 1/2, Blue Cube	144	.15
Flashcubes (4 flashes)	3-45	7.2	T-6 1/2, Clear	36	.65
PH/M2	3-45	4.4	T-6 1/2, Blue	144	.14
PH/M2B	3-45	16.0	T-6 1/2, Clear	144	.17
PH/M3	3-45	11.5	T-6 1/2, Blue	144	.17
PH/M3B	3-45	20.0	B-11, Clear	144	.17
PH/5	3-45	11.0	B-11, Blue	144	.17
PH/5B	3-45	17.5	B-11, Clear	144	.20
PH/6	3-45	10.5	B-11, Blue	144	.20
PH/6B	3-45	33.0	A-15, Clear	120	.29
PH/11	3-125	70.0	A-19, Clear	120	.33
PH/22	3-125	32.0	A-19, Blue	120	.35
PH/22B	3-125	100.0	A-21, Clear	120	.38
PH/50	3-125	43.0	A-21, Blue	120	.40

Suffix "B" indicates "Universal Blue" coating

GENERAL ELECTRIC LAMPS

**PROJECTION LAMPS
115, 120 and 125 Volts**



Code	Watts	Bulb	Base	Description	Qty.	Each
BEC	150	B-12	D. C. Bay.	Slide	24	\$2.45
BEH	150	T-10	4-Pin	Slide, Gold Top	24	2.80
BEJ	200	B-12	D. C. Bay.	Slide	24	2.55
BEY	5 amp.	G-16½	S. C. Pf.	Microprojection (20-volt)	60	2.50
BFB	170	T-10	S. C. Bay.	Slide, Opaque end	24	3.50
BFL	750	T-20	Med. Pf.	Bowling Score, Opaque end	24	8.50
BFR	3 amp.	S-8	S. C. Pf.	Slide, (10.8-volt)	24	1.35
BGB	.75 amp.	S-8	D. C. Pf.	Sound lamp (4-volt)	100	.90
BHD	100	S-11	S. C. Bay.	Microprojection (20-volt)	120	1.55
BKR	30	S-11	Cand.	Film Viewer	120	.80
BKV	30	S-11	S. C. Bay.	Film Viewer	120	.85
BLC	30	S-11	D. C. Bay.	Film Viewer	120	.95
BLR	50	S-11	S. C. Bay.	Toy Projection	120	.90
BLX	50	S-11	D. C. Bay.	Toy Projection	120	1.00
BMA	150	S-11	D. C. Bay.	Movie—Ext. Reflector	24	2.70
BMD	100	S-11	S. C. Bay.	Toy Projection	120	1.00
BMG	100	S-11	D. C. Bay.	Toy Projection	120	1.10
BMY	100	S-11	S. C. Bay.	Movie—Slide	120	1.75
BRD	.75 amp.	T-5	S. C. Bay.	Sound Lamp (4 volts)	100	1.05
BRH	1000	T-5	SCR	Overhead Projection	24	14.25
BRK	.75 amp.	T-5	S. C. Pf.	Sound Lamp (4 volts)	100	1.30
BRS	.75 amp.	T-5	S. C. Pf.	Sound Lamp (4 volts)	100	1.15
BRX	1 amp.	T-5	D. C. Pf.	Sound Lamps (6 volts)	100	1.25
BSK	1 amp.	T-5	S. C. Pf.	Sound Lamp (6 volts)	100	1.15
BSS	1 amp.	T-5	S. C. Pf.	Sound Lamp (6 volts)	100	1.30
BSW	.20 amp.	T-5	S. C. Pf.	Sound Lamp (7 volts)	100	1.35
BTD	.20 amp.	T-5	D. C. Pf.	Sound Lamp (7 volts)	100	1.20
BVB	30	T-7	S. C. Bay.	Slide, Opaque end	24	1.05
BVK	6.5 amp.	T-8	S. C. Pf.	Sound Lamp (5 volts)	24	1.40
BVL	1 amp.	T-5	S. C. Pf.	Sound Lamp (6 volts)	100	1.85
BXB	4 amp.	T-8	S. C. Pf.	Sound Lamp (8.5 volts)	24	1.40
BXJ	4 amp.	T-8	S. C. Bay.	Sound Lamp (8.5 volts)	24	1.50
BXT	100	T-8	S. C. Bay.	Movie—Slide, Opaque end	24	2.85
BZW	50	T-8	S. C. Bay.	Slide	24	1.55
CAC	50	T-8	D. C. Bay.	Slide	24	1.60
CAL	300	T-10	4-Pin	Movie—Slide, Gold Top	24	4.05
CAR	150	T-10	4-Pin	Slide, Gold Top	24	3.10
CAS	50	T-8	S. C. Bay.	Movie—Slide	24	2.00
CAX	50	T-8	D. C. Bay.	Movie—Slide	24	2.10
CBJ	75	T-8	S. C. Bay.	Movie—Slide, Opaque end	24	2.40
CBX	75	T-8	D. C. Bay.	Slide, Opaque end	24	2.30
CCK	75	T-8	D. C. Pf.	Slide	24	2.95
CCM	200	T-8	D. C. Bay.	Slide, Opaque end	24	2.60
CDD	100	T-8	S. C. Bay.	Slide	24	1.60
CDJ	100	T-8	D. C. Bay.	Slide	24	1.70
CDS	100	T-8	S. C. Bay.	Movie—Slide, Opaque end	24	2.50
CEB	100	T-8	D. C. Bay.	Slide-Viewer	24	2.60
CEW	150	T-8	S. C. Bay.	Slide, Opaque end	24	2.45
CFY	150	T-8	D. C. Pf.	Slide	24	3.25
CGE	150	T-8	S. C. Bay.	Advertising Proj. Opaque end	24	2.55
CGP	150	T-8	D. C. Bay.	Slide, Opaque end	24	2.55
CGW	200	T-8	S. C. Bay.	Movie—Slide, Opaque end	24	2.55
CHG	200	T-8	D. C. Pf.	Movie—Slide	24	2.70
CLS	300	T-8½	S. C. Bay.	Movie—Slide, Opaque end	24	3.30
CLX	300	T-8½	D. C. Bay.	Movie—Slide, Opaque end	24	3.40
CMV	300	T-8¼	S. C. Bay.	Movie—Slide, Opaque end	24	4.00
CPG	18 amp.	T-10		Slide (6 volts)	24	4.70
CPR	18 amp.	T-10	Med. Pf.	Movie—Slide (6 volts)	24	5.05
CRT	300	T-10	4-Pin	Microfilm, Gold Top	24	5.25
CTL	150	T-10	Med. Pf.	Advertising Proj. Opaque end	24	5.45
CTR	140	T-10	Medium	Toy Projection	60	.75
CTS	1000	T-12	4-Pin	Movie, Gold Top	24	7.15
CVS	200	T-10	Med. Pf.	Slide	24	4.55
CWA	750	T-12	4-Pin	Movie, Gold Top	24	6.70
CWD	300	T-10	4-Pin	Slide, Gold Top	24	3.75
CXK	300	T-10	Med. Pf.	Movie—Slide, Opaque end	24	4.40
CXY	300	T-10	Med. Pf.	Movie—Slide, Opaque end	24	4.85
CYB	300	T-10	S. C. Bay.	Slide, Opaque end	24	3.60
CYC	300	T-10	S. C. Bay.	Slide, Opaque end	24	3.40
CYE	400	T-10	S. C. Bay.	Slide, Opaque end	24	4.45
CYN	150	T-10	4-Pin	Slide, Opaque end (24 volts)	24	4.84
CYS	1200	T-12	4-Pin	Movie, Gold Top	24	7.85
CZA	500	T-10	4-Pin	Movie—Slide, Gold Top	24	4.90

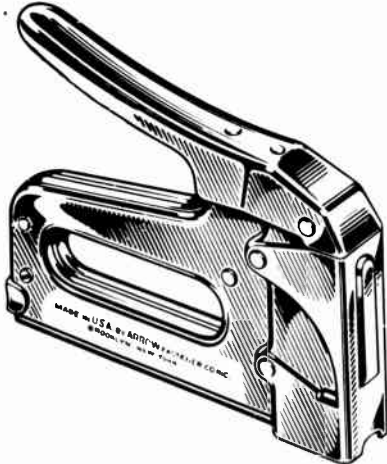
PROJECTION LAMPS (cont'd)

Code	Watts	Bulb	Base	Description	Qty.	Each
CZB	500	T-10	4-Pin	Movie—Slide, Gold Top	24	4.90
CZX	500	T-10	Med. Pf.	Movie—Slide, Opaque end	24	4.85
DAH	500	T-12	4-Pin	Slide, Opaque end	24	7.15
DAK	500	T-10	4-Pin	Movie—Slide, Gold Top	24	4.65
DAR	500	T-10	Small Index Ring	Movie, Opaque end	24	5.80
DAS	500	T-10	Med. Ring	D. C. Movie	24	6.45
DAY	500	T-10	4-Pin	Slide, Gold Top	24	6.20
DCA	150	T-12	4-Pin	Movie, Gold Top (21 volts)	24	5.00
DCH	150	T-12	4-Pin	Movie	24	4.75
DCL	150	T-12	4-Pin	Movie	24	5.95
DOB	750	T-12	Med. Pf.	Movie—Slide, Opaque end	24	6.10
DDW	750	T-12	Med. Pf.	Slide, Opaque end	24	5.10
DDY	750	T-12	Med. Pf.	Advertising & Bowling Score Projection, Opaque end	24	8.80
DEC	750	T-12	D. C. Med. Ring	Movie	24	6.05
DEF	150	T-12	4-Pin	Movie, Gold Top (21 volt)	24	5.95
DEJ	750	T-12	Large Index Ring	Movie, Opaque end	24	6.05
DEK	500	T-12	4-Pin	Slide, Gold Top	24	5.85
DEP	750	T-12	4-Pin	Slide, Gold Top	24	5.10
DER	500	T-12	4-Pin	Slide, Opaque end	24	6.10
DFA	150	T-12	4-Pin	Movie, Gold Top	24	5.25
DFC	150	T-12	4-Pin	Movie	24	4.75
DFD	1000	T-12	Med. Pf.	Movie, Opaque end	24	5.50
DFG	150	T-12	4-Pin	Movie, Opaque end	24	4.75
DFH	500	T-12	Locking 4-Pin	Slide, Gold Top	24	5.35
DFK	1000	T-12	Large Index Ring	Movie, Opaque end	24	6.45
DFN	150	TB-12	4-Pin	Movie	24	5.25
DFP	150	TB-12	4-Pin	Movie	24	5.25
DFR	500	T-12	Locking 4-Pin	Slide, Gold Top	24	5.40
DFT	1000	T-12	Med. Pf.	Movie, Opaque end	24	5.95
DFW	500	T-12	4-Pin	Slide, Gold Top	24	5.20
DFY	1000	T-12	Large Index Ring	Movie, Opaque end	24	6.75
DGA	300	T-10	4-Pin	Slide, Gold Top	24	4.05
DGF	500	T-12	4-Pin	Slide, Gold Top	24	4.90
DGH	750	T-12	Med. Pf.	Bowling Score, Opaque end	24	7.60
DGR	750	T-12	4-Pin	Slide, Gold Top	24	6.45
DGS	1000	T-12	D. C. Med. Ring	Movie	24	6.45
DHJ	500	T-12	4-Pin	Movie, Gold Top	24	6.65
DHN	500	T-12	4-Pin	Slide, Gold Top	24	5.20
DHT	1200	T-12	Med. Pf.	Movie, Opaque end	24	7.25
DHX	150	TB-14	4-Pin	Movie (21 volts)	24	6.75
DJL	150	T-12	4-Pin	Movie	24	5.00
DKM	250	T-14	4-Pin	Movie (21.5 volts)	24	8.10
DKR	150	T-14	4-Pin	Movie (21 volts)	24	6.30
DLG	150	T-14	4-Pin	Movie (21 volts)	24	5.80
DLH	250	T-14	4-Pin	Movie, Opaque end	24	6.25
DMH	250	T-14	4-Pin	Movie	24	6.90
DMK	500	T-14	4-Pin	Overhead Projection	24	11.30
DML	400	T-14	4-Pin	Overhead Projection	24	10.90
DLR	250	T-14	4-Pin	Movie, Opaque end (21 volts)	24	8.10
DLS	150	T-14	4-Pin	Movie (21, 22 volts)	24	6.30
DMS	500	T-20	Medium	Opaque Projection—Slide	24	4.95
DMX	500	T-20	Med. Pf.	Opaque Projection—Slide	24	5.10
OPJ	750	T-20	Med. Pf.	Slide	24	7.40
OPT	1000	T-20	Mogul	Slide	12	8.00
OPW	1000	T-20	Mog. Pf.	Slide	12	8.50
ORB	1000	T-20	Med. Pf.	Slide	24	6.60
ORC	1000	T-20	Med. Pf.	Overhead Projection	24	7.15
ORS	1000	T-20	Med. Pf.	Slide	24	6.45
DRW	1000	T-20	Mogul	Slide	12	9.55
DSW	200	TB-14	4-Pin	Movie (21 volts)	24	7.15
DTJ	1500	T-20	Mog. Pf.	Slide	12	14.30
DVY	650	G-7	2-Pin	Overhead Projection	6	6.45
DWW	460	T-5	SCR	Overhead Projection	24	9.45
DWY	650	T-4	SCR	Overhead Projection	24	7.95
DWZ	375	T-4	SCR	Bowling Score (30 volts)	24	9.55
DXN	1000	T-5	SCR	Overhead Projection	24	12.80
DYP	600	G-7	2-Button	Overhead Projection	6	8.25
EDK	500	T-10	S. C. Bay.	Movie—Slide, Opaque end	24	4.45
FAD	650	T-4	SCR	Overhead Projection	24	8.00
FAL	420	T-4	SCR	Overhead Projection	24	7.95
FCB	600	T-4	SCR	Overhead Projection	24	8.50
FCS	150	T-4	2-Pin	Slide (24 volts)	24	8.50
FFJ	600	T-4	SCR	Overhead Projection	24	8.20
MARC-300/16	300	T-3½	Special 2-Pin	Movie-Arc (37.5 volts)	4	37.00
MARC-300/16A	300	T-3½	Special 2-Pin	Movie-Arc (37.5 volts)	4	37.00

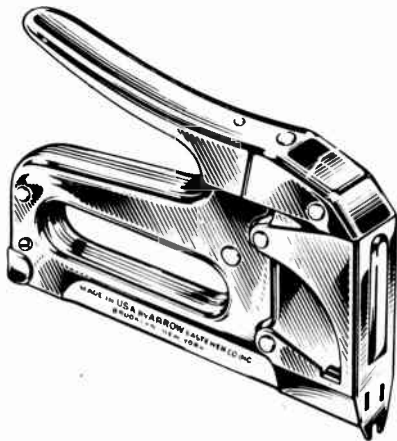
ARROW STAPLERS

WIRE & CABLE STAPLE GUNS

Specially designed for safe, speedy and efficient installation of electrical wires and cables. Powerful single stroke action shoots staples in 1/1000 of a second—imbeds them firmly and evenly, legs spread to lock tightly in wood, without twisting or bending the staple. Rosin-coated for greater gripping power. Driving blade automatically stops staple at right depth of penetration to prevent damage to wires and cables. Rugged all-steel construction with chrome finish. Patented jam-proof mechanism.



No. T-75 Staple Gun for non-metallic sheathed cables up to 1/2" diameter. Use 5/8" staple for 2 or 3 conductor 14; 3/8" staple for 2 or 3 conductor 12; 1/8" staple for very hard woodseach **\$14.40**



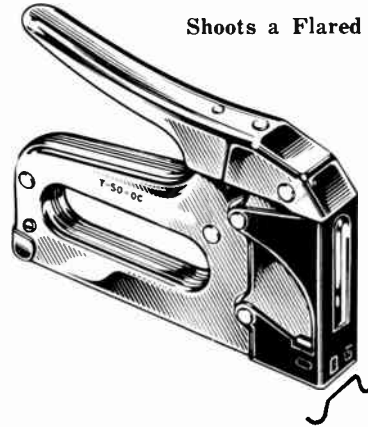
No. T-25 Staple Gun for fastening wires up to 1/4" diameter (bell, thermostat, telephone, intercom, burglar alarm type wires, etc.). Tapered striking edge gets into close corners and other tight places.each **\$14.40**

STAPLES

Cat. No.	Box Qty.	Per Box	
		Steel	Monel
T75- 5/8"	1000	\$2.25	\$12.00
T75- 3/8"	1000	2.25	12.00
T75- 1/8"	1000	2.50	14.00
T25- 3/2"	5000	4.00	18.00
T25- 3/8"	5000	4.00	18.00
T25- 1/11"	5000	4.00	18.00
T25- 1/8"	5000	4.50	20.00

No. T-50oc OUTWARD CLINCH STAPLE GUN

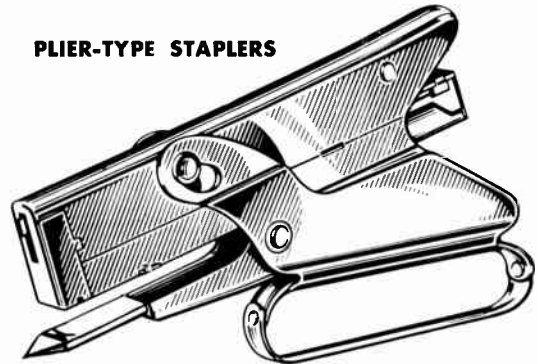
Shoots a Flared Staple



Staple enters soft material and locks inside without penetrating through. Specially designed for jobs where external "anvil-in-base" staplers cannot be used, such as: stapling shipping tags, inventory control tags and receiving papers on corrugated containers; fastening butt or over-lapping insulation around steam pipes, boilers and air ducts; fastening display materials to corrugated or cardboard backdrops and numerous other jobs requiring a blind clinch.

Features patented internal sliding anvil for long life capacity in outward clinch staple forming; adjustable set screws for changing degree of curl on staple legs.....each **\$16.00**

PLIER-TYPE STAPLERS



Operate with powerful cam-actuated leverage for tireless short stroke and fast clinch stapling action. Designed with deep 2 3/4" throat for reaching into hard-to-get-at places. Both are built of all-steel with hardened steel working parts. Jam-proof easy-to-get-at mechanism for cleaning. Hand guide loop for greater maneuverability. Adjustable gauge attachment available for measured or spaced stapling.

No. P-35 — Suitable for sealing burlap, jiffy insulated and heavy kraft bags; fastening pipe and duct insulation in heating and air conditioning; rug binding in carpet workshops; fastening extended carton flaps for packing and shipping.each **\$8.40**

No. P-35S — Same design and construction as No. P-35 with additional feature of spear-pointed anvil arm which penetrates edges of corrugated containers for clinching staples inside. Serves to seal and strengthen container with damaging contents.each **\$11.15**

STAPLES

Cat. No.	Box Qty.	Per Box	
		Steel	Monel
T50- 3/8"	5000	\$2.75	\$16.00
T50- 1/2"	5000	3.25	21.00
T50- 1/8"	5000	3.50	24.00
P35- 1/4"	5000	2.50	.....
P35- 3/8"	5000	2.50	.....

APPLETON-BENFIELD BENDERS AND HICKEYS
HICKEYS FOR STEEL OR ALUMINUM RIGID CONDUIT



Appleton-Benfield Hickeys bend rigid conduit only. Will bend to any radius. Short radius for shallow slabs and confined areas, long radius to aid in wire pulling, and varied radii for peculiar contours. The HB-7 bends 90° angles in one sweep. Both feature an automatic plumb-bob degree of angle indicator.

Cat. No.	Cond. Size	Handle	Std. Pkg.	Wt. per 100	Price
HB-7	1/2" and 3/4"	1"	10	375	\$7.44
HB-8	1" and 1 1/2"	1 1/2"	2	1200	16.00

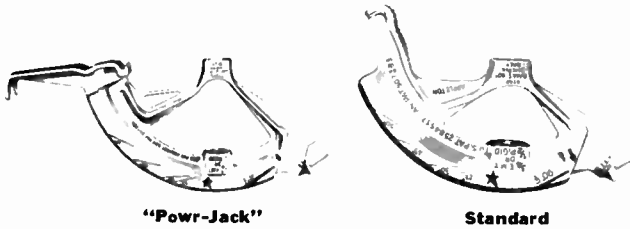
Tigergrip Hickeys for Rigid Steel or Aluminum Conduit



An efficient, yet economical hickey for steel and aluminum rigid conduit. Available in two sizes to meet most application needs.

Cat. No.	Cond. Size	Handle	Std. Pkg.	Wt. per 100	Price
B-5075	1/2" and 3/4"	1"	10	210	\$3.31
B-100	1"	1"	10	550	10.13

APPLETON-BENFIELD BENDERS



Appleton-Benfield benders can be used for EMT rigid steel or aluminum conduit. They feature a solid non-skid hook, degree scale for fast precision offsets, outriggers to stabilize the bender, built-in back-pusher for minor degree adjustments, clear symbols and a five year guarantee. The standard model features one piece construction while the Powr-Jack model has a booster step that doubles the leverage ratio for larger size conduits.

Cat. No.	Rigid Size	EMT Size	Std. Pkg.	Wt. Per 100	Price
Standard Model					
B-1	1/2"		10	229	\$4.47
B-2	3/4"	1/2"	10	360	7.31
B-3	1"	3/4"	4	631	12.88
Powr-Jack					
BJ-5	1"	3/4"	4	715	14.38
BJ-6	1 1/4"	1"	1	1800	29.88

STUBBER HICKEYS FOR THINWALL CONDUIT



Cat. No.	Handle	Cond. Size	Std. Pkg.	Price
TWB-5075	1/2"	3/4" IPS	10	\$4.00
TWB-75100	3/4"	1" IPS	10	5.00
TWB-100	1"	1" IPS	10	8.20
TWB-125	1 1/4"	1 1/4" IPS	1	11.00
TWB-150	1 1/2"	1 1/4" IPS	1	12.75
TWB-200	2"	1 1/2" IPS	1	20.00

INDENTER CONNECTOR AND COUPLING TOOLS



Indenter tools for securing indenter fittings to thinwall. Small, light tools secure fitting with two quick squeezes of the handles.

Cat. No.	EMT Size	Std. Pkg.	Wt. per 100	Price
BMT50	1/2"	1	100	\$5.00
BMT75	3/4"	1	125	6.25
BMT100	1"	1	150	7.50

CHANNELLOCK TOOLS

CHANNELLOCK TONGUE AND GROOVE PLIERS

Interlocking principle positively prevents slipping under any load — the heavier the job, the greater the interlocking action. Wide base lugs. Nose design provides greater utility for gripping small objects. Patented design of tension edge provides more strength and eliminates stress concentration at channels. New interlocking design minimizes stress on joint bolt. Precision machined interlocking surfaces provide perfect fit, thus distributing pressure evenly. "Rite Angle" teeth guarantee maximum bite and minimum wear. Polished steel finish.



Cat. No.	Size In.	Jaw Cap. In.	Adj's.	Each
410	9 1/2	1 1/8	4	\$3.80
415*	10	2	7	3.70
420†	9 1/2	1 1/2	5	3.50
424†	4 1/2	1/2	4	2.60
426	6 1/2	3/8	5	2.60
430	10	2	7	3.80
440	12	2 1/4	7	3.90
460-G	16	4 1/4	8	5.60

*Smoothjaw.
 †Govt. Specs. GGG-P-471c — Type II, Class 1, Style A. Size 5" (No. 424); Size 10" (No. 420).
 No. 460-G furnished only with blue dipped plastic grips. All others shown available with plastic grips at extra cost.

No. 349 WIREMASTER PLIER



Joint rivet closer to cutting edges gives 40% more cutting power than standard pliers. Enclosed joint construction for perfectly matched cutters.

No. 349 — Length, 9"each **\$6.80**

No. 88 ELECTRICIANS' HAMMER



Drop forged. Polished finish. NuRed enamel neck and under claw. Best quality hickory handle.

Size	Weight	Carton	Each
1	18 oz.	6	\$4.20

GRIPLOCK CLAMPING TOOL



Operates with one hand, easily, quickly, positively. Has fingertip release, tension adjustment, spring operation and jaw operator. No screws to adjust. Drop forged of high grade steel.

Cat. No.	Size In.	Jaw	Each
910	10	Straight	\$4.90
910-C	10	Curved	4.90

CRESCENT TOOLS

CRESCENT WIRE GRIPS



Parallel jaws give a firm, non-slip grip that will not injure the wire. Safety latch adds strength, prevents grip from dropping off wire. All parts heavily built and drop forged for extra strength.

Each grip tested to full load capacity.

For Bare and Insulated Steel or Copper Wire, With Serrated Jaw

Cat. No.	Capacity Inches	Safe Load Lbs.	Wt. Lbs.	Each
383	5/8 to 1 1/8	5000	1 3/4	\$13.75
384	1/4 to 1/2	7500	3 5/16	17.75
385	3/8 to 3/4	10000	4 7/8	23.10
386	1/8 to 1 1/8	12500	9	44.45

For Aluminum Wire Only

Cat. No.	Description	Each
383-2	Same as 383 but with smooth jaws.....	\$13.75
384-2	Same as 384 but with smooth jaws.....	17.75
385-2	Same as 385 but with smooth jaws.....	23.10
386-2	Same as 386 but with smooth jaws.....	44.45

For Plastic Coated Wire

383-3	Abrasive coated jaw.....	\$16.25
384-3	Abrasive coated jaw.....	20.95
385-3	Abrasive coated jaw.....	26.85
386-3	Abrasive coated jaw.....	57.50

Crescent grips are also available for hot line use. Order 383-HL, 384-HL, etc.

Special grips made to order for large sizes of ACSR from 1 1/8" to 1 1/2". Will fit one size only. Other grips quoted on request.

Cadmium plated finish.

CRESTOLOY LINEMEN'S SIDE CUTTING PLIERS



This tool was designed especially to meet the requirements of linemen. Each one is individually tested for strength and cutting ability. Gun metal with polished head.

Packed one in a box.

Cat. No.	Steel	Size Inches	Wt. Oz. Each	Each
1950	Crestoloy	6	7	\$2.53
1950	Crestoloy	7	10	2.77
1950	Crestoloy	8	16	3.40
1950-6" I	Insulated	6	8	3.27
1950-7" I	Insulated	7	11	3.47
1950-8" I	Insulated	8	17	4.07

CRESTOLOY WRENCHES

Single End Model



Wrenches made of Crestoloy steel are 30 percent thinner than those of ordinary steel. This thinness does not mean less strength, as the Crestoloy wrench is 200 per cent stronger than wrenches of the conventional type. Standard finish is a heavy plating of chromium.

Single End Wrenches

Cat. No.	Size In.	Cap. In.	Thick. of Head		Wt. Pkd.	Each
			Thickest Point	Tip of Jaws		
AC14	4	1/2	10/32	4/32	2 oz.	\$ 1.97
AC16	6	3/4	13/32	7/32	5 oz.	2.00
AC18	8	1 1/8	15/32	8/32	8 oz.	2.27
AC110	10	1 1/8	18/32	12/32	13 oz.	2.89
AC112	12	1 5/8	24/32	15/32	24 oz.	4.20
AC115	15	1 11/16	30/32	19/32	53 oz.	6.33
AC118	18	2 1/8	1- 4/32	22/32	84 oz.	10.65
AC124	24	2 1/8	1-13/32	28/32	9 lb.	18.00

CRESTOLOY DIAGONAL CUTTING PLIERS



These light diagonals are extremely useful tools. They have a good "feel" in the hand, balance nicely and their keen blades cut easily and cleanly. Individually tested. Polished heads, gun metal handles.

Packed one in a box.

Cat. No.	Description	Size Inches	Wt. Oz. Each	Each
942	Crestoloy Steel	4	3	\$2.17
942	Crestoloy Steel	4 1/2	3 1/2	2.11
942	Crestoloy Steel	5	4	2.23
942	Crestoloy Steel	6	6	2.43
942-4" S	With Spring Between Handles			2.37
942-4 1/2" S	With Spring Between Handles			2.31
942-5" S	With Spring Between Handles			2.43
942-6" S	With Spring Between Handles			2.63
942-4" C	With Cushion Grips			2.31
942-4 1/2" C	With Cushion Grips			2.24
942-5" C	With Cushion Grips			2.36
942-6" C	With Cushion Grips			2.56

CRESTOLOY HEAVY DIAGONAL CUTTING PLIERS



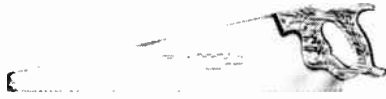
This is one of the most powerful cutting pliers made. Will cut BX armored cable. Edges are keen and strong. Individually tested. Polished head, gun metal handles.

Packed one in a box.

Cat. No.	Description	Size Inches	Wt. Oz. Each	Each
542	Crestoloy Steel	7	8	\$2.36

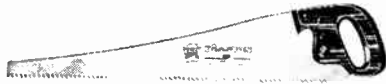
For Your Socket Set Requirements Please Contact Your Local Graybar Office.

DISSTON HAND SAWS



PROFESSIONAL—D-23—26 inch length. Full taper ground, high alloy steel, accurately set and sharpened. Hardwood handle.
 Cross-cut — 8, 10, 11 & 12 pt. Rip — 5½ pt. Ea. \$10.45
GENERAL USE — D-7 — 26 inch length.
 Cross-cut — 8 & 10 pt. Rip — 5½ pt. Ea. \$8.90
MEDIUM GRADE — R-1 — 26 inch length.
 Cross-cut — 8 & 10 pt. Rip — 5½ pt. Ea. \$6.58
FLINTSTONE HARD EDGE—DF-1—26 inch length.
 8 pt. only. Ea. \$9.40
 Packed two in carton — ten in a case.

DISSTON PRUNING SAWS



Professional

	No.	Length	No. in Carton	Each
SINGLE EDGE	No. 32	24 in.	2	\$7.95
DOUBLE EDGE	No. 4	18 in.	5	5.25
" (Economy)	No. K40	18 in.	5	4.10
FOLDING	No. 169	10 in. blade	5	3.95

DISSTON POLE TREE PRUNERS

	No.	Length	Blade Only	Complete
SAW and SHEAR	No. 55	15 in.	\$4.50 ea.	\$12.00 ea.
SHEAR	No. 155	¾" cap.		8.25 ea.
SAW	No. 114	15 in.	3.95 ea.	5.95 ea.

Tools pack two in carton. Blades only—six in box.

DISSTON HACK SAW FRAMES



Adjustable 8, 10, 12 inches; 4 blade positions, steel frame. Sturdy handle grip. Pack ten in a carton.

	No.	Each
PROFESSIONAL	No. 368	\$3.50
TUBULAR	No. 388	2.40
GOOD GRADE	No. 348	2.00
MEDIUM GRADE	No. 338	1.50
ECONOMICAL	No. 328	1.00

DISSTON STEEL HAND HACK SAW BLADES



½" wide, .025 thick. Pack 100 in box.

Length (in.)	Teeth per in.	Duraflex Special Alloy No.	Each	Di-Mol Molybdenum No.	Each	Super Safe High Speed No.	Each
10	18	F1018	.16	D1018	.64	S1018	.64
10	24	F1024	.16	D1024	.64	S1024	.64
10	32	F1032	.16	D1032	.64	S1032	.64
12	14	F1214	.20	D1214	.78	S1214	.78
12	18	F1218	.20	D1218	.78	S1218	.78
12	24	F1224	.20	D1224	.78	S1224	.78
12	32	F1232	.20	D1232	.78	S1232	.78

DISSTON CIRCULAR SAW BLADES

ALL BLADES HAVE UNIVERSAL ARBOR



STYLE "L"—FLOORING

No.	Diam., in.	Teeth	Each
DFL6004	6	60	\$2.75
DFL6404	6½	60	3.10
DFL7204	7¼	70	3.10



STYLE "A"—RIP

No.	Diam., in.	Teeth	Each
DA6004	6	40	\$2.75
DA6404	6½	36	3.10
DA7204	7¼	36	3.10



STYLE "W"—COMBINATION

No.	Diam., in.	Teeth	Each
DW6004	6	20	\$2.75
DW6404	6½	20	3.10
DW7204	7¼	24	3.10



STYLE "Q"—PLYWOOD

No.	Diam., in.	Teeth	Each
DQ6404	6½	60	\$6.40
DQ7204	7¼	72	6.40



STYLE "S"—PLANER

No.	Diam., in.	Sections	Each
DPS6004	6	10	\$4.75
DPS6404	6½	10	5.25
DPS7204	7¼	10	5.25

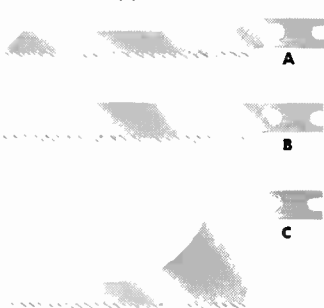
FLINTSTONE HARD EDGE BLADES

STYLE "W" COMBINATION 5/8" ARBOR

No.	Diam., in.	Teeth	Each
FW6405C	6½	20	\$1.64
FW7205	7¼	24	1.78
FW8005	8	30	1.96

DISSTON SABRE SAW BLADES

¼" Shank



WOOD CUTTING

Cat. No.	Length (in.)	Teeth Per inch	Blade Shape	Each
BP6794	4	6	B	.45
BP6792	3	7	A	.45
BP6791	3	10	A	.45
BP6793	3	12	A	1.30

METAL CUTTING

Cat. No.	Length (in.)	Teeth Per inch	Blade Shape	Each
BP6796	3	6	B	.50
BP6797	3	14	B	.50
BP6798	3	18	B	.50
BP6799	3	32	B	.50

SPECIAL PURPOSE KNIFE

BP6795	2 1/8			.45
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½" Shank for Reciprocating Saws



WOOD CUTTING

Cat. No.	Length (in.)	Teeth Per inch	Blade Shape	Each
BP6764	6	4	E	.70
BP6766	10	6	E	.90
BP6759	12	6	E*	1.50
BP6763	3	7	F	.75
BP6768	12	7	E	1.50
BP6765	6	10	E	.90
BP6767	10	10	E	.90
BP6769	12	10	E	1.50

METAL CUTTING

Cat. No.	Length (in.)	Teeth Per inch	Blade Shape	Each
BP6770	8	10	E	1.35
BP6771	6	14	E	1.30
BP6773	4	18	D	1.25
BP6772	6	18	E	1.30
BP6774	4	24	D	1.25
BP6775	4	32	D*	1.25

CAPEWELL HAND HACK SAW BLADES



TECHNITE®

Tough, long life blades for use on the most difficult applications. Cuts the hardest metals such as chrome, chrome-steel and the special alloys.

Catalog Number	Length	Width	Thickness	Teeth Per Inch	Each
1018T	10"	1/2"	.025"	18	\$0.65
1024T	10"	1/2"	.025"	24	.65
1032T	10"	1/2"	.025"	32	.65
1214T	12"	1/2"	.025"	14	.78
1218T	12"	1/2"	.025"	18	.78
1224T	12"	1/2"	.025"	24	.78
1232T	12"	1/2"	.025"	32	.78



SAFETECH®

Shatterproof safety blades with hardened teeth and soft backs. Handles hard metals without stripping teeth. Safe for use where operator is in awkward position, such as on step ladder.

Catalog Number	Length	Width	Thickness	Teeth Per Inch	Each
1018S	10"	1/2"	.025"	18	\$0.65
1024S	10"	1/2"	.025"	24	.65
1032S	10"	1/2"	.025"	32	.65
1214S	12"	1/2"	.025"	14	.78
1218S	12"	1/2"	.025"	18	.78
1224S	12"	1/2"	.025"	24	.78
1232S	12"	1/2"	.025"	32	.78



FLEX-TUNG

Alloy blades with soft back but hardened teeth. Expendable type blade because of low cost.

Catalog Number	Length	Width	Thickness	Teeth Per Inch	Each
1018F	10"	1/2"	.025"	18	\$0.17
1024F	10"	1/2"	.025"	24	.17
1032F	10"	1/2"	.025"	32	.17
1214F	12"	1/2"	.025"	14	.21
1218F	12"	1/2"	.025"	18	.21
1224F	12"	1/2"	.025"	24	.21
1232F	12"	1/2"	.025"	32	.21



HIGH SPEED

All hard blade similar to Technite but made from Tungsten (18-4-1) High Speed Steel. For use on toughest metals.

Catalog Number	Length	Width	Thickness	Teeth Per Inch	Each
1018H	10"	1/2"	.025"	18	\$0.79
1024H	10"	1/2"	.025"	24	.79
1032H	10"	1/2"	.025"	32	.79
1214H	12"	1/2"	.025"	14	.94
1218H	12"	1/2"	.025"	18	.94
1224H	12"	1/2"	.025"	24	.94
1232H	12"	1/2"	.025"	32	.94

CAPEWELL QUICK-CHANGE HOLE SAWS



New deep cutting models enable you to cut through a 2 x 4. New arbor lets you change saws in seconds. No tools required. Simply turn the knurled disc, and spring actuated drive pins release THE HOLE SAW CUP AUTOMATICALLY.

ARBORS, complete with high speed pilot drills

Catalog Number	For Chuck	Fits Saw Number	Follows Through	Shank	Each
S0	1/4"	S09 - S19	S13 - S19	1/4" Round	\$2.55
S1	1/2"	S09 - S19	S13 - S19	3/16" Hex	3.60
*S2	1/2"	S20 - S96	S24 - S96	3/16" Hex	5.70
*S3	3/4"	S20 - S96	S24 - S96	3/16" Hex	5.70

* Indicates quick-change models.

SAFETECH® INDIVIDUAL HOLE SAWS

All saws 6 teeth per inch

Diameter	Catalog Number	PIPE SIZES		Regular Each	Deep Hole Each
		Pipe Tap	Pipe Entrance		
9/16"	S09	—	—	\$3.75	.....
5/8"	S10	—	—	2.81	.....
11/16"	S11	—	—	2.81	.....
3/4"	S12	—	3/8"	2.81	.....
13/16"	S13	—	—	2.81	.....
7/8"	*S14	3/4"	1/2"	2.81	\$3.80
15/16"	S15	—	—	2.81	.....
1"	*S16	—	—	3.00	4.40
1 1/16"	S17	—	—	3.00	.....
1 1/8"	*S18	1"	3/4"	3.00	4.60
1 1/16"	S19	—	—	3.00	.....
1 1/4"	*S20	—	—	3.00	5.00
1 3/16"	S21	—	—	3.00	.....
1 3/8"	*S22	—	1"	3.19	5.10
1 7/16"	S23	—	—	3.19	.....
1 1/2"	*S24	1 1/4"	—	3.19	5.40
1 5/16"	S25	—	—	3.19	.....
1 5/8"	S26	—	—	3.19	.....
1 11/16"	S27	—	—	3.19	.....
1 3/4"	*S28	1 1/2"	1 1/4"	3.94	5.60
1 13/16"	S29	—	—	3.94	.....
1 7/8"	S30	—	—	3.94	.....
2"	*S32	—	1 1/2"	3.94	5.80
2 1/16"	S33	—	—	4.88	.....
2 1/8"	S34	—	—	4.88	.....
2 1/4"	*S36	2"	—	4.88	6.40
2 3/16"	S37	—	—	4.88	.....
2 3/8"	S38	—	—	4.88	.....
2 1/2"	*S40	—	2"	5.25	7.00
2 9/16"	S41	—	—	5.25	.....
2 5/8"	S42	—	—	5.25	.....
2 3/4"	S44	—	—	5.25	.....
2 7/8"	S46	—	—	5.25	.....
3"	*S48	—	2 1/2"	5.44	7.80
3 1/8"	S50	—	—	5.44	.....
3 1/4"	S52	3"	—	5.44	.....
3 3/8"	*S54	—	—	5.44	8.40
3 1/2"	S56	—	—	5.44	.....
3 5/8"	S58	—	3"	6.38	.....
3 3/4"	S60	3 1/2"	—	7.50	.....
3 7/8"	S62	—	—	7.88	.....
4"	S64	—	—	8.25	.....
4 1/8"	S66	—	3 1/2"	9.00	.....
4 1/4"	S68	—	—	11.70	.....
4 3/8"	S70	—	—	13.95	.....
4 1/2"	S72	—	4"	16.20	.....
4 3/4"	S76	—	—	18.00	.....
5"	S80	—	—	19.95	.....
5 1/2"	S88	—	—	23.85	.....
6"	S96	—	—	27.90	.....

* Available in regular (1 1/2" cutting depth) and deep hole cutting (1 3/4") models. Add "D" to catalog number when ordering deep cutting hole saws. Example: S14D.

IDEAL FISH TAPE REELS AND PULLERS



Invaluable for building construction and industrial work. Reel serves as handle to give a firm grip in pulling on fish tape, eliminating special pullers, or dangerous bare-hand pulling. Saves 50% of workman's time. Keeps tape fully protected. Tape

is locked in reel when not in use and cannot spring loose.

Cat. No.	Lgth. and Size of Tape	Each
31-007	50 ft. x 1/8 x .045 (3/8")	\$3.30
31-008	50 ft. x 1/8 x .060 (1/8")	4.80
31-009	100 ft. x 1/8 x .060 (1/8")	8.15
31-011	100 ft. x 1/4 x .060 (1/8")	9.80
31-016	200 ft. x 1/8 x .060 (1/8")	11.95

IDEAL FISH TAPES

Highest grade tempered spring steel is used. No curling. Flexible and easy to use on long runs of conduit having several bends.

Cat. No.	Lgth. and Size of Tape	Each
31-004	50 ft. x 1/8 x .060 (1/8")	\$2.05
31-036	100 ft. x 1/8 x .060 (1/8")	3.60
31-038	200 ft. x 1/8 x .060 (1/8")	7.05
31-050	100 ft. x 1/4 x .060 (1/8")	5.70
31-052	200 ft. x 1/4 x .060 (1/8")	11.30
31-078	50 ft. x 1/8 x .045 (3/8")	1.70
31-079	100 ft. x 1/8 x .045 (3/8")	3.00
31-082	Fish Tape Leader	2.95
31-083	Fish Tape Ball (for flat tape)	1.15

IDEAL FISH TAPE WINDERS

This handy attachment will make your Ideal Fish Tape Reel easier and safer to use. Fits completely around reel and provides comfortable hand grip for sure, safe handling. Easy to use. Simply "push" to wind and "pull" to unwind. Saves on tape, helps prevent kinks. For use on reels with flat tapes. Made of tough Lexan* plastic.



Cat. No.	Description	Each
31-183	For 8 7/8" Reels No. 31-008 & 31-408	\$2.90
31-184	For 12" Reels No. 31-009, -011, -016, -409, -416	2.90

*Registered Trademark of General Electric Co.

IDEAL VOLTAGE TESTER



Safest, easiest-to-use voltage tester made. Designed for rugged daily use. Tests for: Voltage (110 to 550V. AC; 110 to 600V. DC), Frequency (25 to 60 Cycles), AC or DC, Circuit Continuity, DC Polarity, Blown Fuses, Grounding or Leakage. Solenoid calibrated voltage indicator functions separately from neon test lamp for safety. Case is seamless plastic with no surface metal. Yellow in color for safety. Prods have no-slip grips and 30" polychloroprene leads. Handy dual mounts allow placement of prod in either side of case. When tester is not in use

mounting wells provide storage space for prods.

Cat. No.	Description	Each
61-055	Tester, 2 prods	\$8.25
61-056	Tester, 1 prod, 1 ins. clip	9.75
61-057	Special Tester†, 2 prods	9.25
61-009	Vinyl Plastic Carrying Case	1.35
61-010	H-D Leather Carrying Case	2.75

†Has all the extra-safe features of above models, plus special current-limiting resistors in each prod. Resistors act as fuses in case of accidental shorts or breakdowns, and limit current in leads to prevent dangerous arcing. Lexan* case.

IDEAL ELECTRICIANS' PLIERS

WITH CRIMPING DIE



8 1/2" Electricians' Pliers with built-in crimping die — can be used for crimping Ideal Crimp Connectors. New England nose easily gets into hard-to-reach places, can be used for twisting wires and deburring conduit. Special plastic grips giving comfortable, powerful hold. Shipping wt. 1 lb.

No. 30-420 Pliers.....each \$4.75

IDEAL LOW COST T-TYPE WIRE STRIPPERS

A handy addition to every electricians' tool kit. Sturdy, compact, constructed of hardened steel for rugged duty and long service. Comfortable plastic grips for sure handling and safety. Also used for cutting and "looping" wires. Overall size: 6". Flat design for convenient fit in pocket or tool kit.



Cat. No.	Description	Each
45-120	For #10 to 18 ga. solid wire	\$1.95
45-121	For #16 to 26 ga. str. wire	1.95

IDEAL STRIPMASTER® WIRE STRIPPER



The only hand type wire stripper with automatic single-squeeze operation. Exclusive automatic feature holds jaws open after stripping to permit removal of wire and prevent crushing. A single squeeze of the handles strip wire clean up to a full 7/8". No nicking or fraying.

Blades can be changed with the removal of only two screws.

Strips building, fixture or telephone wire. Automotive, radio and aviation wire.

Cat. No.	Wire Gauge	Weight	Each
45-090	8 to 12	14 oz.	\$5.95
45-091	10 to 18	14 oz.	5.95
45-092	10 to 22	14 oz.	5.95
45-093	14 to 22	14 oz.	5.95
45-095	SP & SPT	14 oz.	5.95
45-097	16 to 26	14 oz.	5.95
L-5270	Adjustable Wire Stop		1.00
	Extra Blades for Stripmaster (pr.)		1.25

IDEAL CONTINUITY TESTER



Unit is powered with two pen-lite batteries and gives light signal to indicate completed circuit. Has 4' removable cord equipped with alligator clip. 5 1/2" long, weight, 3 oz.

No. 61-030 Tester (less batteries).....each \$2.75

IDEAL TEST-GLO™



Circuit tester for 80 to 600V. AC or DC. Long, thin handles permit deep probing and have "no-slip" safety rings. 24" lead wire (rated 10,000V) permits wide span. Cement sealed and moisture proof.

No. 61-040 Test-Glo Tester.....each \$2.75

KLEIN PLIERS

HIGH LEVERAGE PLIER

U.S. Patent No. 2,746,145
Con No. 532,760



Cat. No.	Length	Each
D213-9	9 1/2"	\$6.90
213-9	Plain hand.	6.60

HIGH LEVERAGE PLIER

U.S. Patent No. 2,746,145
Con No. 532,760



Cat. No.	Length	Each
D213-8NE	8 1/2"	\$6.50
HD213-8NE	Hi-Di hand.	6.60
213-8NE	Plain hand.	6.20
D213-9NE	9 1/4"	6.90
HD213-9NE	Hi-Di hand.	7.00
213-9NE	Plain hand.	6.60

THREAD-HOLDING HIGH LEVERAGE PLIER NE TYPE (STREAMLINED)

U.S. Patent No. 2,746,145
Con No. 532,760



Cat. No.	Length	Each
D213-9NE-TH	9 1/4"	\$8.10
HD213-9NE-TH	Hi-Di hand.	8.20
213-9NE-TH	Plain hand.	7.80

SIDE CUTTING PLIER



Cat. No.	Length	Each
D201-6	6 1/4"	\$4.55
201-6	Plain hand.	4.25
D201-7	7 1/4"	4.90
201-7	Plain hand.	4.60
D201-8	8 1/2"	5.80
201-8	Plain hand.	5.50
D201-9	9 1/4"	6.45
201-9	Plain hand.	5.95

SIDE CUTTING PLIER N.E. TYPE (STREAMLINED)



Cat. No.	Length	Each
D201-6NE	6 1/4"	\$4.55
201-6NE	Plain hand.	4.25
D201-7NE	7 1/4"	4.90
201-7NE	Plain hand.	4.60
D201-8NE	8 1/2"	5.70
201-8NE	Plain hand.	5.40
D201-9NE	9 1/4"	6.25
201-9NE	Plain hand.	5.95

OBLIQUE CUTTING PLIER

Heavy Duty Pattern



Cat. No.	Length	Each
D220-7	7 3/4"	\$4.80
220-7	Plain hand.	4.50

HIGH LEVERAGE OBLIQUE CUTTING PLIER



Cat. No.	Length	Each
D228-8	8"	\$4.40

HIGH LEVERAGE OBLIQUE CUTTING PLIER

Bent Handles—Knives with Top Bevel



Cat. No.	Length	Each
D248-8	8"	\$4.70

OBLIQUE CUTTING PLIER

Short Nose Heavy-Duty Pattern



Cat. No.	Length	Each
D220-7SN	7 1/4"	\$4.90
220-7SN	Plain hand.	4.60

OBLIQUE CUTTING PLIER



Cat. No.	Length	Each
D245-5	5"	\$3.95
D245-5C	Coil spring	4.25
245-5	Plain hand.	3.80

OBLIQUE CUTTING PLIER

Narrow Nose



Cat. No.	Length	Each
D202-5	5 1/2"	\$3.95
D202-5C	Coil spring	4.25
202-5	Plain hand.	3.80
202-5C	Coil spring	4.10
D202-6	6"	4.00
D202-6C	Coil spring	4.30
202-6	Plain hand.	3.85
202-6C	Coil spring	4.15

OBLIQUE CUTTING PLIER

Heavy-Duty Pattern



Cat. No.	Length	Each
D252-6	6"	\$4.25
252-6	Plain hand.	4.10

OBLIQUE CUTTING PLIER

Flush Cutting—For printed circuit



Cat. No.	Length	Each
D210-5	5 1/2"	\$4.05
D210-5C	Coil spring	4.25
D210-6	6"	4.10
D210-6C	Coil spring	4.55

OBLIQUE CUTTING PLIER

Bell System Type
With "W" Stripping Notches, Sleeve Openings, and .052" Skinning Hole



Cat. No.	Length	Each
D202-5-SW	5 1/2"	\$4.65
202-5-SW	Plain hand.	4.50
D252-6-SW	6"	4.85
252-6-SW	Plain hand.	4.70

OBLIQUE CUTTING PLIER

With .052" Skinning Hole



Cat. No.	Length	Each
D240-5	5 1/2"	\$4.45
240-5	Plain hand.	4.30
D240-6	6"	4.50
240-6	Plain hand.	4.35

OBLIQUE CUTTING PLIER

Bell System Type
"W" Notch to slit insulation, "V" Notch to crush insulation.



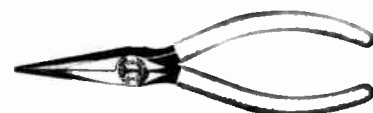
Cat. No.	Length	Each
D528-V	5"	\$4.95
528-V	Plain hand.	4.80

HIGH LEVERAGE END CUTTING PLIER



Cat. No.	Length	Each
D232-8	7 3/4"	\$5.35

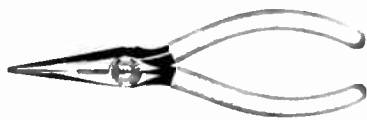
LONG NOSE PLIER



Cat. No.	Length	Each
D301-5	5 1/2"	\$3.30
D301-5C	Coil spring	3.60
301-5	Plain hand.	3.15
D301-6	6 1/2"	3.40
D301-6C	Coil spring	3.70
301-6	Plain hand.	3.25
301-6C	Plain hand., coil spring	3.55
	7"	3.55
D301-7	Coil spring	3.85
D301-7C	Plain hand.	3.40
301-7		

KLEIN PLIERS

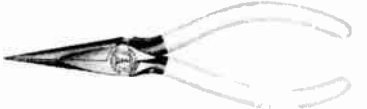
LONG NOSE SIDE CUTTING PLIER



Cat. No.	Length	Each
D203-5	5½"	\$3.75
D203-5C	Coil spring	4.05
203-5	Plain hand.	3.60
D203-6	6½"	3.95
D203-6C	Coil spring	4.15
203-6	Plain hand.	3.80
203-6C	Coil spring,	4.10
	coil spring	4.45
D203-7	7"	4.45
D203-7C	Coil spring	4.75
203-7	Plain hand.	4.30

LONG NEEDLE NOSE PLIER

Point 1/16" diameter



Cat. No.	Length	Each
D303-6	6½"	\$3.40
303-6	Plain hand.	3.25

CHAIN NOSE PLIER



Cat. No.	Length	Each
D317-6	6"	\$3.45
D217-6	6"	4.15

With side cutting knives

8 IN. LONG NOSE PLIER



Cat. No.	Length	Each
D314-8	8"	\$4.65

With knurl

8 IN. DUCK BILL PLIER



Cat. No.	Length	Each
D315-8	8"	\$4.75
D312-8	With Knurl	4.75
	8"	
	Without Knurl	

LONG NOSE CUTTING PLIER

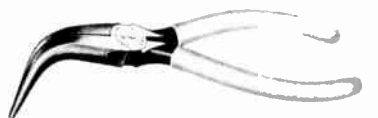
Heavy-Duty



Cat. No.	Length	Each
D203-8	8½"	\$5.80
203-8	Plain hand.	5.30
D203-8N	8½"	6.00
203-8N	Plain hand.	5.70

N has skinning knife for #12 B&S insulated wire

CURVED NOSE PLIER



Cat. No.	Length	Each
D302-6	6"	\$4.25
302-6	Plain hand.	4.10

DUCK BILL PLIER

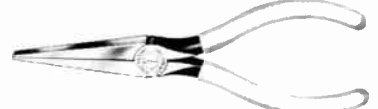
Inside jaws polished



Cat. No.	Length	Each
D306-5½	5¾"	\$4.00
D306-5½C	Coil spring	4.30

DUCK BILL PLIER

Inside jaws smooth

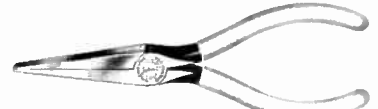


Cat. No.	Length	Each
D304-6	6½"	\$3.60
D205-6	6½"	4.35

Side cutting knives

FLAT NOSE PLIER

Inside Jaws Knurled



Cat. No.	Length	Each
D305-6	6½"	\$3.70
D206-6	6½"	4.35

Side cutting knives

RELAY SPRING ADJUSTING PLIER

Inside Jaws Polished



Cat. No.	Length	Each
D325-5	5"	\$4.80

SPRING ADJUSTING PLIER

Inside Jaws Polished



Cat. No.	Length	Each
D326-5	5¾"	\$4.80

RELAY SPRING ADJUSTING PLIER

Hollow ground on outside of jaws
Inside Jaws Polished



Cat. No.	Length	Each
D311-5½	5¾"	\$4.25
311-5½	Plain hand.	4.10

LAMP CAP EXTRACTOR



Cat. No.	Length	Each
D319-B	5¾"	\$4.20

LONG NOSE INSULATION SKINNER

Designed to skin 22 or 24 gauge wire
Nose designed to crack insulation



Cat. No.	Length	Each
D2291	6"	\$4.20

SPECIAL SKINNING PLIER

Designed for cutting and skinning 24 gauge synthetic coated wire. Notch back of cutting blade crushes insulation.



Cat. No.	Length	Each
D317-5P	5¾"	\$5.10

OBLIQUE CUTTING PLIER

Semi-Flush Cutting



Cat. No.	Length	Each
D257-4	4"	\$3.35
D257-4C	Coil spring	3.65

LONG NOSE PLIER



Cat. No.	Length	Each
D321-4½	4¾"	\$3.00
D321-4½C	Coil spring	3.30
D322-4½	4¾"	3.20
D322-4½C	Coil spring	3.50

(D322-4½ and D322-4½C without knurl and with jaws radiused.)

FLAT NOSE PLIER

Inside Jaws Polished



Cat. No.	Length	Each
D323-4½	4¾"	\$3.00
D323-4½C	Coil spring	3.30

TRANSVERSE END CUTTING PLIER

Semi-Flush Cutting



Cat. No.	Length	Each
D224-4½	4½"	\$3.80
D224-4½C	Coil spring	4.10
D204-6C	6¾"	4.70

Coil spring

KLEIN PLIERS

OBLIQUE CUTTING PLIER

Lightweight, Pointed Nose, Flush Cutting



Cat. No.	Length	Each
D209-4	4"	\$4.20
D209-4C	Coil spring	4.50
D209-5	5"	4.45
209-5	Plain hand.	4.30
D209-5C	Plastic hand., Coil spring	4.75
209-5C	Plain hand., Coil spring	4.60

HIGH HARDNESS PLIER

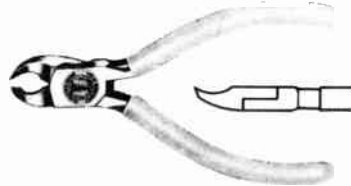
Knives Rockwell C60. Bevel less than .005 in.



Cat. No.	Length	Each
D230-4C	4" Coil spring	\$6.60

MATRIX CUTTER

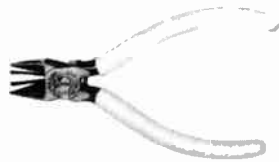
Advantages of end cutter and diagonal cutter. High hardness blade for cutting nickel wire.



Cat. No.	Length	Each
D263-4C	4"	\$9.00

WIRE GRIPPING OBLIQUE CUTTER

Flush Cutting



Cat. No.	Length	Each
D229-5C	5"	\$7.80

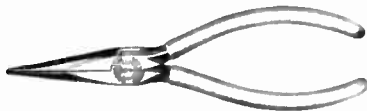
OBLIQUE CUTTING PLIER

Flush Cutting—relieved in back



Cat. No.	Length	Each
D219-4	4"	\$4.40
D219-4C	Coil spring	4.70
D219-5C	5" Coil spring	4.95

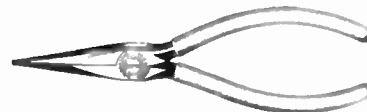
SLIM LONG NOSE PLIER



Cat. No.	Length	Each
D307-5½	5½"	\$3.40
D307-5½C	Coil spring	3.70

SLIM NOSE PLIER

Jaws polished—edges radiused—no knurl



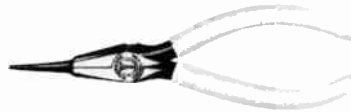
Cat. No.	Length	Each
D327-5½C	5½" Coil spring	\$4.00

LONG NEEDLE NOSED SIDE CUTTER



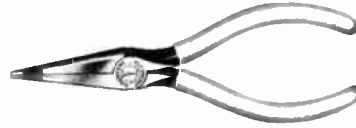
Cat. No.	Length	Each
D221-5½C	5½" Coil spring	\$4.50

NEEDLE NOSE PLIER



Cat. No.	Length	Each
D301-6-SCPC	6½"	\$4.30
D203-6-SCPC	Coil spring 6½"	4.90
	Coil spring With cutting knives	

LONG NOSE PLIER KNIFE AT POINT



Cat. No.	Length	Each
D301-6PC	6½" Coil spring	\$5.30

LONG NOSE PLIER KNIFE AT POINT



Cat. No.	Length	Each
D317-6PC	6" Coil spring	\$5.00

SLIM LONG NOSE PLIER



Cat. No.	Length	Each
D310-6C	6½" Coil spring	\$3.80

CHAIN NOSE PLIER



Cat. No.	Length	Each
D317-5C	5½" Coil spring	\$3.65

NEEDLE NOSE ELECTRONIC PLIER

U.S. Pat. No. 2,903,790



Cat. No.	Length	Each
D261-6C	6½" Coil spring	\$6.20

END CUTTING TRIMMER PLIER

For printed circuit and repairing electronic systems



Cat. No.	Length	Each
D211-6C	6½" Coil spring	\$5.20

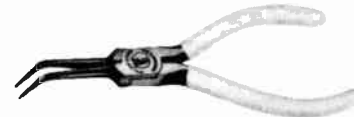
LONG NEEDLE NOSE PLIER



Cat. No.	Length	Each
D318-5½	5½"	\$3.65
D318-5½C	Coil spring	3.95

CURVED NEEDLE NOSE PLIER

Inside jaws polished and edges radiused



Cat. No.	Length	Each
D338-5½C	5½" Coil spring	\$5.40

LONG NEEDLE NOSE PLIER

Jaws polished—edges radiused—no knurl



Cat. No.	Length	Each
D328-5½C	5½" Coil spring	\$4.40

KLEIN EQUIPMENT

"KLEIN-KOAT" TENITE HANDLES



Cat. No.	Size	Pair
60	To fit 6" pliers	\$0.70
70	To fit 7" pliers	.75
89	To fit 8"-9" pliers	.80

COMFORT GRIP HANDLES



Cat. No.	Size	Pair
55	To fit 5"-6½" pliers	\$0.30

SLIP-ON HANDLES



Cat. No.	Size	Pair
34	To fit 4"-4½" pliers	\$0.15
35	To fit 5"-5½" pliers	.18
36	To fit 6"-6½" pliers	.20

SIX-INCH PLIER



Cat. No.	Length	Max. Cap.	Price Each
502-6	6½"	1"	\$2.45
D502-6	Plastic handle	1"	2.70

PUMP PLIER



Cat. No.	Length	Max. Cap.	Each
502-10	10"	1¾"	\$3.60
502-12	12"	2½"	4.05

INSULATED HANDLE PUMP PLIER

Cat. No.	Length	Max. Cap.	Each
D502-10	10"	1¾"	\$3.85
D502-12	12"	2½"	4.50
D502-16	16"	4¼"	6.20
HD502-10	10"	1¾"	4.00
HD502-12	12"	2½"	4.80

HD pliers hi-dielectric

HACK SAWS



Cat. No.	Blade Length	Each
701-10	10"	\$5.00
701-12	12"	5.00
701-TH	12"	5.30

701-TH has retaining pin threaded to prevent dropping out

COMPASS SAW

Supplied without blades



Cat. No.	Handle Length	Each
702	5"	\$1.95

JAB SAW



Cat. No.	Length	Each
703	10½"	\$3.90

HACK SAW BLADES

Carbon steel

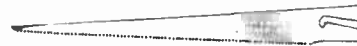


Cat. No.	Length	Teeth	Each
1018C	10"	18T	\$0.16
1024C	10"	24T	.16
1032C	10"	32T	.16
1218C	12"	18T	.17
1224C	12"	24T	.17
1232C	12"	32T	.17

High speed

Cat. No.	Length	Teeth	Each
1018-HS	10"	18T	.66
1024-HS	10"	24T	.66
1032-HS	10"	32T	.66
1218-HS	12"	18T	.78
1224-HS	12"	24T	.78
1232-HS	12"	32T	.78

COMPASS SAW BLADES



Cat. No.	Length	Teeth	Each
704	12"	8T	\$1.50
705	12"	10T	1.55
706	8"	10T	1.40
707	10"	10T	1.45

ADJUSTABLE WRENCHES



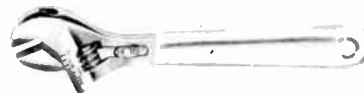
Cat. No.	Size	Capacity	Each
500-4	4"	½"	\$3.05
500-6	6"	¾"	3.10
500-8	8"	1½/16"	3.50
500-10	10"	1½"	4.40
500-12	12"	1½/16"	6.40
500-15	15"	1½/16"	9.70

HI-DIELECTRIC PLASTIC COVERED HANDLES



Cat. No.	Size	Capacity	Each
D500-4	4"	½"	\$3.50
D500-6	6"	¾"	3.55
D500-8	8"	1½/16"	4.00
D500-10	10"	1½"	5.00
D500-12	12"	1½/16"	7.40
D500-15	15"	1½/16"	10.70

ADJUSTABLE LOCKING WRENCHES



Cat. No.	Size	Capacity	Each
D500-8L	8"	1½/16"	\$5.15
D500-10L	10"	1½"	5.90
*D500-12L	12"	1½"	8.10

*Extra capacity for line work

KLEIN EQUIPMENT

CUSHION GRIP SCREWDRIVER
Patent No. 2,871,899



Cat. No.	Blade	Each
600-1 stubby	1 1/4" x 1/4"	\$1.10
600-4	4" x 1/8"	1.55
600-6	6" x 5/16"	2.00
600-8	8" x 3/8"	2.50

HEAVY-DUTY ROUND SHANK

Cat. No.	Blade	Each
602-3	3" x 3/16"	\$1.40
602-4	4" x 1/4"	1.40
602-6	6" x 5/16"	1.70
602-8	8" x 3/8"	2.20

ELECTRICIANS AND TELEPHONE ROUND SHANK

Cat. No.	Blade	Each
601-3	3" x 3/16"	\$1.15
601-4	4" x 3/16"	1.20
601-6	6" x 3/16"	1.20
601-8	8" x 3/16"	1.30
601-10	10" x 3/16"	1.45

SUPER-HARD PHILLIPS

Cat. No.	Blade	Each
603-1 #2 point stubby	1 1/8" x 1/4"	\$1.25
603-3 #1 point	3" x 3/16"	1.15
603-4 #2 point	4" x 1/4"	1.40
603-6 #3 point	6" x 3/16"	2.00

ELECTRICIANS CABINET POINT

Cat. No.	Blade	Each
605-4	4" x 1/4"	\$1.50
605-6	6" x 1/4"	1.60

INSULATED SHANK SCREWDRIVER



Cat. No.	Blade	Each
620-3	3" x 3/16"	\$2.00
620-4	4" x 1/4"	2.00
620-6	6" x 5/16"	2.50
620-8	8" x 3/8"	2.90

NARROW BLADE

Cat. No.	Blade	Each
621-3	3" x 3/16"	\$2.00
621-6	6" x 3/16"	2.05
621-8	8" x 3/16"	2.10
621-10	10" x 3/16"	2.20

CUSHION GRIP NUT DRIVER



Cat. No.	Shank	Nut Size	Each
630-3/16	3 1/8"	3/16"	\$1.20
630-1/4	3 1/8"	1/4"	1.20
630-3/16	3 1/8"	5/16"	1.20
630-11/32	3 1/8"	11/32"	1.20
630-3/8	3 1/8"	3/8"	1.45
630-7/16	3 1/2"	7/16"	1.70
630-1/2	3 1/2"	1/2"	1.70
631 set of 7 drivers			9.70

SCRATCH AWL



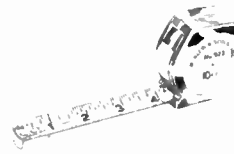
Cat. No.	Length	Each
650	7"	\$1.45

ALL PURPOSE 6-IN-ONE TOOL



Cat. No.	Length	Each
1000	7 1/2"	\$4.95

POWER RETURN TAPE RULE



Cat. No.	Length	Each
922-10	10'	\$3.60
922-12	12'	4.20
923-10	10'	1.70
923-12	12'	1.90

PUSH-PULL TAPE RULE



Cat. No.	Length	Each
920-6	6'	\$1.70
920-8	8'	2.00
921-6	6'	1.00
921-8	8'	1.10

STEEL TAPE



Cat. No.	Length	Each
940-50	50'	\$6.00
940-100	100'	8.30

HEAVY-DUTY EXTENSION RULE



Cat. No.	Length	Each
905-6	6'	\$3.30

STANDARD WOOD RULE



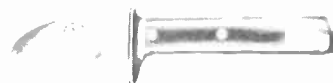
Cat. No.	Length	Each
900-6	6'	\$2.30

SLITTING TOOL



Cat. No.	Length	Each
1558	4 1/2" x 2 1/2"	\$3.80
058-K	Replacement knife and roll pin	1.40

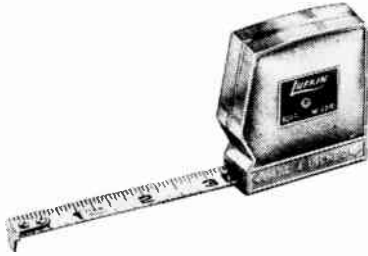
PLASTIC HANDLE SKINNING KNIFE



Cat. No.	Blade	Each
1570-3	3"	\$3.20
1570-3LR	As above without ring	3.20

LUFKIN TAPES

"MEZURALL" WHITE CLAD TAPES

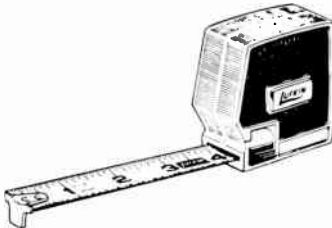


Case fits comfortably into hand. Bright chrome finish. Improved, removable belt clip. Replaceable blade. Self adjusting end hood. Epoxy coating has unsurpassed blade protection. Hang-up display card. Packed six per box.

Color blocks flag each foot and 16" centers. Red figures identify inches in each foot. Consecutive inch figures in black. Graduated both edges to 16ths inch; first 12 inches bottom edge to 32nd inch. 1/2" wide blade.

Cat. No.	Lgth. Ft.	Wt. Lbs. Per Box	Each
W926	6	1 1/4	\$1.00
W928	8	1 1/2	1.17
W9210	10	1 3/4	1.43
W9212	12	1 5/8	1.67

"LOKMATIC" WHITE CLAD TAPES



Push-button (power) rewind. Release pressure, blade stops and holds position. Lever-lock for extra-positive hold. Bright chrome diecast case with black trim. Self-adjusting end-hook. Epoxy coating has unsurpassed blade protection. Improved, removable belt clip. Hang-up display package. Packed six per box.

Color blocks flag each foot and 16" centers. Red figures identify inches in each foot. Consecutive inch figures in black. Graduated both edges to 16ths inch; first 12 inches bottom edge to 32nds inch. 1/2" wide blade.

Cat. No.	Lgth. Ft.	Wt. Lbs. Per Box	Each
W728	8	3	\$1.50
W7210	10	3 1/8	1.73
W7212	12	3 3/8	2.00

"BANNER" WHITE CLAD STEEL TAPES



Black markings on white finish. Feet and inches to 8ths. 16" centers marked. Red foot figures repeated each inch. Folding hood ring. Vinyl covered steel case. Nickel plated fittings. One per box. 3/8" wide.

Cat. No.	Lgth. Ft.	Wt. Lbs. Per Box	Each
HW220	25	3/4	\$3.50
HW223	50	1 1/8	4.20
HW225	75	1 1/4	5.00
HW226	100	1 1/2	5.94

"METALLIC" WOVEN TAPES

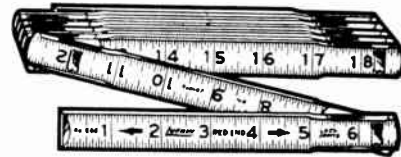


Woven tape, of tough fiber with metallic strands. Extra reinforcement first end. Red to indicate "Metallic." Large markings. Feet, inches and quarter inches. Numbers with suffix "D" marked feet, tenths, and half tenths. Genuine leather over steel case liner. Nickel trim. Packed one per box. 5/8" wide.

Cat. No.	Lgth. Ft.	Wt. Lbs. Per Box	Each
500	25	1 1/8	\$ 6.27
503, 503D	50	1	8.80
505, 505D	75	1 1/8	11.60
506, 506D	100	1 1/2	14.47

LUFKIN RULES

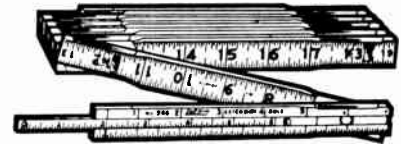
"REGULAR" FOLDING RULE — RED END



Sections 5/8" wide. Six inch folds. White finish. Marked both edges, both sides. Markings embedded into wood. 16" centers marked in red. Blade and markings protected by longer wearing epoxy finish. Solid brass joints, strike plates, end caps. Packed six per box.

Regular Markings	Inside Markings	Lgth. Ft.	Wt. Lbs. Per Box	Each
066	066F	6	1 3/4	\$1.50

EXTENSION RULE — RED END

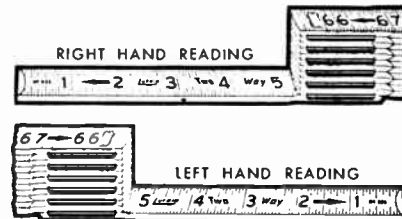


Boxwood finish. Heavy duty. 1/8" thick sections. Marked both edges, both sides. Markings embedded into wood. Consecutive inches to 16ths. 16" centers marked in red. Blade and markings protected by epoxy finish. Graduated brass slide. Six inch folds. Rivet joints. Packed six per box.

Regular Markings	Inside Markings	Lgth. Ft.	Wt. Lbs. Per Box	Each
X46	X46F	6	2 1/4	\$2.17
X48	.....	8	3	3.00
HX46*	.....	6	2 1/4	2.30

*With hook.

"TWO WAY" RULE — RED END



Reads right to left, one side; left to right, other side. Inside markings, flat reading. Markings embedded into wood, solid brass joints, strike plates, end caps. White finish. Consecutive inches to 16ths inch. 16" centers marked in red. Blade and markings protected by epoxy finish. Packed six per box.

Cat. No.	Lgth. Ft.	Wt. Lbs. Per Box	Each
966	6	1 3/4	\$1.50

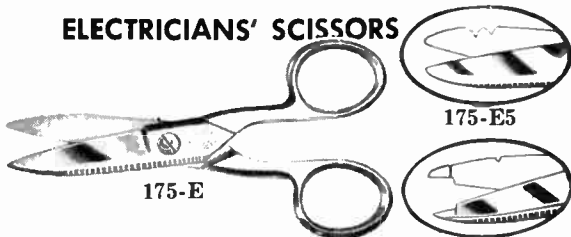
**WISS
THREAD CLIPS**



Hot drop-forged of fine cutlery steel. For clipping threads, strings or ripping seams. Self opening spring provides fast clean cutting.

No.	Finish	O/A	Cut	Pack	Each
TC-1	Nickel Plate	4 3/8"	1"	6 pr. to box	\$3.50

ELECTRICIANS' SCISSORS



175-E



175-E5



175-E6

For telephone and electronics repair men designed for cutting light wire, wire filaments and insulation. File on back blade for cleaning and scraping wire.

175-E	Nickel Plated	5"	1 3/8"	6 pr. to box	3.50
175-E1	As 175-E in commercial finish	5"	1 3/8"	6 pr. to box	3.10
175-E3	As 175-E with one serrated blade	5"	1 3/8"	6 pr. to box	3.20
175-E4	As 175-E with both blades serrated	5"	1 3/8"	6 pr. to box	3.20
175-E5	Commercial finish for .035 and .022 wire	5"	1 3/8"	6 pr. to box	3.10
175-E6	Commercial finish notch for .035 wire stripping pad at point for .010-.035 wire	5"	1 1/2"	6 pr. to box	3.30

METALMASTER® SNIPS



M-1

Compound Action cuts up to 18 gauge sheet metal. Cut circles, straight or intricate patterns.

No.	O/A	Cut	Type of Cut	Pack	Each
M-1	9 3/4"	1 3/8"	Left	30 prs.	4.60
M-2	9 3/4"	1 3/8"	Right	30 prs.	4.60
M-3	9 3/4"	1 1/2"	Straight	30 prs.	4.60

**INLAID® BLADES
STRAIGHT TRIMMERS**



Industrial Shears with Black handles.

No.	O/A	Cut	Pack	Each
38	8"	3 3/8"	6 prs.	6.00

ANVIL BLADE SHEARS



For wood and light metal trimming. Cuts 3/4" welding cable, copper cable.

No.	O/A	Cut	Pack	Each
908	8"	1 1/2"	6 prs.	3.95

PRECISION TWIST DRILL

GENERAL PURPOSE DRILLS



PDT Twist Drills and Cutting Tools are manufactured under the most exacting standards of quality, accuracy and finish.

FRACTIONAL SIZES NO. R10

Diameter Inches	Each	Length Overall Inches
1/64	\$0.49	3/4
1/32	.35	1 3/8
3/64	.28	1 3/4
1/16	.26	1 7/8
5/64	.26	2
3/32	.27	2 1/4
7/64	.30	2 5/8
1/8	.37	2 3/4
9/64	.37	2 7/8
5/32	.42	3 1/8
11/64	.46	3 1/4
3/16	.53	3 1/2
13/64	.61	3 5/8
7/32	.67	3 3/4
15/64	.74	3 7/8
1/4	.79	4
17/64	.98	4 1/8
9/32	1.05	4 1/8
19/64	1.20	4 3/8
5/16	1.30	4 1/2
21/64	1.40	4 5/8
11/32	1.60	4 3/4
23/64	1.95	4 7/8
3/8	1.90	5
25/64	2.20	5 1/8
13/32	2.20	5 1/4
27/64	2.50	5 3/8
7/16	2.65	5 1/2
29/64	3.10	5 5/8
15/32	3.25	5 3/4
31/64	3.45	5 7/8
1/2	3.30	6

**WIRE GAUGE
SIZES NO. R18**

Wire Gauge No.	Each	Length Overall Inches
1	\$.83	3 7/8
2	.83	3 7/8
3	.78	3 3/4
4	.80	3 3/4
5	.80	3 3/4
6	.80	3 3/4
7	.61	3 5/8
8	.63	3 5/8
9	.69	3 5/8
10	.63	3 5/8
11	.65	3 1/2
12	.67	3 1/2
13	.58	3 1/2
14	.61	3 3/8
15	.61	3 3/8
16	.57	3 3/8
17	.54	3 3/8
18	.48	3 1/4
19	.47	3 1/4
20	.48	3 1/4
21	.46	3 1/4
22	.46	3 1/8
23	.44	3 1/8
24	.45	3 1/8
25	.41	3
26	.42	3
27	.39	3
28	.37	2 7/8
29	.37	2 7/8
30	.37	2 3/4
31	.34	2 3/4
32	.35	2 3/4
33	.32	2 5/8
34	.32	2 5/8
35	.32	2 5/8
36	.30	2 1/2
37	.32	2 1/2
38	.30	2 1/2
39	.29	2 3/8
40	.29	2 3/8
41	.28	2 1/8
42	.27	2 1/4
43	.27	2 1/4
44	.27	2 1/8
45	.27	2 1/8
46	.27	2 1/8
47	.27	2
48	.27	2
49	.27	2
50	.27	2
51	.27	2
52	.27	1 7/8
53	.27	1 7/8
54	.28	1 7/8
55	.28	1 7/8
56	.28	1 3/4
57	.34	1 3/4
58	.36	1 5/8
59	.37	1 5/8
60	.34	1 5/8

LETTER SIZES NO. R15

Size	Each	Length Overall Inches
A	\$0.90	3 7/8
B	.90	4
C	.79	4
D	.83	4
E	.93	4
F	.95	4 1/8
G	1.05	4 1/8
H	1.25	4 1/8
I	1.05	4 1/8
J	1.25	4 1/8
K	1.40	4 1/4
L	1.45	4 1/4
M	1.60	4 3/8
N	1.45	4 3/8
O	1.40	4 1/2
P	1.70	4 5/8
Q	1.70	4 3/4
R	1.60	4 3/4
S	2.20	4 7/8
T	2.40	4 7/8
U	2.05	5
V	2.40	5
W	2.30	5 1/8
X	3.25	5 1/8
Y	3.60	5 1/4
Z	3.75	5 1/4

A to N in pkg. of 12 O to Z in pkg. of 6 All in pkg. of 12

IRWIN BITS

No. 415T SINGLE TWIST POLE BITS



Special bit steel, heat treated full length. Special cutting head with single spur and side lip. Rust resistant black oxide finish with edges polished.

Designed to bore through creosoted telephone and power poles without clogging or binding. Also for use in heavy construction at mines, docks and bridges.

Adapter Shank permits use in bit braces or electric drills. Length of twist 12", length overall 18".

Size In.	Wt. Lbs. Box	Each	Size In.	Wt. Lbs. Box	Each
6/16	1 $\frac{5}{8}$	\$2.07	12/16	4 $\frac{3}{8}$	\$2.47
7/16	2	2.07	13/16	5	2.60
8/16	2 $\frac{3}{8}$	2.14	14/16	6 $\frac{1}{8}$	2.80
9/16	2 $\frac{3}{4}$	2.20	15/16	7 $\frac{3}{8}$	3.01
10/16	3 $\frac{1}{4}$	2.27	16/16	8	3.15
11/16	3 $\frac{3}{8}$	2.34	17/16	4 $\frac{1}{2}$	3.36

16/16" and smaller, 6 in a box; 17/16", 3.

No. 88 SPEEDBOR DRILL BITS



Forged from one piece of tool steel, heat treated full length, fully polished. Hollow ground point bores faster, cleaner holes. Precision ground shank, will not wobble; six flats on shank.

Size marked on head; Hang-A-Bit hole in head.

1" and smaller, 6 $\frac{1}{8}$ " long; 1 $\frac{1}{8}$ " and larger, 6 $\frac{3}{4}$ " long. All sizes packaged in Sellopak display jacket.

Size In.	Wt. Lbs. Box	Each	Size In.	Wt. Lbs. Box	Each
1/4	3/8	\$0.54	1 1/8	5/8	\$0.60
5/16	3/8	.54	7/8	5/8	.60
3/8	1/2	.54	1 1/8	5/8	.60
7/16	1/2	.54	1	5/8	.60
1/2	5/8	.54	1 1/8	1 1/8	.94
5/8	5/8	.54	1 1/4	1 1/8	.94
3/4	5/8	.60	1 3/8	1 1/8	.94
7/8	5/8	.60	1 1/2	1 1/8	.94
1	5/8	.60			

1" and smaller, 6 in a box; 1 $\frac{1}{8}$ and larger, 3.

MICRO-DIAL EXPANSIVE AUGER BITS



Exclusive micrometer dial size adjustment. Drop forged in one piece from special analysis steel; heat treated full length. Medium slow screw pitch. Easy-reading dial markings; positive blade lock. Highly polished finish, red tang. In individual display boxes with hang-up tab.

No. 21 — Small size with two cutters, one cutting 5/8" to 1", the other 1" to 1 $\frac{1}{4}$ ". Wt. each 3/8 lb. each \$2.67

No. 22 — Large size with two cutters, one cutting 7/8" to 1 $\frac{1}{2}$ ", the other 1 $\frac{1}{2}$ " to 3". Wt. each 1/2 lb. each \$2.94

One in a box.

IMPACT WRENCH WOOD BITS



Hex drive type for quick change chucks. Single spur, single twist. Forged from solid bars of special tool steel—no welds. Heat treated full length. Bores clean through. No clogging, no binding, no stopping to clear chips.

No. 41H18			No. 41H24		
Size In.	O. A. Lgth. In.	Each	Size In.	O. A. Lgth. In.	Each
7/8" Hex Shank					
9/16	18	\$4.23	9/16	24	\$4.93
11/16	18	4.45	11/16	24	5.18
13/16	18	4.69	13/16	24	5.63
15/16	18	5.15	15/16	24	6.19
17/16	18	5.80	17/16	24	7.07
5/8" Hex Shank					
9/16	18	\$4.34	9/16	24	\$5.63
11/16	18	4.48	11/16	24	5.85
13/16	18	4.69	13/16	24	6.19
15/16	18	5.32	15/16	24	6.69
17/16	18	5.81	17/16	24	7.36

16/16" and smaller, 6 in a box; 17/16", 3.

LOCKHEAD



Quick size adjustment. Drop forged in one piece from special analysis steel, heat treated full length. Medium slow screw pitch. Wedge type blade lock is positive in action. Highly polished finish, red tang. In individual display boxes with hang-up tab.

No. 1 — Small size with two cutters, one cutting 5/8" to 1", the other cutting 1" to 1 $\frac{1}{2}$ ". Wt. each 3/8 lb. each \$2.34

No. 2 — Large size with two cutters, one cutting 7/8" to 1 $\frac{1}{2}$ ", the other cutting 1 $\frac{1}{2}$ " to 3". Wt. each 1/2 lb. each \$2.67

One in a box.



Extra Cutters

Cat. No.	For Bit No.	Cut In.	Each
1S	1	5/8-1	\$0.41
2S	1	1-1 1/2	.50
3L	2	7/8-1 1/2	.64
4L	2	1 1/2-3	.76

ELECTRIC DRILL BIT EXTENSIONS




Adds 12" to bit lengths. For use with Irwin Speedbor "88" electric drill bits and all other power bits having 1/4" shanks. Follows 5/8" and larger bits through hole. Three flats on shank. Special tool steel. Heat treated shank precision ground to run true. Rust resistant black oxide finish. Mounted on hang-up card. Wt. 1/2 lb.

No. E88 Extensioneach \$1.00

Six in a box.


GREENLEE TIMESAIVING BITS

NO. 16 UNISPUR ELECTRICIANS' AUGER BITS




Size	Each	Size	Each	Size	Each
5/8"	\$2.45	1 1/8"	\$3.10	1"	\$3.65
1 1/8"	2.55	7/8"	3.30	1 1/2"	4.75
3/4"	2.65	1 1/8"	3.50	1 3/4"	5.40

NO. 18 UNISPUR ELECTRICIANS' POWER BITS



Size	Each	Size	Each	Size	Each
5/8"	\$2.95	1 1/8"	\$3.50	1 1/2"	\$5.45
1 1/8"	3.05	7/8"	3.70	1 3/4"	6.15
3/4"	3.15	1"	4.00		


NO. 45 SHORT UNISPUR POWER BITS



Size	Each	Size	Each	Size	Each
5/8"	\$2.90	1"	\$3.95	1 1/2"	\$ 7.60
1 1/8"	3.00	1 1/8"	5.40	1 3/4"	9.25
3/4"	3.10	1 1/4"	6.05	2"	11.00
1 1/8"	3.45	1 3/8"	6.90	2 1/2"	15.00
7/8"	3.65				

NO. 48 BELL HANGER DRILLS

12-Inch Length



Size	Each	Size	Each	Size	Each
1 1/8"	\$2.30	5/8"	\$2.40	1 1/2"	\$3.05
1/4"	2.35	3/8"	2.60	1 1/2"	3.35

18-Inch Length


1 1/8"	\$2.75	7/8"	\$3.40	5/8"	\$4.65
1/4"	2.85	1/2"	3.85	1 1/8"	5.10
1 1/8"	2.90	1/8"	4.15	3/4"	6.00
3/8"	3.10				

24-Inch Length

1 1/8"	\$3.35	5/8"	\$3.60	1 1/8"	\$4.00
1/4"	3.45	3/8"	3.75	1/2"	4.40

NO. 57 SINGLE-SPUR CAR BITS

12-Inch Twist



Size	Each	Size	Each	Size	Each
3/8"	\$3.55	5/8"	\$3.80	7/8"	\$5.20
1 1/8"	3.60	1 1/8"	4.00	1 1/8"	5.60
7/8"	3.70	3/4"	4.40	1"	5.95
1 1/8"	3.75	1 1/8"	4.60	1 1/8"	6.35

18-Inch Twist


1 1/8"	\$6.30	3/4"	\$7.50	1 1/8"	\$ 9.35
5/8"	6.45	1 1/8"	8.20	1"	10.00
1 1/8"	7.05	7/8"	8.70	1 1/8"	10.50

24-Inch Twist

1 1/8"	\$8.60	3/4"	\$10.00	1 1/8"	\$12.45
5/8"	8.80	1 1/8"	10.80	1"	13.20
1 1/8"	9.35	7/8"	11.60	1 1/8"	14.00

NO. 64 SHIP AUGER CAR BITS


12-Inch Twist



Size	Each	Size	Each	Size	Each
1/4"	\$3.10	5/8"	\$3.30	1"	\$4.45
1 1/8"	3.10	1 1/8"	3.40	1 1/8"	4.95
3/8"	3.10	3/4"	3.45	1 3/8"	5.45
7/8"	3.15	1 1/8"	3.60	1 1/4"	6.15
1/2"	3.20	7/8"	3.85	1 1/2"	8.25
1 1/8"	3.25	1 1/8"	4.30		

NO. 64-PT SHIP AUGER POWER BITS


12-Inch Twist



Size	Each	Size	Each	Size	Each
3/8"	\$3.45	5/8"	\$3.95	7/8"	\$4.90
1 1/8"	3.50	1 1/8"	4.10	1 1/8"	5.25
1/2"	3.60	3/4"	4.30	1"	5.60
1 1/8"	3.85	1 1/8"	4.45		

NO. 66-PT POWER SHIP AUGERS WITH SCREW


12-Inch Twist, 18-Inch Overall



Size	Each	Size	Each	Size	Each
1 1/8"	\$4.10	1 1/8"	\$5.45	1 3/8"	\$ 9.30
5/8"	4.20	1"	5.80	1 1/2"	9.95
1 1/8"	4.50	1 1/8"	6.70	1 3/4"	13.95
3/4"	4.60	1 1/4"	7.65	2"	18.15
1 1/8"	4.70	1 1/4"	8.40	2 1/4"	20.00
7/8"	5.15				

NO. 68-PT POWER SHIP AUGERS WITHOUT SCREW

12-Inch Twist, 18-Inch Overall




Size	Each	Size	Each	Size	Each
1 1/8"	\$4.95	7/8"	\$6.20	1 1/4"	\$10.10
5/8"	5.05	1 1/8"	6.55	1 3/8"	11.20
1 1/8"	5.40	1"	7.00	1 1/2"	11.95
3/4"	5.50	1 1/8"	8.05	1 3/4"	16.75
1 1/8"	5.65	1 1/8"	9.20	2"	21.80

NO. 159W-7 SINGLE-SPUR IMPACT WRENCH BIT

7/16" Hexagon Shank

8-Inch Twist — 12-Inch Overall Length



Size	Each	Size	Each	Size	Each
3/8"	\$5.75	1/2"	\$5.90	1 1/8"	\$6.30
1 1/8"	5.90	1 1/8"	6.10	1 1/8"	6.50

12-Inch Twist — 16-Inch Overall Length

1 1/8"	\$6.50	1 1/8"	\$7.00	1 1/8"	\$8.75
1 1/8"	6.70	1 1/8"	8.00		

18-Inch Twist — 22-Inch Overall Length

1 1/8"	\$8.95	1 1/8"	\$10.30	1 1/8"	\$13.10
1 1/8"	9.45	1 1/8"	11.85		

NO. 159W-10 SINGLE-SPUR IMPACT WRENCH BIT

5/8" Hexagon Shank

8-Inch Twist — 12-Inch Overall Length

Size	Each	Size	Each	Size	Each
3/8"	\$5.75	1/2"	\$5.90	1 1/8"	\$6.30
1 1/8"	5.90	1 1/8"	6.10	1 1/8"	6.50

12-Inch Twist — 16-Inch Overall Length

1 1/8"	\$6.50	1 1/8"	\$7.00	1 1/8"	\$8.75
1 1/8"	6.70	1 1/8"	8.00		

18-Inch Twist — 22-Inch Overall Length

1 1/8"	\$8.95	1 1/8"	\$10.30	1 1/8"	\$13.10
1 1/8"	9.45	1 1/8"	11.85		

GREENLEE TIMESAVING BITS



NO. 1440 PIPE BIT SET

Cat. No.	Description	Each
1440	Complete	\$57.00
149P	7/8" Bit for 1/2" pipe	4.80
149P	1 1/8" Bit for 3/4" pipe	5.20
149P	1 3/8" Bit for 1" pipe	5.20
149P	1 7/8" Bit for 1 1/4" pipe	8.90
149P	2" Bit for 1 1/2" pipe	10.25
149P	2 1/2" Bit for 2" pipe	17.80
1440-B	Brace Adapter	2.20
1440-C	Coupling	1.60
1440-E	Electric Drill Adapter	1.30



BIT EXTENSIONS — For Power Drills

Cat. No.	Description	Each
902	Power Bit Extension to follow 1 1/8" bit and larger Shank size: 3/8" Overall length: 18" \$2.45 24" 2.60	
904	Power Bit Extension to follow 1 3/8" bit and larger Shank size: 1/2" Overall length: 18" 3.30 24" 3.60	



BIT EXTENSIONS — For Brace Shank Bits

Cat. No.	Description	Each
900	Bit Extensions to follow 5/8" bit and larger 18" length \$5.50 24" length 6.00	
925	Bit Extensions to follow 1 1/8" bit and larger 18" length 7.50 24" length 8.20	

TILDEN ROTARY KONKRETE KORE DRILLS

Tungsten carbide cutters set in the perimeter of the drill penetrate concrete and other masonry materials as fast as 6 inches per minute with a one inch bit. Patented core slot from 1/2-inch up. Spiral fluting clears the hole.

Drills reinforcing bars. Up to 300 inches without resharpening. Used in ordinary drill motors. Interchangeable shanks, 1/8" up for any depth holes.

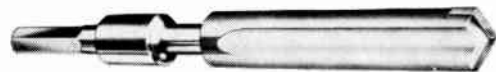
Rotary Konkrete Kore

Cat. No.	Drill Size In.	Lgth. Over-all In.	Each	Cat. No.	Drill Size In.	Lgth. Over-all In.	Each
KK-8	1/2	6	\$6.15	KK-36	2 1/4	15	\$30.23
KK-9	5/8	6	7.01	KK-40	2 1/2	15	35.62
KK-10	3/4	8	7.80	KK-44	2 3/4	15	37.50
KK-11	7/8	8	8.63	KK-48	3	15	45.68
KK-12	1	8	9.38	KK-52	3 1/4	18	51.26
KK-13	1 1/8	8	11.33	KK-56	3 1/2	18	58.76
KK-14	1 1/4	10	13.24	KK-60	3 3/4	18	62.21
KK-16	1	10	14.06	KK-64	4	18	66.94
KK-18	1 1/8	12	16.01	KK-68	4 1/4	24	71.01
KK-20	1 1/4	12	17.78	KK-72	4 1/2	24	76.58
KK-22	1 3/8	12	19.61	KK-76	4 3/4	24	87.38
KK-24	1 1/2	12	21.45	KK-80	5	24	91.35
KK-26	1 5/8	12	23.33	KK-84	5 1/4	24	95.63
KK-28	1 3/4	12	25.88	KK-88	5 1/2	24	99.23
KK-30	1 7/8	12	26.78	KK-92	5 3/4	24	104.70
KK-32	2	12	28.35	KK-96	6	24	109.46

Auger Point

AP-532	3/8	3	\$1.61	AP-9	1 1/8	8	\$3.15
AP-2	1/2	3	1.61	AP-10	5/8	8	3.34
AP-3	3/4	4	1.61	AP-11	1 1/8	8 1/2	3.79
AP-732	1 1/2	5	1.61	AP-12	3/4	8 1/2	4.09
AP-4	1/4	5	1.61	AP-14	7/8	10	5.10
AP-932	3/2	5	1.61	AP-16	1	10	6.38
AP-5	5/8	5	1.73	AP-18	1 1/4	12	10.46
AP-6	3/4	5	2.03	AP-20	1 1/4	12	11.74
AP-7	7/8	5	2.10	AP-22	1 3/4	12	12.38
AP-8	1/2	6	2.40	AP-24	1 1/2	12	14.02

TILDEN ONE PIECE DRILLS



For 717 Black & Decker

B & D Cat. No.	Tilden Cat. No.	Drill Size In.	Drill Lgth. In.	Usable Drilling Depth In.	Each
52196	BDU7	1/16	10 1/2	4 1/8	\$12.79
51739	BDU8	1/8	10 3/4	4 1/8	12.79
51741	BDU8L	1/2	15 3/4	9 5/8	15.83
	BDU8XL	1/2	21 3/4	15 5/8	19.50
51742	BDU9	9/16	11 3/4	5 5/8	13.50
51743	BDU10	5/8	10 3/8	4	13.80
51744	BDU10L	5/8	15 5/8	9 1/2	17.33
51745	BDU10XL	5/8	21 5/8	15 1/2	21.08
51746	BDU11	1 1/8	11 3/8	5 1/2	15.34
51747	BDU12	3/4	12	4	15.34
51748	BDU12L	3/4	15 5/8	9 1/2	19.76
51749	BDU12XL	3/4	21 5/8	15 1/2	23.85
51750	BDU14	7/8	11 3/8	5 1/2	17.55
51751	BDU14L	7/8	21 5/8	15 1/2	24.38
51752	BDU16	1	11 3/8	5 1/2	18.94
51753	BDU16L	1	21 5/8	15 1/2	26.44
51754	BDU18	1 1/8	11 3/8	5 1/2	21.53
51755	BDU18L	1 1/8	21 5/8	15 1/2	30.83
51756	BDU20	1 1/4	11 3/8	5 1/2	24.15
51757	BDU20L	1 1/4	21 5/8	15 1/2	32.33
53590	BDU22	1 3/8	12 3/8	6 1/2	26.55
53591	BDU22L	1 3/8	22 5/8	16 1/2	34.88
53592	BDU24	1 1/2	12 3/8	6 1/2	35.25
53593	BDU24L	1 1/2	22 5/8	16 1/2	45.38

CYCLO-TWIST



Heavy Duty Rotary Carbide Tipped Masonry Bit

Cat. No.	Bit Dia. In.	Overall Length In.	Shank Dia. In.	Std. Pkg.	Each
01010	7/8	2 1/2	7/8	12	\$2.15
01020	1 1/8	2 1/2	1 1/8	12	2.15
01030	1 1/4	2 1/2	1 1/4	12	2.15
01040	1 1/2	2 1/2	1 1/2	12	2.15
01050	1 3/4	3	1 3/4	12	2.15
*01060	1 7/8	3	1 7/8	12	2.15
01080	1 7/8	3	1 7/8	12	2.15
01090	2	4	2	12	2.15
01100	2 1/8	4	2 1/8	12	2.15
*01110	1/4	4	1/4	12	2.15
01130	1/4	4	1/4	12	2.15
01140	1/4	6	1/4	12	2.30
*01150	1/4	12	1/4	1	4.70
01160	1/4	12	1/4	1	4.70
01170	1/4	18	1/4	1	6.30
01180	1/4	24	1/4	1	7.25
01190	3/8	4	3/8	12	2.15
01200	3/8	6	3/8	12	2.30
*01210	1/2	4	1/2	12	2.30
01230	1/2	4	1/2	12	2.30
01240	1/2	6	1/2	12	2.50
*01250	1/2	12	1/2	1	5.30
01260	1/2	12	1/2	1	5.30
01270	1/2	18	1/2	1	7.15
01280	1/2	24	1/2	1	8.30
*01290	3/8	4	3/8	12	2.50
01310	3/8	4	3/8	12	2.50
01320	3/8	6	3/8	12	2.75
*01330	3/8	12	3/8	1	5.90
01340	3/8	12	3/8	1	5.90
01350	3/8	12	5/8	1	5.90
01360	3/8	18	1/4	1	7.75
01370	3/8	18	1/2	1	7.75
01380	3/8	24	1/4	1	10.00
01390	7/8	6	1/4	6	2.85
01400	7/8	6	3/8	6	2.85
01410	7/8	12	3/8	1	6.45
01420	7/8	18	3/8	1	8.40
01430	7/8	24	3/8	1	10.80
*01440	1/2	6	1/4	12	3.20
01460	1/2	6	3/8	6	3.20
*01465	1/2	6	3/8	12	3.20
*01470	1/2	12	3/8	1	7.35
01480	1/2	12	3/8	1	7.35
01490	1/2	18	3/8	1	8.70
01500	1/2	24	3/8	1	11.55
01510	7/8	6	7/8	6	4.20
01520	7/8	12	7/8	1	8.40
01530	7/8	18	7/8	1	9.45
01540	7/8	24	7/8	1	12.20
01550	5/8	6	1/2	6	4.45
*01560	5/8	12	1/2	1	9.45
01570	5/8	12	1/2	1	9.45
01580	5/8	18	1/2	1	10.55
01590	5/8	24	1/2	1	13.45
01600	1 1/8	6	1/2	6	5.05
01610	1 1/8	12	1/2	1	10.50
01620	1 1/8	18	1/2	1	11.35
01630	1 1/8	24	1/2	1	14.55
01640	3/4	6	1/2	6	5.45

Cat. No.	Bit Dia. In.	Overall Length In.	Shank Dia. In.	Std. Pkg.	Each
01650	3/4	12	1/2	1	\$10.80
01660	3/4	18	1/2	1	12.20
01670	3/4	24	1/2	1	15.65
01680	7/8	6	1/2	6	6.80
01690	7/8	12	1/2	1	13.25
01700	7/8	18	1/2	1	15.25
01710	7/8	24	1/2	1	18.55
01720	1	6	1/2	6	8.50
01730	1	12	1/2	1	14.70
01740	1	18	1/2	1	16.60
01750	1	24	1/2	1	22.35
01760	1 1/8	6	1/2	1	10.30
01770	1 1/8	12	1/2	1	18.30
01780	1 1/8	18	1/2	1	19.95
01790	1 1/8	24	1/2	1	26.15
01800	1 1/4	6	1/2	1	13.65
01820	1 1/2	7	1/2	1	19.05

*These items only available Skin Pack for peg board.
All other items Tube Pack.

CYCLO-CORE



Heavy Duty Multi-Carbide Tipped Masonry Bit

Cat. No.	Bit Dia. In.	Overall Length In.	Shank Dia. In.	Std. Pkg.	Each
10010	1/4	5	1/4	6	\$ 3.80
10020	1/4	6	1/4	6	4.15
10030	1/4	12	1/4	1	5.70
10040	3/8	6	1/4	6	4.85
10050	3/8	12	1/4	1	6.85
10060	7/8	6	3/8	6	6.10
10070	1/2	6	3/8	6	8.20
10080	1/2	12	3/8	1	10.20
10090	1/2	18	3/8	1	11.35
10100	1 1/8	6	3/8	6	9.35
10110	5/8	6	3/8	6	10.40
10130	1 1/8	6	3/8	6	11.55
10140	3/4	10	1/2	1	12.50
10150	7/8	10	1/2	1	17.65
10160	1	10	1/2	1	18.80
10170	1 1/8	10	1/2	1	21.40
10180	1 1/4	10	1/2	1	23.75
10190	1 3/8	10	1/2	1	26.15
10200	1 1/2	11	1/2	1	28.65
10210	1 5/8	11	3/4	1	31.10
10220	1 3/4	11	3/4	1	34.55
10230	1 7/8	12	3/4	1	35.70
10240	2	12	3/4	1	37.80
10250	2 1/4	15	3/4	1	40.30
10260	2 3/8	15	3/4	1	44.30
10270	2 1/2	15	3/4	1	46.75
10280	2 3/4	15	3/4	1	50.00
10290	2 7/8	15	3/4	1	55.00
10300	3	15	1	1	60.90
10310	3 1/4	18	1	1	68.35
10320	3 1/2	18	1	1	78.35
10330	3 3/4	18	1	1	82.95
10340	4	18	1	1	89.25
10350	4 1/4	18	1	1	94.75
10360	4 1/2	18	1	1	102.10
10370	5	24	1	1	121.80
10380	6	24	1	1	145.95

Quantity Discounts upon Application

MASONRY DRILLS

(CARBIDE TIPPED)



Uses: With electric drills for all types of masonry.

Catalog No.		Dia. Inches	Wt. Each	Each
Diamond	Rawl			
7702	8500	1/8	1/4 oz.	\$1.35
7702-A	8502	3/16	1/4 oz.	1.35
7702-B	8504	1/4	1/4 oz.	1.35
7703	8506	5/16	1/2 oz.	1.35
7704	8508	3/8	1 oz.	1.35
7704-A	8510	7/16	1 oz.	1.35
7705	8512	1/2	1 1/4 oz.	1.46
7706	8514	5/8	1 1/2 oz.	1.60
7707	8516	3/4	2 oz.	1.80
7708-A	8522	1/2*	2 1/2 oz.	2.02
7708-B	8520	1/2**	4 1/4 oz.	2.02
7709	8524	5/8	5 1/4 oz.	2.67
7710	8526	3/4	7 oz.	2.83
7711	8528	7/8	7 3/4 oz.	3.20
7712	8530	1	9 oz.	3.47
7714	8532	3/4	11 1/2 oz.	4.33
7716	8534	1	13 3/4 oz.	5.40
7718	8536	1 1/8	1 1/2 lbs.	6.52
7720	8538	1 1/4	2 1/2 lbs.	8.67
.....	8540	1 3/8	3 lbs.	10.97
7724	8542	1 1/2	3 5/8 lbs.	12.10

*4" length — 1/4" shank diameter.
**6" length — 3/8" shank diameter.

EXTRA LENGTH CARBIDE DRILLS

Cat. No.	Nom. Dia. & Lgth., In.	Shank Dia., In.	Wt. Lbs. Per Doz.	Each
8650	3/8 x 8	3/8	1/4	\$3.53
8652	1/4 x 6	1/4	1/4	1.46
8653	1/4 x 12	1/4	1 1/4	2.99
8654	1/4 x 18	1/4	3	4.00
8656	5/16 x 6	1/4	1 3/4	1.60
8657	5/16 x 12	1/4	1 3/4	3.37
8658	5/16 x 18	1/4	3	4.55
8660	3/8 x 6	1/4	1 1/2	1.60
8661	3/8 x 12	1/4	2 1/4	3.74
8662	3/8 x 18	1/4	3	4.91
8664	7/16 x 12	3/8	3	4.11
8665	7/16 x 18	3/8	4 3/4	5.33
8666	1/2 x 12	3/8	3	4.67
8667	1/2 x 18	3/8	4 3/4	5.52
8668	5/8 x 12	7/16	3 1/4	5.33
8669	5/8 x 18	7/16	5	6.00
8670	5/8 x 12	1/2	3 1/2	6.00
8671	5/8 x 18	1/2	5	6.71
8673	3/4 x 12	1/2	5 1/4	6.87
8674	3/4 x 18	1/2	6	7.75
8676	7/8 x 12	1/2	5 1/4	8.40
8677	7/8 x 18	1/2	7 1/2	9.67
8679	1 x 12	1/2	6	9.33
8680	1 x 18	1/2	7 1/2	10.53
8682	1 1/8 x 12	1/2	9	11.60
8683	1 1/8 x 18	1/2	20	12.67
8684	1 1/4 x 18	1/2	24	15.80
8685	1 3/8 x 18	1/2	30	44.67
8686	1 1/2 x 18	1/2	36	22.27

Packed 1 to a box.

SPIRAL CARBIDE DRILL KITS

Catalog No.		Drills in Kit	Per Kit
Diamond	Rawl		
7700-P			
Kit No.			
1	8593	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	\$12.73
2	8592	3/8", 1/2", 5/8", 3/4", 1/2", 5/8"	10.62
3	8591	1/2", 5/8", 3/4", 1/2"	6.43
4	.....	3/8", 1/4", 3/8", 1/2"	6.33

Each kit complete with tool kit roll.

(PERCUSSION)

RAWL M/T DIAMOND FS



Straight Flute

Catalog No.		Size	No. In Box	Wt. Box Lbs.	Each
Rawl	Diamond				
8106	740-6	#6 (5/16")	12	1/4	\$0.84
8108	740-8	#8 (3/8")	12	1/4	.84
8110	740-10	#10 (7/16")	12	1/4	.84
8112	740-12	#12 (1/2")	12	1/2	.84
8114	740-14	#14 (5/8")	12	1/2	.92
8116	740-16	#16 (3/4")	12	3/4	.99
8120	740-20	#20 (7/8")	12	1/2	1.15
8124	.....	(7/16")	12	1	2.07

DIAMOND FS RAWL R/T



Twist Flute

Catalog No.		Size	No. In Box	Wt. Box Lbs.	Each
Diamond	Rawl				
760-6	8156	6"	12	1/4	\$0.87
760-8	8158	8"	12	1/2	.87
760-10	8160	10"	12	1/2	.87
760-12	8162	12"	12	3/4	.87
760-14	8164	14"	12	1/2	.95
760-16	8166	5 1/8"	12	1	1.03
760-20	8170	3 3/8"	12	1 1/4	1.19
.....	8174	1 5/8"	12	1 1/2	2.27
.....	8177	1 1/2"	6	1	2.49
.....	8180	5/8"	6	1 3/8	3.33
.....	8183	3/4"	6	2	4.40



Uses: For electric hammers or hand drilling.

Diamond Cat. No.	Dia. Inches	Wt. Lbs. Per Doz.	Each
720-3	1/8	1/2	\$0.91
720-3A	3/16	5/8	.91
720-4	1/4	3/4	.91
720-5	5/16	1	1.08
720-6	3/8	1 1/4	1.25
720-7	7/16	1 1/2	1.59
720-8	1/2	2	1.92
720-9	5/8	2 1/2	2.26
720-10	3/4	2 3/4	2.43
720-12	7/8	3 1/2	2.93

DIAMOND DRILL HOLDERS



Uses: Hand holders for Di-Forge Percussion drills.

Cat. No.	Wt. Lbs. Each	Each	Cat. No.	Wt. Lbs. Each	Each
750	1	\$1.60	755	1 1/8	\$3.20
751 FS	1	1.40	756 FS	1 1/8	3.20

Style "B" Plain Style "C" with Rubber (Vinyl) Grip

RAWLDRILL HOLDERS



Cat. No.	Description	Each
8701	Holder, 14 Taper	\$1.40
8702	Holder, 20 Taper	1.75
8705	Drill Holder Ejector Pin	.41
8703	Grip, 14 Taper	1.80
8704	Grip, 20 Taper	1.80

Rawl Grips are made of live, hard rubber and are easily applied to No. 14 and No. 20 Rawl drill Holders. They give safe, comfortable and firm cushion grip.

BLACK & DECKER

3/8" HEAVY-DUTY HOLGUN® DRILL

Cat. No. 643 — \$67.00

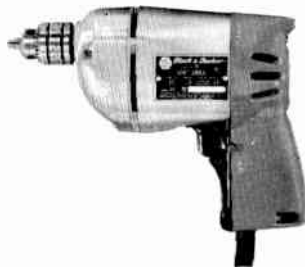
Our highest quality 3/8" Pistol Grip Drill. Heavy-duty construction throughout—a continuous-duty drill. Extra-long brush life. Special alloy heat-treated gears. Precision geared chuck.

Bearings: 5 ball, 1 needle. Capacity: steel 3/8", hardwood 3/4". Speed: no-load 1000 R.P.M. Length: 8 5/8" Weight: net 3 3/4 lbs., ship. 5 1/4 lbs. 600 R.P.M. Special no-load speed

1/4" DRILL

Cat. No. 711 — \$13.00

Our most economical 1/4" Drill. For light industry, and farm repair jobs. Bearings: 1 Ball-Thrust, 4 lubricant-impregnated. Capacity: steel 1/4", hardwood 1/2", hole saws 1 1/8". Speed: no load 2250 R.P.M. Length: 7 7/8". Net wt. 3 lbs., ship. wt. 3 3/4 lbs. 115V AC only.



1/4" ALL-INSULATED DRILL

Cat. No. 880 — \$36.00



All parts that you touch are completely insulated. Housing is made of fiberglass reinforced polyester. No grounding needed. Bearings: 1 roller, 1 roller-thrust, 2 needle, 1 ball-thrust. Capacity: steel 1/4", hardwood 1/2". Speed: 2250 R.P.M. Length: 8 1/2". Net Wt. 3 3/8 lbs.

lbs., Ship. Wt. 4 lbs. Voltages: ("universal motor"): 115V or 220V AC only.

1/4" HEAVY-DUTY HOLGUN® DRILL

Cat. No. 457 (1700 R.P.M.) — \$57.00

Cat. No. 460 (600 R.P.M.) — \$65.00

Our highest quality 1/4" Pistol Grip Drill. Heavy-duty construction throughout—a continuous-duty drill. Extra-long brush life. Special alloy heat-treated gears. Precision chuck. Bearings: 5 ball, 1 needle.

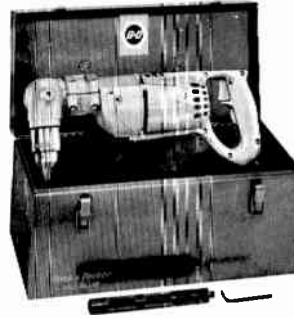


Catalog No.	457	\$57.00	460	\$65.00
Capacity: Steel	up to 1/4"		up to 1/4"	
Hardwood	up to 1/2"		up to 1/2"	
Speed: No-load	1700 R.P.M.		600 R.P.M.	
Weight: Net	3 1/4 lbs.		3 1/2 lbs.	
Ship	5 lbs.		5 lbs.	
Length:	7 3/4"		8 3/4"	

- Cat. No. 457-2 Standard Unit—2500 R.P.M. ---\$62.00
- Cat. No. 457-3 Standard Unit—3500 R.P.M. ---\$62.00
- Cat. No. 457-5 Standard Unit—5000 R.P.M. ---\$62.00
- Cat. No. 460-1 Low Speed Unit—1000 R.P.M. ---\$65.00

1/2" H.D. RIGHT ANGLE DRILL KIT

Cat. No. 756 — \$99.00



Drills in places inaccessible to straight-line drills. Head swivels 360°—locks in any position. Converts to a 1/2" End Handle Drill. Bearings: (in head) 2 ball, 2 needle; (in Drill) 3 ball, 5 needle.

Capacity: steel 1/2", hardwood 1 1/8", masonry 3/4". Speed: (High R.P.M. end) no-load 675 R.P.M., (Low R.P.M. end) 300 R.P.M. Drill Speed: (w/o Rt. Angle Head) 450 R.P.M. Length: 14 3/8". Weight: with steel Kit Box): net 19 lbs., ship. 20 3/8 lbs. Drill net wt. 11 lbs.

1/2" H.D. REVERSIBLE R.A. DRILL KIT same features as above unit with reversing switch. Cat. No. 756R—\$109.00

1/2" SUPER-DUTY DRILL

Cat. No. 575 — \$125.00

Capacity: steel 1/2" with chuck, 3/4" with #2 M.T.S.; hardwood 1 1/2" with chuck. Speed: no-load 450 R.P.M. Bearings: 6 ball, 2 needle. Weight: net 15 3/4 lbs.; shipping 20 lbs. Length: 16 1/2". Height: 13 3/8". Optional: No. 2 M.T.S. instead of chuck. Special Speeds: 375, 650, 900, 1200 and 3000 R.P.M. 1"-8 thread spindle model also available with 450 R.P.M.

3/8" HEAVY-DUTY 2-SPEED DRILL

Cat. No. 795 — \$52.00

Two tools in one.

2-Speed Shift gives you correct drilling power or torque at both high and low speeds. Increase torque 2 1/2 times just by shifting gears. Bearings: 1 ball, 3 needle, 2 roller. Capacity: steel 3/8", wood 3/4". Speeds: High 2500 R.P.M. no-load, Low 1000 R.P.M. no-load. Length: 9 1/2" Weight: Net 4 3/4 lbs., Ship. 5 1/4 lbs.



ALL-INSULATED END HANDLE DRILLS

- Cat. No. 881—1/4"—\$72.00
- Cat. No. 882—5/16"—\$74.00
- Cat. No. 883—3/8"—\$76.00
- Cat. No. 884—1/2"—\$79.00
- Cat. No. 884R—1/2" REV.—\$90.00

All-Insulated . . . special armature construction provides two independent insulating barriers between electrical windings and the spindle. Units are double insulated against internal and external electrical hazards. No straight line access through air slots to live parts. Fiberglass reinforced polyester housing will withstand same heavy-duty use as metal housing. End Handle design permits direct straight line pressure to bit. Newly designed cooling system. Quality ball and needle bearing construction throughout. Long life heavy-duty gearing. Warm to handle in cold. Cool to operate continuously.



Cat. No.	Capacity		No-Load RPM	Length	Net Weight	Shipping Weight
	Steel	Hardwood				
881	1/4"	1/2"	2000	12 3/8"	6 1/2 lbs.	7 1/2 lbs.

BLACK & DECKER

1/2" DRILL

Cat. No. 815 — \$29.00



Compact, powerful and lightweight. Convenient side handle permits better control while drilling. Precision geared chuck. Dust shield on chuck end and commutator end. Will handle 1/2" twist bits in mild steel, 3/4" self-feed augers in wood and up to 1" power bore bits. Perfect for maintenance and repair work. Rated for intermittent use.

Bearings: 7 sleeve, 1 needle spindle, 1 ball thrust. Switch: single pole trigger.

Speed: no-load 550 R.P.M. Length: 9". Net Weight: 3 3/4 lbs. Shipping Weight: 4 lbs.



REVERSIBLE 1/2" SPECIAL DRILL

Cat. No. 687 \$60.00
Same as No. 679 except reversible.

1/2" SPECIAL DRILL

Cat. No. 679 — \$52.00

Lightweight, compact, high output. Well balanced for perfect control. Removable spade handle for easy commutator inspection. Precision geared chuck.

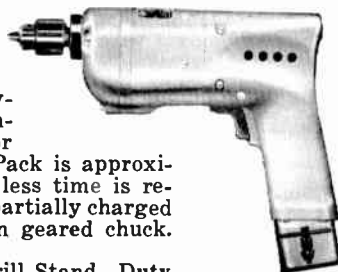
Bearings: 6 lubricant-impregnated. Capacity: steel 1/2", hardwood 1", masonry 3/4". Speed: no-load 600 R.P.M. Length: 14" (w/o handle 10 3/4"). Weight: net 7 1/2 lbs., ship. 10 lbs.

1/4" IND. CORDLESS HOLGUN® DRILL (6 V)

Cat. No. 906 — \$120.00

Completely cordless. No belt pack or heavy external battery to carry.

Versatile, use anywhere. Safe. Quiet running. Charging time for an uncharged Power Pack is approximately 10 to 12 hrs.; less time is required for an already partially charged Power Pack. Precision geared chuck.



Fit B&D No. 22148 Drill Stand. Duty Rating: continuous heavy-duty use.

Bearings: 3 ball, 3 needle. Switch: H.D. trigger. Std. Equip.: Cat. No. 51800 6-volt Industrial Power Pack; geared chuck and key; chuck key clip.

Drilling Capacity				No-load RPM	Lgth. ins.	Net Wt. lbs.	Ship. Wt. lbs.
Steel	Fir Wood	Alum.	Masonry				
1/4"	3/4" P.B.	1/4"	1/4"	800	10 1/2	5 3/4	7 1/4

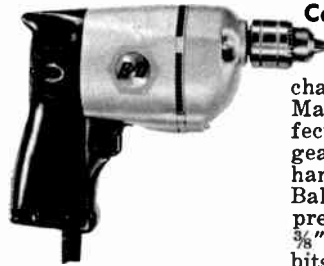
Voltage Available (DC permanent Magnet Field Motor): 6V DC.

Cat. No. 946 1/4" Industrial Cordless Holgun® Drill, only-----\$70.00

Cat. No. 906NP 6 volt one pack Industrial Power Pack Charger-----\$40.00

3/8" SPECIAL DRILL

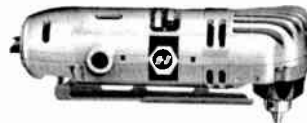
Cat. No. 854 — \$24.00



Powered and geared especially for Mechanics, Installation Men, Maintenance Crews, etc. Perfect with hole saws. Quality geared chuck. Comfortable handle. Bearings: 1 needle, 1 Ball-Thrust, 5 lubricant impregnated. Capacity: steel 3/8", hardwood 3/4", masonry bits 1/2", hole saws 5/8" to 1 1/2". Speed: no-load 1000 R.P.M. Length: 8 1/16". Weight: net 3 1/2 lbs., ship. 3 3/4 lbs.

1/4" H.D. SHORTY® DRILL

Cat. No. 668 — \$60.00



Smallest, most compact drill on the market. Unique offset head permits close drilling on flush work. Paddle switch. Cool operation

twin fans. Lightweight, powerful. Bearings: 3 ball, 1 needle.

Capacity: in steel—1/4"; in hardwood—1/2". Weight: Net—3 1/4 lbs.; Shipping—4 1/4 lbs. Speed: No-load—2000 R.P.M. Length: 8 3/8"; Width (spindle end): 3 1/16".

1/4" HEAVY-DUTY END HANDLE DRILL

Cat. No. 702 (geared chuck) — \$65.00

Cat. No. 703 (keyless chuck) — \$77.00

Heavy-duty construction throughout — a continuous-duty drill. Extra-long brush life. Powered for toughest drilling jobs. Handle design permits maximum pressure behind drill bit. Cool running.



Bearings: 3 ball, 3 needle. Speed: no-load 2000 R.P.M. Length: 12 1/2". Weight: net 6 3/4 lbs., ship. (No. 702) 7 1/4 lbs., (No. 703) 7 3/4 lbs.

1400 R.P.M. Special no-load speed, geared chuck...Cat. No. 702-14—\$71.00
900 R.P.M. Special no-load speed, geared chuck...Cat. No. 702-9—\$71.00
1400 R.P.M. Special no-load speed, keyless chuck...Cat. No. 703-14—\$85.00

3/8" DRILL

Cat. No. 813 — \$18.00

This Drill has the same quality features as its companion Drill, the 854, with the exception of bearings. The 813 carries 1 Ball-Thrust and 6 Lubricant Impregnated Bearings.

3/8" STD. HOLGUN® DRILL

Cat. No. 653 — \$45.00



Ideal for the man who does occasional heavy-duty drilling, but does not need a continuous-production unit. Perfect for maintenance and installation work, etc.

Bearings: 1 ball, 3 needle, 2 caged roller. Capacity: Steel—up to 3/8"; Hardwood—5/8". Speed (no-load): 1100 R.P.M. Length: 8 1/2". Weight: Net—3 3/8 lbs., Shipping—4 1/4 lbs.

BLACK & DECKER

TWISTON* HOLE SAWS

NOW BLACK & DECKER HIGH SPEED STEEL TWISTON* QUALITY HOLE SAWS SAVE 30-45% AFTER YOUR INITIAL PURCHASE... FOR AIR CONDITIONING, ELECTRICAL HEATING AND PLUMBING CONTRACTORS, METAL FABRICATORS, INDUSTRIAL PLANTS and OTHER HOLE SAW USERS. You don't buy a new hole saw every time the blade needs changing! Black & Decker's exclusive Driver Plate is designed so that only the blade has to be replaced.



TWISTON* HOLE SAW

Diam. In.	Cat. No.	Driver Plate		Mandrel	Pilot Drill	Elec. Drill Size Recommended	Pipe Tap Pipe Size	Pipe Ent. Pipe Size
		Cat. No.	Cat. No.					
ONE PIECE HOLE SAWS								
5/8"	56650*	\$4.15	Driver Plate & Saw are of 1 Piece	1/4" Hex drive 56551 or 3/8" Hex drive 56552	1/4"	1/4" with 56551 Mandrel	3/8"	1/4"
3/4"	56651*	2.95						
1 1/8"	56652*	2.95						
1 1/4"	56653*	2.95						
1 3/8"	56654*	2.95						
TWISTON* RING BLADES								
7/8"	56655	2.10	56707	1.70	1/2"	1/2" with 56552 Mandrel	1/2"	1/2"
1 1/8"	56656	2.10	56708	1.70				
1"	56657	2.10	56709	2.15				
1 1/8"	56658	2.10	56710	2.15				
1 3/8"	56659	2.10	56711	2.15				
1 1/2"	56660	2.10	56712	2.15	1"	1"	1"	1"
1 3/4"	56661	2.10	56713	2.15				
1 7/8"	56662	2.10	56714	2.15				
1 5/8"	56663	2.40	56715	2.60				
1 3/4"	56664	2.40	56716	2.60				
1 7/8"	56665	2.40	56717	2.60	1 1/4"	1 1/4"	1 1/4"	1 1/4"
1 3/4"	56666	2.40	56718	2.60				
1 7/8"	56667	2.40	56719	2.60				
1 5/8"	56668	2.40	56720	2.60				
1 3/4"	56669	2.65	56721	3.00				
1 7/8"	56670	2.65	56722	3.00	1 1/2"	1 1/2"	1 1/2"	1 1/2"
1 3/4"	56671	2.65	56723	3.00				
1 7/8"	56672	2.65	56724	3.00				
2"	56673	2.65	56725	3.00				
2 1/8"	56674	2.85	56726	3.50				
2 1/4"	56675	2.85	56727	3.50	1 3/4"	1 3/4"	1 3/4"	1 3/4"
2 1/4"	56676	2.85	56728	3.50				
2 3/8"	56677	2.85	56729	3.50				
2 1/2"	56678	2.85	56730	3.50				
2 3/8"	56679	3.15	56731	3.75				
2 3/4"	56680	3.15	56732	3.75	2"	2"	2"	2"
2 3/4"	56681	3.15	56733	3.75				
2 7/8"	56682	3.15	56734	3.75				
2 3/4"	56683	3.15	56735	3.75				
3"	56684	3.30	56736	3.85				
3 1/8"	56685	3.30	56737	3.85	2 1/2"	2 1/2"	2 1/2"	2 1/2"
3 1/4"	56686	3.30	56738	3.85				
3 1/8"	56687	3.30	56739	3.85				
3 1/4"	56688	3.30	56740	3.85				
3 3/8"	56689	3.85	56741	4.50				
3 3/4"	56690	4.70	56742	5.25	3"	3"	3"	3"
3 7/8"	56691	4.95	56743	5.50				
4"	56692	5.25	56744	5.75				
4 1/8"	56693	5.80	56745	6.25				
4 1/4"	56694	7.45	56746	8.00				
4 3/8"	56695	9.10	56747	9.50	3 1/2"	3 1/2"	3 1/2"	3 1/2"
4 1/2"	56696	10.45	56748	11.00				
4 3/4"	56697	11.55	56749	12.25				
5"	56698	12.65	56750	13.50				
5 1/2"	56699	15.15	56751	16.00				
6"	56700	17.35	56752	18.75	4"	4"	4"	4"
4 1/2"								
4 3/4"								
5"								
5 1/2"								

* Trademark of the Black & Decker Mfg. Co.

HEAVY-DUTY DRYWALL SCREWDRIVER

Cat. No. 740-2 — \$95.00



Drive mounting screws to an exact pre-set depth. Prevent marred screwheads and damaged wallboard surfaces. Use with 1" and 1 1/8" Steel Studing Screws, 1 1/4" Wood Studing Screws and Acoustical Tile

Screws. Speed: no-load 2500 R.P.M. Bearings: 8 ball, 2 needle. Length: 11 1/2". Weight: net 4 lbs., ship. 5 3/4 lbs.

Cat. No. 740-1 H.D. Drywall Screwdriver with 25 ft. cord ----- \$94.00

Cat. No. 740 H.D. Drywall Screwdriver, 1700 R.P.M. \$89.00

No. 10

PISTOL-GRIP SCRUGUN® SCREWDRIVER

Cat. No. 630 — \$75.00



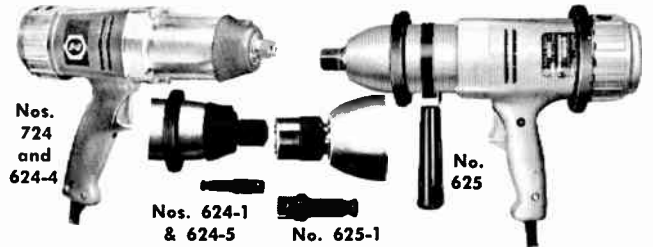
For assembly and disassembly operations that require moving in or around the work. Has same operating features as Center-Drive Scrugun® Screwdrivers but not as suitable for suspension line. Fits Micro Clutch Assembly.

Capacity: Wood Screws ----- up to No. 10 x 2" Machine Screws and Nuts ----- up to No. 12 Self-tapping Screws ----- up to No. 12

Standard Equipment: 3-wire cable and plug, No. 13207 bit with protector, centering and spring sleeves. Voltage Available: 115V or 220V AC only.

Cat. No.	Type Clutch	No-load RPM	Reversing Switch	Overall Length	Net Weight	Ship. Weight	Price
630	Positive	800	Yes	10"	3 3/4 lbs.	5 lbs.	\$75.00

ELECTRIC IMPACT WRENCHES



Longer life, fewer maintenance costs, cooler running than any Electric Impact Wrench on the market.

Nos. 624-4 and 624-5 12 Volt Impact Wrenches plug into B&D No. 54700 12 Volt Wet Cell Battery (see accessories below) so that you can use them anywhere electrical outlets are not available. Perfect for utility pole work, boat building, etc.

Nos. 724-1 and 625-1 Impact Wrenches equipped with Quick-change Chucks are perfect for installing utility pole hardware; general construction work; boat building, prefab building erection, etc. Bore deep 7/16" to 1/16" diam. holes in wood without operator torque reaction. Reversing switch permits easy, safe bit removal.

	No. 724 Wrench	No. 625 Wrench	No. 625-1 Wrench
Capacity:	1/2" bolts	3/8" bolts	—
Impacts/min.:	1800	1600	1600
Drive-square:	3/8"	3/8"	—
Length:	11 1/2"	14 1/4"	14 3/4"
Net Wt.:	7 lbs.	12 3/4 lbs.	13 1/2 lbs.
Ship. Wt.:	10 lbs.	14 1/2 lbs.	14 3/4 lbs.
Quick-change Hex. Chuck:	—	—	5/8" female
Price:	\$115.00	\$210.00	\$235.00

BLACK & DECKER

6" BENCH GRINDER Cat. No. 605 — \$45.00

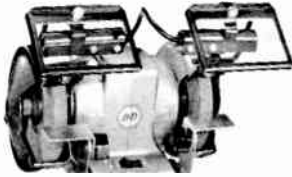


Full 1/4" H.P., ball-bearing equipped throughout. Full-width eye shield with adjusting knobs. Adjustable tool rests. Special hole on end of wheel cover provides easy access for screwdriver — makes tightening wheel simple. Has slide switch with relay.

Std. Equip.: 6" Grinding Wheel, 6" Wire Wheel Brush, 2 Wheel Guards, 2 Tool Rests, 4 Rubber Feet.

6" Bench Grinder Cat. No. 605 \$45.00	6" dia. 1/2" face 1/2" hole	*115V AC/only 50/60 cycles	50 3000 cycles	60 3600 cycles	20 lbs.
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BENCH GRINDER Cat. No. 616 — \$74.00



Equipped with ball-bearings, protected from dust; tool rests adjustable for wheel wear; strong wheel guards; wide sturdy base with rubber feet; adjustable spark shields.

Std. Equip.: No. 15314 fine grit grinding wheel; No. 15315 coarse grinding wheel, 2 tool rests, 2 spark shields, 2 15-Watt illuminated eye shields, rocker switch.

6" H.D. DeLuxe Illuminated Bench Grinder Cat. No. 616 \$74.00	6" dia. 3/4" face 1/2" hole	*115V 1/2 H.P. 50/60 cycles	60 3600 cycles	50 3000 cycles	30 lbs.
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BENCH GRINDER Cat. No. 614 — \$59.00

Std. Equip.: 6" grinding wheel; 6" wire brush, 2 wheel guards, 2 tool rests, 2 spark shields, rocker switch.

6" H.D. Bench Grinder Cat. No. 614 \$59.00	6" dia. 5/8" face 1/2" hole	*115V 1/2 H.P. 50/60 cycles	60 3600 cycles	50 3000 cycles	28 lbs.
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7" HEAVY-DUTY BENCH GRINDER

Cat. No. 786 — \$84.00



Totally enclosed split phase induction motor, 1/2 H.P. Spark Shields adjust for wheel wear. Tool rests adjust for angle and wheel wear. Has rocker switch which actuates relay giving years of trouble-free service. Ball-bearing equipped throughout, lubricated for the life of

the bearing. Warning light tells operator wheel is being overloaded . . . ideal for school use.

Std. Equip.: 2 Grinding Wheels, 2 Wheel Guards with Covers, Adjustable Tool Rests and Spark Shields, Rocker Switch.

7" H.D. DELUXE ILLUMINATED BENCH GRINDER

Cat. No. 787 — \$99.00

Std. Equip.: 2 Grinding Wheels, 2 Wheel Guards with Covers, Adjustable Tool Rests and Spark Shields, 2 15-watt Illuminated Eye Shields.

7" Bench Grinder Cat. No. 786 \$84.00	7" dia. 3/4" face 1/2" hole	*115V 1/2 H.P. 50/60 cycles	50 3000 cycles	60 3600 cycles	30 lbs.
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7" Bench Grinder Cat. No. 787 \$99.00	7" dia. 3/4" face 1/2" hole	*115V 1/2 H.P. 50/60 cycles	50 3000 cycles	60 3600 cycles	34 lbs.
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* 125V, 220V and 240V on special order.

10" HEAVY-DUTY BALL BEARING BENCH GRINDER

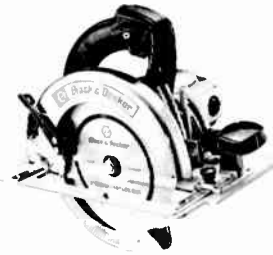
Cat. No. 83 — Single Phase — \$295.00
Cat. No. 85 — Three Phase — \$285.00

Wheel Size: 10" x 1" face x 3/4" hole; Motor Rating: 1 H.P.; Weight: net — 105 lbs.; shipping — 116 lbs.; Equipped with 2 Grinding Wheels (1 coarse, 1 medium); Push-Button Switch; Spark Shields.

Phase	Cycle	R.P.M.	Cat. No.	Available Voltages	Price
1	60	1800	83	115 or 220 Specify which one— not reconnectable.	\$295.00
	50	1500	83		
3	60	1800	85	220/440 Reconnectable for either voltage.	\$285.00
	50	1500	85		

Other voltages available on special order — please ask us.

**SUPER SAWCATS*
Portable Electric Saws**



**6 1/2" Super Sawcat,
Cat. No. 996 — \$92.00**
**6 1/2" Super Sawcat Kit,
Cat. No. 996K — \$106.00**



**7 1/4" Super Sawcat,
Cat. No. 997 — \$103.00**
**7 1/4" Super Sawcat Kit,
Cat. No. 997K — \$117.00**

**8 1/4" Super Sawcat,
Cat. No. 998 — \$114.00**
**8 1/4" Super Sawcat Kit,
Cat. No. 998K — \$128.00**

**9 1/4" Super Sawcat,
Cat. No. 999, \$136.00**
Not available as a kit. See
next page for Carrying Case
and Rip Fence.

Lightest, most powerful professional saws ever made. Built for cost-cutting superiority. Equipped with electric brake that stops instantly.

FEATURES

Greater blade visibility from motor side for more precise and accurate cutting. Balanced for perfect control at all times. Fast, easy access to every component. Baffled air inlets protect motor from wood chips, etc. Detachable wrap-around shoe supports saw and is removable for close cuts. Handle, control knobs and trigger switch insulated for safety. Simple, easy depth and angle adjustments. Built for a long life. Chrome-plated saw blades for longer, better cutting.

Cat. No.	Duty Rating	No-Load R.P.M.	Blade Diam.	Maximum Depth	
				90°	45°
996	Super	5500	6 1/2" x 5/8"	2 3/32"	1 13/16"
997	Super	5500	7 1/4" x 5/8"	2 15/32"	2 1/16"
998	Super	5500	8 1/4" x 5/8"	2 31/32"	2 13/32"
999	Super	3900	9 1/4" x 5/8"	3 9/16"	2 7/16"

Cat. No.	Rated at 115V	Bearings	Length	Net Wt.	Ship. Wt.
996	12 amps.	3 ball 1 needle	13 3/4"	13 1/4 lb.	15 1/2 lb.
997	12.5 amps.	3 ball 1 needle	13 3/4"	13 1/2 lb.	15 3/4 lb.
998	13 amps.	3 ball 1 needle	13 3/4"	13 3/4 lb.	16 lb.
999	13 amps.	4 ball	14 1/2"	15 3/4 lb.	21 lb.

Voltages Available (universal motor): 115V AC only. Kit Standard Equipment: Super Sawcat with Electric Brake; Rip Fence, steel Carrying Case.

BLACK & DECKER

6½" SAWCAT Cat. No. 975 — \$59.00



Powerful, lightweight, excellent balance. Strong insulated Fiberglas® handles and switch. Strong steel base ... won't rust ... won't mark work. New cast quadrant and wrap-around base for support at any angle. Heat-treated Helical gears for long life. Precision Bearings: 1 sleeve, 1 roller, 2 ball.

Std. Equip.: No. 54804 Wrench, Combination Saw Blade.

Voltage Available: (universal motor) 115V AC/DC.

**BUILDERS' SAWCATS*
Portable Electric Saws**



6½" Builders' Sawcat,
Cat. No. 986 — \$72.00
6½" Builders' Sawcat Kit,
Cat. No. 986K — \$86.00



7¼" Builders' Sawcat,
Cat. No. 987 — \$83.00
7¼" Builders' Sawcat Kit,
Cat. No. 987K — \$97.00



8" Builders' Sawcat,
Cat. No. 988, \$94.00
8" Builders' Sawcat Kit,
Cat. No. 988K, \$108.00

Packed with Power; Built with Outstanding Cost-Cutting Features; Priced Just Right.

FEATURES

Balanced for perfect control at all times. More precise and accurate cutting due to greater blade visibility from motor side. Fast, easy access to every component. Baffled air inlets protect motor from wood chips, etc. Handle, control knobs and trigger switch insulated for safety. Simple, easy depth and angle adjustment. Built for long life. Accessory Base Attachment attaches to saw to support right side of saw on jobs where this is needed.

Cat. No.	Duty Rating	No-load R.P.M.	Blade Diam.	Maximum Depth	
				90°	45°
986	Heavy	5500	6½" x 5/8"	2¾"	1¾"
987	Heavy	5500	7¼" x 5/8"	2½"	2¼"
988	Heavy	5500	8" x 5/8"	2¾"	2½"

Cat. No.	Rated at 115V	Bearings	Length	Net Wt.	Ship. Wt.
986	11 amp.	2 ball 2 needle	13¾"	12¾ lb.	15 lb.
987	11.5 amp.	2 ball 2 needle	13¾"	13 lb.	15¼ lb.
988	12 amp.	2 ball 2 needle	13¾"	13¼ lb.	15½ lb.

Standard Voltages (universal): 115V AC/DC. Specify voltage. Kit Standard Equipment: Builders' Sawcat, Rip Fence, steel carrying case.

*A Black & Decker Trademark.

CIRCULAR SAW BLADES



COMBINATION

Specifically designed for general-purpose ripping and cross-cutting. Fast, smooth cuts.



CROSSCUT

Perfect for smooth, fast cross-cutting. Makes smoother cuts than Combination Blade.



RIP

Fast for rip cuts. Minimum binding and better chip clearance given by large teeth.



PLANER

Hollow-ground for Very Smooth ripping and cross-cutting. Ideal for interior woodwork, etc.



FLOORING

Use where nails may be encountered — floors, reclaimed lumber, opening crates, etc.



CARBIDE-TIPPED

Fastest, smoothest, longer sawing without blade sharpening. Tungsten carbide tips stay sharp up to 50 times longer than steel. Have 8 teeth. Cuts wood, Transite, Cemesto Board, asbestos, Formica, Masonite, composition siding, roofing materials, etc.



METAL-CUTTING

Teeth shaped and set for cutting aluminum, copper, lead; other soft metals.



PLYWOOD

Hollow-ground to give an exceptionally smooth cut in plywood. No binding or splintering. Sheds rosin and glue



FRICTION

Perfect for corrugated galvanized sheets. Faster, less dirt than with abrasive blades. Taper ground for clearance. Note difference in diameters. For best results, use blade diameters recommended in chart.



FRAMING

A medium pitch combination blade for fascia, roofing, siding, sub-flooring, framing, form-cutting, (standard equipment blade for worm drive saws).



ABRASIVE BLADES

Highest quality grit gives Longer Life, Faster Cutting — real time and money savers. Efficiently cut or slot materials below. Reinforced with fiberglass to give Safe Performance and Longer Life — makes blades highly break-resistant.

Blue Label: aluminum oxide; cuts ferrous metals (steel, cast iron, stainless steel) & hardened non-ferrous (hard brass, aluminum, bronze).

Red Label: silicon carbide; cuts masonry materials, concrete, soft brick, cinder block, asbestos cement, concrete block, gypsum wallboard, Transite, limestone, sandstone, corrugated plastic, and soft non-ferrous metals.

Green Label: silicon carbide; cuts glazed and ceramic tile, terrazzo, hard brick, roofing and structural tiles, terra cotta, marble, granite, slate, etc.



"SELECT QUALITY" BLADES

Low priced combination blades for general-purpose ripping and cross-cutting. Fast, efficient.

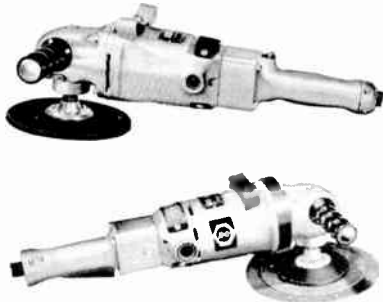
Price on Application

BLACK & DECKER

7" HEAVY-DUTY SANDER

Cat. No. 92 — \$90.00

For Medium Industrial Use



Designed for general-purpose industrial service. Ball-bearing equipped throughout. Use with 7" Abrasive Discs, 4" Wire Cup Brushes, 7" Rubbing Pads. Spindle: 5/8"-11". Length: not including pad — 17 3/4". Weight: net 10 5/8 lbs.; shipping — 13 lbs.

Speed: no-load — 4250 R.P.M. Standard Equipment includes spindle locking pin; trigger switch with locking button; reversible side handle; strap-metal stand; 7" Quick-Change Super-Flexible Backing Pad and Washer.

Voltages Available: 115 volts or 220 volts AC/DC.

HEAVY-DUTY INDUSTRIAL SANDER

Cat. No. 890-5 — \$114.00



Specifications	No. 890-5 \$114.00
Backing pad diameter	6 3/4"
Switch type	lever
No-load RPM	5000
Length w/o pad	18 5/16"
Rubbing backing pad	4 3/4"
Net weight lbs.	14 1/4
Shipping wt. lbs.	18 1/8

SUPER-DUTY ANGLE GRINDER

Cat. No. 797G-8 — \$176.00



Superior power. Special motor laminations give most power per pound. Outperforms all others in doing jobs fast. Longest life. Does jobs not possible before. Built-in circuit breaker, special resin and varnish on motor wire given double overload protection.

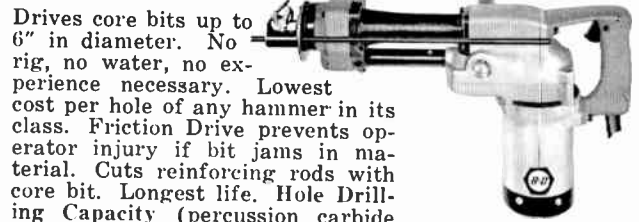
Specifications (5/8"-11 spindle thread)	Cat. No. 797G-8 \$176.00
Depressed center wheel	7" x 1/4"
Instant release lever switch	Yes
No-load R.P.M.	8000
Length w/o pad	20 1/4
Net weight lbs.	18 3/4
Shipping weight lbs.	24

Std. Equip.: depressed center wheel, guard assembly, hard rubber stand, reversible side handle, spindle lock, clamp washer, spanner wrench.

Voltages Available (universal motor): 115V or 220V AC only (for DC operation remove circuit breaker).

HEAVY-DUTY ROTARY HAMMER

Cat. No. 719 — \$315.00



Drives core bits up to 6" in diameter. No rig, no water, no experience necessary. Lowest cost per hole of any hammer in its class. Friction Drive prevents operator injury if bit jams in material. Cuts reinforcing rods with core bit. Longest life. Hole Drilling Capacity (percussion carbide bits) 3/4" to 1 1/2", (core bits) 4"; Blows/min. (no-load) 3600, Rated-load RPM 485; 17" long; 19 1/2 lb. net.; 29 5/8 lb. ship. wt. Std. equip.: depth gauge; tool retaining spring; reversible side handle; 4 oz. can of oil; dust shield; sturdy fiber carrying case; 4 oz. plastic bottle of oil; pump oiler.

Voltages Available (universal motor): 115V or 220V AC/DC.

HEAVY-DUTY ROTARY HAMMER

Cat. No. 718 — \$240.00



Lowest cost, most powerful, lightest weight hammer in its class. Exclusive compact design (patent pending). Easiest to handle. Friction Drive, externally adjustable, prevents operator injury if bit jams in material. Use with percussion bits or forged hammer tools. Longest life. Hole Drilling Capacity (percussion carbide bits) 1/4" to 1 1/2", (core bits) 2"; Blow/min. (no-load) 3350, Rated-load RPM 700; 13 3/4" long; 12 7/8 lb. net wt.; 24 lb. ship. wt.

Std. Equip.: depth gauge; tool retaining spring; reversible side handle; 4 oz. can of oil; dust shield; sturdy fiber carrying case; 4 oz. plastic bottle of oil; pump oiler.

Voltages Available (universal motor): 115V or 220V AC/DC.

SUPER-DUTY HAMMER

Cat. No. 109 — \$390.00

Extra Heavy-Duty Construction, Performance

Lowest possible maintenance costs and longest service life in its class. Outstanding as a demolition tool. Improved from end to end.

Std. Equip.: turning handle; tool retaining yoke mounted on barrel; trigger switch; can of oil; carrying case.



Operating Range (hole diam.)	Blows per min.	No. of times faster than hand drilling	Length	Net Wt.	Ship. Wt.
1 1/16" to 2 1/2"	1750	32	22 1/2"	31 1/4 lbs.	45 3/4 lbs.

Std. voltages: ("Universal" motor): 115V or 220V AC/DC.

HEAVY-DUTY ELECTRIC HAMMERS

Cat. No. 102 — Cat. No. 103-1 — Cat. No. 104-1 — 1/2" — \$165.00 1" — \$205.00 1 1/2" — \$265.00

Greatly speeds up any drilling or cutting operations requiring a hammer action. For drilling and channeling in concrete, stone or brick; removing form marks from concrete surfaces; caulking joints and seams in tanks; pipe lines, etc.; and removing scale in boilers, tanks, etc.

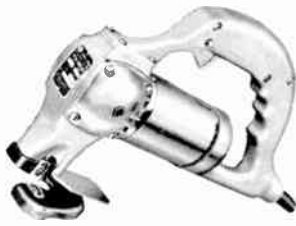
Std. Equip.: chuck wrench; dust shield; 2 tool retaining springs; drift key; can of oil; carrying case.

Std. voltages: ("Universal" motor): 115V or 220V AC/DC.

Cat. No.	Model	Operating Range (hole dia.)	Blows /min.	Lgth. ins.	Net Wt.	Ship. Wt.	Prices
102	1/2"	3/4" to 3/4"	2400	12 3/8	5 3/4 lbs.	13 lbs.	\$165.00
103-1	1"	1/4" to 1 1/8"	2300	14 5/8	10 3/4 lbs.	21 lbs.	\$205.00
104-1	1 1/2"	1/2" to 2"	2200	18 1/8	19 1/4 lbs.	32 lbs.	\$265.00

BLACK & DECKER

ELECTRIC SHEARS Cat. No. 259 — \$145.00



Cut ferrous and non-ferrous sheet metal with a powerful scissors-like action—up to 30 feet per minute in cold rolled steel. Follow pattern lines perfectly, only a light forward pressure is needed. Built for top output on production work.

No. 16 Shear	
Capacity in steel	16 gage (.0598")
— in Monel or Stainless	18 gage
Strokes per Minute	No-load, 3300 full load, 2500
Min. Cutting Radius	3/8"
Weight	net — 6 3/4 lbs. ship. — 8 lbs.
Size	11" lg., 9 1/4" high
Catalog No.	259
	\$145.00

Standard Equipment: Instant-release trigger switch with locking button; 3-conductor cable and plug; pair of tool-steel shear blades.

Voltages Available: 115 volts or 220 volts A.C. or D.C.

HEAVY-DUTY NIBBLERS

Cat. No. 632 — \$165.00



No. 632

No. 632—For Continuous Production Cutting in all types of sheet metal. Up to 18 ga. (20 ga. for Monel or Stainless Steel); 16 ga. for intermittent heavy-duty cutting of steel (18 ga. for Monel or Stainless Steel). Cuts many types of corrugated metals, plastics, composition materials.

Specifications	No. 632 H.D. Nibbler Cat. No. 632 \$165.00
Capacity in steel	U.S. Std. 16 gage
— in Monel or Stainless	U.S. Std. 20 gage
Non-ferrous metals	—
Strokes per Minute	no-load 3300 rated-load 2500
Min. Cutting Radius	1" outside edge, 1 1/16" inside
Net Wt.	5 1/2 lbs.
Size	9 1/4" long, 7 1/2" high

HEAVY-DUTY SABRE SAWS

Cat. No. 682-6 6-Speed — \$110.00

Cat. No. 682-2 2-Speed — \$100.00

Cat. No. 682 1-Speed — \$95.00

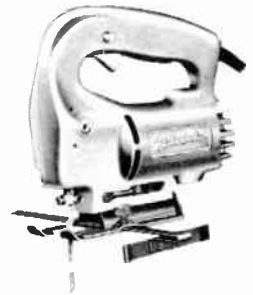


Cuts wood, metal, plastics, etc. Most powerful on the market. Has many Exclusive B&D features. Available in 1-Speed, 2-Speed and 6-Speed models—the correct speed for every job. Stroke Length: 1"; Stroke per min.: (1-Speed) 2300; (2-Speed) 2300 High, 1100 Low; (6-Speed) 2300 High, 980 Low. Capacity: (Wood) heavy timbers, (steel) 1", (scroll cutting) down to 1/4" radius. Length w/o blade 15"; Net wt. 8 3/4 lbs., Ship. wt. 9 3/4 lbs. Std. Equip.: Nos. 49122 & 49115 Blades. Voltages Available (2-Speed & 6-Speed Saws) 115V or 220V AC; (1-Speed Saw) 115V or 220V AC/DC.

Cat. No. 49304 Blade Clamp Nut and Clamp Screw ----- \$1.10

Cat. No. 49303 Hex Socket Blade Clamp Wrench—\$.35

STANDARD JIG SAW Cat. No. 41 — \$45.00



Low Priced, Light Weight, Versatile, Fast Cutting. Makes 45° angle cuts. Air keeps cutting line visible. No splintering of upper wood surface.

Efficiency Rating: up to 2 1/2" in soft wood; 3/4" in Aluminum; 1/4" in Steel.

Length of Stroke: 5/8".

Speed: 3000 strokes per min.

Size: 7" long, height w/o blade: 6 7/8". Wt.: 4 1/2 lbs. net, 5 3/4 lbs. ship. Std.

Equip.: No. 49491 Fine

Tooth Metal Cutting Blade; No. 49493 Medium Tooth Wood Cutting Blade; combination rip fence and circle cutting guide; wrench for blade changing.

Voltages Available: 115 Volts or 220 Volts AC only.

HEAVY-DUTY JIG SAW

Cat. No. 11 — \$115.00

Fast-working, powerful. Designed for heavy-duty, continuous production operations. Makes bevel cuts up to 1 3/8" on either side. Long service-life.

VACUUM FISH TAPE SYSTEMS Patents Pending

Equipped with the

POWERFUL NEW HEAVY-DUTY HI-AIR-FLO Vacuum Cleaners



Cat. No. 990-1



Cat. No. 990-3



Cat. No. 52387
Vac. Fish Tape
Kit only



Cat. No. 990-2



Cat. No. 990-4

- Low cost, fast, safe way to run pull-lines through conduit. All parts reusable.
- Compact, lightweight. Works in tight places (closets, scaffolds, ladders).
- Powerful vacuum cleaner suction pulls carrier (with rope attached) through 1/2" to 6" nominal I.D. conduits.
- Collects foreign matter, including water, in tank. Cleans Conduit.
- Carriers are non-conductors, no electrical hazards. Safe.

Please see B&D Catalog Folder No. 1018 for complete information.

CAT. NO. 990-1 VACUUM FISH TAPE SYSTEM — \$320.00

Contents: 165-1 H.D. Vacuum Cleaner; Vacuum Fish Tape Kit; No. 33058 15 ft. 1 1/2" I.D. Semi-flexible Extra Heavy-Duty Hose; No. 49326 Water Shut-off Valve.

CAT. NO. 990-2 VACUUM FISH TAPE SYSTEM — \$335.00

Contents: No. 165-2 H.D. Vacuum Cleaner; Vacuum Fish Tape Kit; Nos. 33058 Hose and 49326 Water Shut-off Valve.

CAT. NO. 990-3 VACUUM FISH TAPE SYSTEM — \$365.00

Contents: No. 165-3 H.D. Vacuum Cleaner with stainless steel tank resistant to acids and corrosion and a convenient drain at rear of tank; Vacuum Fish Tape Kit; Nos. 33058 Hose and 49326 Water Shut-off Valve.

CAT. NO. 990-4 VACUUM FISH TAPE SYSTEM — \$380.00

Contents: No. 165-4 H.D. Vacuum Cleaner with stainless steel tank resistant to acids and corrosion and a convenient drain at rear of tank. Vacuum Fish Tape Kit; Nos. 33058 Hose and 49326 Water Shut-off Valve.

CAT. NO. 52387 VACUUM FISH TAPE KIT — \$87.75

Contains all of the equipment needed to convert your Black & Decker Heavy-Duty Industrial Vacuum Cleaner into a Vacuum Fish Tape System. Ship. Wt. 15 lbs.

POWER ACTUATED TOOLS AND FASTENERS

DRIVEPINS FOR HIGH VELOCITY TOOLS



**HIGH VELOCITY
MODEL D550**

\$124.95

Catalog No.		O.A. Lgth.	Size, Inches		Shank Dia.	Shpg. Wt. Lbs. Per 100	Per 100
Diamond	Ramset		Thread Lgth.	Shank			
For 1/2" Barrel							
PH500	2326	1	.....	3/32	3/4	\$11.00
PH502	2327	1 3/32	.....	3/32	3/4	11.50
PH504	2335	1 3/16	.....	3/32	1	12.50
PH506	.....	2 3/16	.....	3/32	1 1/2	13.00
PH508	2337	2 5/8	.....	3/32	1 3/4	13.50
PH510	2330	3 3/32	.....	3/32	2	14.00
Threaded 1/4"-20 N.C.							
SH700	2426	1 3/4	1/2	5/32	1 1/2	14.75	
SH702	2428	2	3/4	5/32	1 1/2	15.00	
SH704	2430	2 3/8	1 1/8	5/32	2	16.00	
SH706	.....	1 3/4	3/4	11/32	1 1/2	16.00
SH708	2431	3 1/8	1 7/8	5/32	2 1/2	19.00	
Threaded 10-24							
SH710	2477A	1 5/8	5/8	5/32	1 1/2	14.50	
Threaded for Steel 1/4"-20 N.C.							
SH712	2401	1 7/8	3/4	5/32	3/4	12.50	
SH714	2402	1 7/8	1/2	5/32	1	13.50	
SH716	.....	1 7/8	3/4	5/32	1 1/4	13.80
SH718	2403	1 11/8	1 1/8	5/32	1 1/2	15.00	
Eye-Pin							
EP830	3601	1 11/8	.....	7/8	1 3/4	19.25

LOW VELOCITY AND HAMMER DRIVE

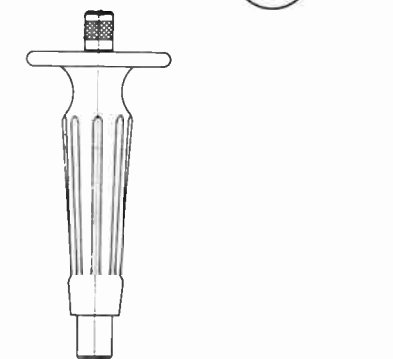


**LOW VELOCITY
MODEL D180**

\$114.50

Catalog No.		O.A. Lgth.	Size, Inches		Shank Dia.	Shpg. Wt. Lbs. Per 100	Per 100
Diamond	Ramset		Thread Lgth.	Shank			
Headed 1/4" Drive Pins							
ML40	P204	1/2	.....	.125	7/8	\$5.25
ML41	P206	3/4	.....	.125	1/2	5.50
ML42	P208	1	.....	.125	11/8	7.25
ML43	P210	1 1/4	.....	.125	11/8	8.25
ML44	P212	1 1/2	.....	.125	11/8	9.85
ML45	P214	2	.....	.125	1 5/8	10.50
ML46	P216	2 1/2	.....	.125	1 5/8	11.60
ML47	P218	3	.....	.125	1 11/8	12.60
Threaded 1/4"-20							
MSL72	.....	1	1/4	.143	1	9.25
MSL73	S204	1 1/4	1/2	.143	1 1/4	9.80	
MSL74	S206	1 1/2	1/2	.143	1 1/2	10.50	
MSL75	.....	2 1/4	1 1/4	.143	2	11.50
MSL76	S212	2 1/2	1 1/4	.143	2	13.50	
MSL77	.....	1 1/2	3/4	.143	1 1/4	11.00
Wire Loop Studs							
WP101	PW206	1 1/2	3/4	.143	1 1/4	7.75	
WP102	PW208	1 3/4	1	.143	1 1/2	8.75	
WP103	PW210	2	1 1/4	.143	1 1/2	9.25	
Wire Loops							
Cat. No.	Loop Size, In.	Thread Lgth.	Shank Lgth.	Shank Dia.	Shpg. Wt. Lbs. Per 100	Per 100	
WL120	1/2	.....	.....	.....	1	\$1.00
WL121	5/8	.....	.....	.....	1 1/2	2.00
WL122	7/8	.....	.....	.....	3 1/4	3.00
WL123	1 1/4	.....	.....	.....	4	4.00

POWER LOADS



**MANUAL TOOL
MODEL HD11**

\$4.95

Catalog No.		Wad Color	Power Level	Case	Wt. Oz. Per 100	Per 100
Diamond	Ramset					
22 Cal. Loads						
W-322	322 W	Green	Lt.	Brass	3	\$5.95
W-422	422 W	Yellow	Med.	Brass	3	5.95
W-522	522 W	Red	Hvy.	Brass	3	5.95
W-622	622 W	Purple	X Hvy.	Brass	3	5.95
25 Cal. Loads						
W-625	.....	Purple	Hvy.	Brass	7	5.95
W-725	.....	Grey	X Hvy.	Nickel	7	5.95
Crimped 22 Cal. Loads for Competitive Low Velocity Tools						
C222	220W	Brown	Sub Lt.	Copper	3	5.15
C322	320W	Green	Lt.	Nickel	3	5.15
C422	420W	Yellow	Med.	Nickel	3	5.15
Crimped 25 Cal. Loads for Model D180 Low Velocity Tool						
C125	.....	Grey	Min.	Brass	3	5.15
C225	.....	Brown	Sub Lt.	Brass	3	5.15
C325	.....	Green	Lt.	Brass	3	5.15

MASONRY AND HOLLOW WALL FASTENERS

PLASTIC ANCHORS



Uses: Light loads — drapery fixtures, telephone and electrical installations.

Catalog No.	Rawl	Lgth. In.	Screw Sizes	Drill Size In.	No. Per Ctn.	Per 100
8210	7519	1	6, 8, 10	$\frac{3}{16}$ "	1000	\$0.80
8220	7529	1	10, 12	$\frac{1}{4}$ "	1000	1.00
8230	7539	1½	14, 16	$\frac{1}{8}$ "	500	1.35

PLASTIC ANCHOR KITS



Diamond Kit Pack	Plastic Anchors	Diamide Drill	Sheet Metal Screws	Per Kit
D8210-8	100-#1	1 $\frac{3}{16}$ "	100-#8 x 1"	\$3.74
D8220-10	100-#2	1 $\frac{1}{4}$ "	100-#10 x 1"	4.67
D8220-12	100-#2	1 $\frac{1}{4}$ "	100-#12 x 1"	4.67

PLASTI-SLEV



Diamond Cat. No.	Size	Drill Size In.	No. Per Box	No. Per Ctn.	Wt. Lbs. Per 1000	Per 100
9310	6-8 x $\frac{3}{8}$ "	$\frac{3}{16}$ "	100	1000	1	\$1.04
9320	8-10-12 x 1"	$\frac{1}{4}$ "	100	1000	2	1.64
9330	12-14 x 1 $\frac{1}{4}$ "	$\frac{5}{16}$ "	50	500	3½	2.35

No. 9320-10SP Plasti-Slev Kit — 100-#8-10-12 x 1" Plasti-Slev anchors, 100-#10 x 1" sheet metal pan head screws and 1- $\frac{1}{4}$ " carbide tipped masonry drillper kit \$4.27

LEAD SCREW ANCHORS



Uses: Light loads — bathroom fixtures, telephone installations.

Catalog No.	Rawl	Screw Size	Drill Size In.	No. Per Ctn.	Wt. Lbs. Per 100	Per 100
5212	9410	6-8 x $\frac{3}{8}$ "	$\frac{1}{4}$ "	1000	1	\$2.95
5216	9415	6-8 x 1"	$\frac{1}{4}$ "	1000	1½	3.20
5224	9420	6-8 x 1½	$\frac{1}{4}$ "	1000	1½	3.33
5312	.....	10-14 x $\frac{3}{8}$ "	$\frac{3}{16}$ "	1000	1½	3.26
5316	9430	10-14 x 1"	$\frac{3}{16}$ "	1000	1½	3.40
5324	9440	10-14 x 1½"	$\frac{3}{16}$ "	1000	2½	4.45
5516	.....	16-18 x 1"	$\frac{3}{8}$ "	1000	2½	4.08
5524	9460	16-18 x 1½"	$\frac{3}{8}$ "	1000	4	5.17
5628	9470	20-24 x 1¾"	$\frac{7}{16}$ "	500	5½	6.66

DIAMOND HOLLOW WALL ANCHORS



Cat. No.	Size	Dimens., In. Hole dia. Lgth.	For Walls In.	Std. Pkg.	Per 100
7921	4SS	$\frac{1}{4}$ " 1"	$\frac{1}{8}$ " to $\frac{3}{8}$ "	50	\$4.00
7921M	4SM	$\frac{1}{4}$ " 1 $\frac{1}{8}$ "	$\frac{3}{8}$ " to $\frac{3}{4}$ "	50	4.66
7922	4SL	$\frac{1}{4}$ " 2"	$\frac{1}{8}$ " to $\frac{3}{4}$ "	50	5.33
7922-L	4LL	$\frac{1}{4}$ " 2½"	$\frac{5}{8}$ " to 1 $\frac{1}{4}$ "	50	6.00
7923	5SL	$\frac{1}{8}$ " 2¾"	$\frac{1}{4}$ " to 1 $\frac{1}{4}$ "	25	8.00

RAWLPLUGS



FIBR-SLEV®



Jute Fiber Screw Anchors

Made of braided jute, nature's toughest fiber. Can be used in any masonry material.

Catalog No.	Rawl	Diamond	Size	Drill Size	No. Per Ctn.	Wt. Lbs. Per 1000	Per 100
9001	90610		6 x $\frac{3}{8}$ "	#6	1000	1	\$1.62
9003	90612		6 x $\frac{1}{2}$ "	#6	1000	1½	1.68
9005	90616		6 x 1"	#6	1000	1½	1.80
9009	90810		8 x $\frac{3}{8}$ "	#8	1000	1½	1.86
9011	90812		8 x $\frac{1}{2}$ "	#8	1000	1½	1.92
9013	90816		8 x 1"	#8	1000	2	2.04
9017	90824		8 x 1½"	#8	1000	2½	2.28
9024	91012		10 x $\frac{3}{8}$ "	#10	1000	1¾	2.04
9026	91016		10 x 1"	#10	1000	2¾	2.28
9028	91020		10 x 1¼"	#10	1000	2½	2.52
9030	91024		10 x 1½"	#10	1000	3	2.76
9037	91212		12 x $\frac{3}{8}$ "	#12	1000	2¾	2.52
9039	91216		12 x 1"	#12	1000	3	2.76
9041	91220		12 x 1¼"	#12	1000	3½	3.00
9043	91224		12 x 1½"	#12	1000	4	3.24
9050	91416		14 x 1"	#14	1000	4	3.24
9052	91420		14 x 1¼"	#14	1000	4½	3.60
9054	91424		14 x 1½"	#14	1000	5¼	3.96
9056	91432		14 x 2"	#14	500	6¾	4.68
9061	91616		16 x 1"	$\frac{5}{16}$ "	500	5	3.66
9063	91624		16 x 1½"	$\frac{5}{16}$ "	250	7¾	4.56
9065	91632		16 x 2"	$\frac{5}{16}$ "	250	8	5.46
9070	92016		20 x 1"	$\frac{3}{8}$ "	500	6	5.40
9072	92024		20 x 1½"	$\frac{3}{8}$ "	250	9	6.60
9074	92032		20 x 2"	$\frac{3}{8}$ "	250	12½	7.80

CONTRACTOR'S KIT



Kit No. R-8 Contents: 100 #8 x 1" Rawlplugs; 100 #8 x 1" screws; 1 #8 ($\frac{11}{16}$ ") carbide drill.

Kit No. R-10 Contents: 100 #10 x 1" Rawlplugs; 100 #10 x 1" screws; 1 #10 ($\frac{11}{16}$ ") carbide drill.

Kit No. R-12 Contents: 100 #12 x 1" Rawlplugs; 100 #12 x 1 $\frac{1}{4}$ " screws; 1 #12 ($\frac{11}{16}$ ") carbide drill.

Rawl Cat. No.	Kit No. & Size	Each	Rawl Cat. No.	Kit No. & Size	Each
8977	R-8 (#8)	\$4.13	8987	R-12 (#12)	\$5.40
8982	R-10 (#10)	4.60			

RAWL HOLLOW WALL ANCHORS

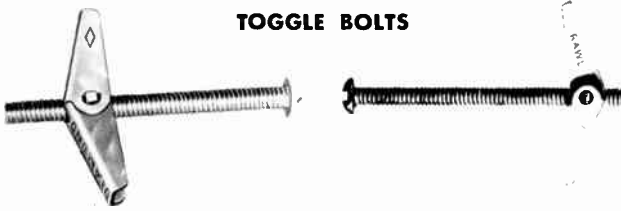


A screw anchor designed specifically for use in hollow materials, such as plaster, sheet-rock, cinder block, hollow tile, etc.

Rawl Cat. No.	Size	Rawl drill Size and Diam.	Pcs. Per Box	Per 100
2101	$\frac{1}{8}$ " Short	#16 ($\frac{1}{8}$ ")	100	\$5.35
2102	$\frac{1}{8}$ " Long	#16 ($\frac{1}{8}$ ")	100	5.50
2103	$\frac{1}{8}$ " Extra Long	#16 ($\frac{1}{8}$ ")	50	7.13
2111	$\frac{1}{8}$ " Short	#20 ($\frac{3}{8}$ ")	50	8.32
2112	$\frac{1}{8}$ " Long	#20 ($\frac{3}{8}$ ")	50	8.47
2113	$\frac{1}{8}$ " Extra Long	#20 ($\frac{3}{8}$ ")	25	9.50
2121	$\frac{1}{4}$ " Short	$\frac{7}{16}$ "	50	8.62
2122	$\frac{1}{4}$ " Long	$\frac{7}{16}$ "	25	8.77
2123	$\frac{1}{4}$ " Extra Long	$\frac{7}{16}$ "	25	10.69

MASONRY AND HOLLOW WALL FASTENERS

TOGGLE BOLTS



Catalog No.		Std. Pkg.	Size, Inches		Wt. Lbs. Per 100	Per 100
Rawl	Diamond		Bolt Dia.	Drill Lgth.		
4021	7022	500	3/8 x 2	3/8	1 1/2	\$ 7.04
4031	7023	500	3/8 x 3	3/8	1 3/4	7.92
4041	7024	500	3/8 x 4	3/8	2 1/4	8.88
4121	7032	500	1/2 x 2	1/2	3 1/2	7.48
4131	7033	500	1/2 x 3	1/2	4	8.36
4141	7034	500	1/2 x 4	1/2	4 1/2	8.88
4151	7035	500	1/2 x 5	1/2	5	10.56
4161	7036	500	1/2 x 6	1/2	5 1/2	11.00
4231	7043	500	3/4 x 3	3/4	7	9.24
4241	7044	500	3/4 x 4	3/4	8	9.68
4251	7045	500	3/4 x 5	3/4	9	12.32
4261	7046	500	3/4 x 6	3/4	10	13.64
4331	7053	250	3/8 x 3	7/8	11	14.08
4341	7054	250	3/8 x 4	7/8	13	14.96
4351	7055	250	3/8 x 5	7/8	15	18.92
4361	7056	250	3/8 x 6	7/8	17	20.24
4431	7063	250	3/4 x 3	7/8	17	18.48
4441	7064	250	3/4 x 4	7/8	19	20.24
4451	7065	125	3/4 x 5	7/8	22	25.08
4461	7066	125	3/4 x 6	7/8	25	26.40
4541	7084	125	1/2 x 4	1 1/4	42	35.64
4561	7086	125	1/2 x 6	1 1/4	51	51.92

CALKING ANCHORS



Uses: Medium loads — electrical installations, plumbing fixtures.

Catalog No.		No. Per Ctn.	Size, In.		Ctn. Wt. Lbs.	Per 100
Diamond	Rawl		Bolt Dia.	Drill		
3020*	9200	1000	6-32	1/4	5 1/2	\$4.68
3025*	9205	1000	8-32	3/8	8 3/4	5.07
3030	9210	500	10-24	3/8	9 1/2	5.85
3035*	9215	500	12-24	7/8	14	7.41
3040	9220	500	1/4-20	1/2	22 1/4	8.58
3050	9225	500	3/8-18	3/4	41 3/4	11.70
3060	9230	250	3/8-16	3/4	32 1/4	15.60
3080	9240	250	1/2-13	3/4	44 7/8	20.28
3100	9245	100	3/4-11	1 1/4	42 3/4	39.00
3120	9250	50	3/4-10	1 1/4	27 1/4	58.50

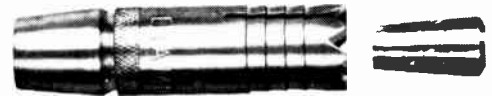
*Not available as Red Seal.
Each box packed with calking tool.

HAMMER DRIVE ANCHORS



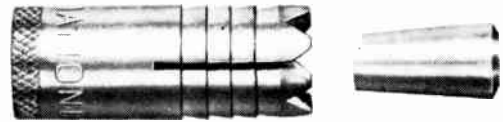
Catalog No.		No. Per Ctn.	Size, Inches		Wt. Lbs. Per 100	Per 100
Diamond	Rawl		Bolt Dia.	Drill		
4314	2802	1000	3/8 x 3/8	3/8	1	\$ 2.93
4320	.....	1000	3/8 x 1 1/4	3/8	1 1/8	3.67
4416	2808	1000	1/4 x 1	1/4	1 1/2	4.77
4420	2814	1000	1/4 x 1 1/4	1/4	2	5.13
4424	2820	1000	1/4 x 1 1/2	1/4	2 1/8	6.48
4520	.....	1000	3/8 x 1 1/4	3/8	2 3/4	7.56
4528	.....	500	3/8 x 1 3/4	3/8	3 1/2	8.64
4536	.....	500	3/8 x 2 1/4	3/8	4 1/2	9.72
4544	.....	500	3/8 x 2 3/4	3/8	5	11.88
4632	.....	500	3/8 x 2	3/8	6 1/2	12.93
4652	.....	500	3/8 x 3 1/4	3/8	8 1/4	20.42
4836	.....	250	1/2 x 2 1/4	1/2	11 1/2	27.45
4856	.....	250	1/2 x 3 1/2	1/2	15 1/2	33.32

**SELF DRILLING ANCHORS
SNAP-OFF FLUSH TYPE**



Catalog No.		Bolt Dia.	Size, Inches		Dpth. of Threds.	Per 100
Rawl	Diamond		Shell O.D.	Shell Lgth.		
6003	B103	3/8	7/8	1 3/8	7/8	\$11.40
6004	B104	1/4	7/8	1 3/8	7/8	11.40
6005	B105	3/8	1 1/8	1 7/8	7/8	13.53
6006	B106	3/8	1 1/8	1 7/8	1 1/4	17.86
6008	B108	1/2	1 1/8	2	7/8	26.80
6010	B110	5/8	7/8	2 1/2	1 1/4	43.86
6012	B112	3/4	1	3 3/8	1 1/4	67.42
6014	B114	7/8	1 1/4	3 1/2	1 1/2	90.64

FLUSH TYPE



Catalog No.		Bolt Dia.	Size, Inches		Dpth. of Threds.	Per 100
Rawl	Diamond		Shell O.D.	Shell Lgth.		
6104	B204	1/4	1 3/8	1 3/8	7/8	\$10.40
6105	B205	3/8	1 1/2	1 7/8	7/8	12.47
6106	B206	3/8	1 1/2	1 7/8	1 1/4	16.80
6108	B208	1/2	1 1/4	2	7/8	25.40
6110	B210	5/8	7/8	2 7/8	1 1/4	36.83
6112	B212	3/4	1	3 1/4	1 1/4	58.91

HEAVY DUTY MACHINE BOLT ANCHORS



Catalog No.		No. Per Ctn.	Size Inches	Ctn. Wt. Lbs.	Per 100
Diamond	Rawl				
.....	9310	1000	3/8	9	\$ 7.94
1704	9320	500	1/4	17 3/4	8.27
.....	9330	500	3/8	27 1/2	11.53
1706	9340	250	3/8	17 3/4	13.13
1708	9350	125	1/2	12 1/2	19.93
1710	9360	125	3/8	20 1/4	27.60
1712	.....	50	3/4	12 1/2	42.67

LAG-SHIELDS



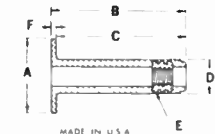
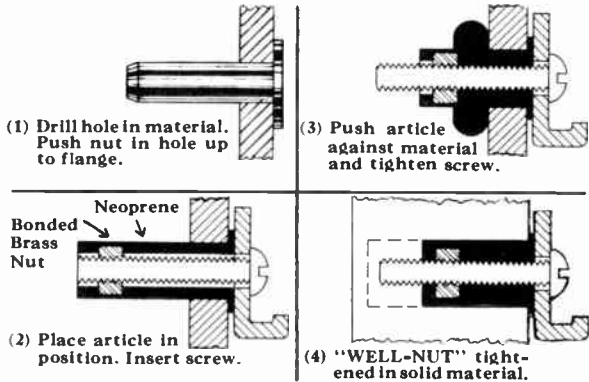
Uses: Vibration free loads — outdoor signs, fire escapes.

Catalog No.		No. Per Ctn.	Size, In.		Wt. Lbs. Per 100	Per 100
Diamond	Rawl		Lag Dia.	Drill		
Short						
1004	1051	500	1/4	1/2	2	\$ 9.00
1005	1101	500	3/8	1/2	2 1/2	10.80
1006	1151	500	3/8	5/8	6 1/2	15.00
1008	1201	250	1/2	3/4	8	22.80
1010	1251	125	3/4	7/8	12 1/2	27.00
1012	1301	100	3/4	1 1/8	20 1/2	39.00
Long						
1104	1055	500	1/4	1/2	4	9.90
1105	1105	500	3/8	1/2	3 3/4	11.88
1106	1155	250	3/8	3/4	8 1/4	16.50
1108	1205	250	1/2	3/4	15 1/2	25.08
1110	1255	125	5/8	7/8	23	29.70
1112	1305	100	3/4	1 1/4	37	42.90

**ROCKWELL
"WELL-NUT"®**

**A VERSATILE BLIND FASTENER THAT
SEALS LEAKS, DAMPENS VIBRATION, MUFFLES
NOISES—FASTENS ANYTHING ANYWHERE**

Well-Nut is a blind fastener and does not require access to the rear of the material. Gives equally satisfactory results in a hole in thin material or a cavity in thick material. Is air- and water-tight. Dampens vibration and muffles noises. Has locknut action and electrical insulating properties and holds in panels that are too thin for regular screws or other ordinary fasteners. Well-Nut is oil-resistant and functions in a wide temperature range. Has excellent aging qualities—the neoprene bushings lasting for many years under normal conditions. Easily removable and is reusable.



Figures are approximate
*With or without screws—
all other sizes without screws.

STANDARD PKG. 100 PER SIZE

Cat. No.	Size, Inches						Hole Size Req'd.	Per 100†
	(A) Head Dia.	(B) O.A. Lgth.	(C) Shank Lgth.	(D) Shank Dia.	(E) Thread Size	(F) Head Thkness.		
C-632*	1/8	3/4	1/8	1/4	6-32	3/2	1/4	\$8.88
E-632*	1/8	1/2	1/8	1/8	6-32	1/8	1/8	8.00
B-832	1/8	3/4	1/8	1/8	8-32	3/2	1/8	9.00
10S	1/2	1/8	3/4	3/8	10-32	3/2	3/8	8.62
10SL	1/8	1 1/8	1	3/8	10-32	1/8	3/8	10.50
G-1032	3/4	1 1/8	5/8	3/8	10-32	1/8	3/8	9.75
H-1032	1/8	3/4	1/8	3/8	10-32	3/2	3/8	9.38
J-1032	3/4	1 5/8	5/8	3/8	10-32	5/4	3/8	9.75
N-1032	5/8	1/8	3/8	3/8	10-32	1/8	3/8	8.63
Q-1032	1/8	1 1/4	5/8	3/8	10-32	5/4	3/8	9.38
A-1024	1/8	1/8	1/8	3/8	10-24	1/8	3/8	9.38
1/4 S	5/8	5/8	1 1/4	1/2	1/4-20	1/8	1/2	9.75
D-1420	3/4	3/4	1 1/4	1/2	1/4-20	1/8	1/2	10.50
J-1420	1 1/4	1 1/8	1	1/2	1/4-20	1/8	1/2	10.50
Z-3816	1 1/4	1 3/4	1 1/4	3/4	3/8-16	3/2	3/4	45.00

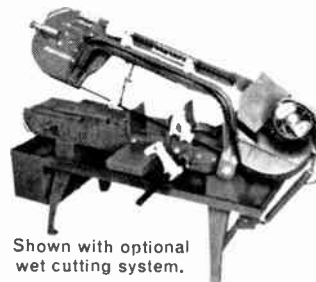
RESEARCH AND DEVELOPMENT KIT



Solve fastener problems easier when you visualize and test the various sizes of Well-Nuts available. Metal kit contains 15 different styles (over 100 fasteners) with specifications.
Research and Development Kiteach **\$10.84**

**WELLSAW®
METAL CUTTING BAND SAWS**

MODEL No. 8



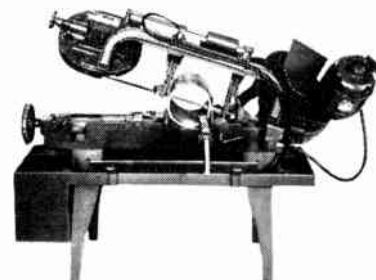
Shown with optional wet cutting system.

For production line cut-off work or general maintenance service. Counter-balanced frame and hydraulic stabilizer provide adjustable uniform feed. Sturdy design assures accuracy and dependability.

Capacity, rectangular, 9" x 16"; capacity, rounds, 9"; selective speeds, fpm, 50, 100, 175, 275; motor size, 1/2 H.P.; blade width, 3/4"; shipping weight 650 lbs.
Model No. 8 Wellsaweach **\$720.00**

MODEL 600

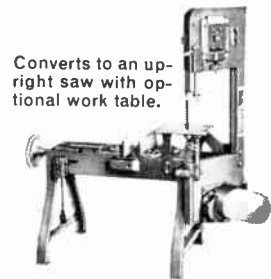
Designed for utility service, this model gives excellent service on medium production jobs. Adjustable, uniform gravity feed is provided by hydraulic stabilizer and special coil spring.



Shown with optional wet cutting system.

Capacity, rectangular, 6" x 13"; capacity, rounds, 6 3/4"; selective speeds, fpm, 50, 90, 160, 250; motor size, 1/2 H.P.; blade width, 5/8"; shipping weight, 425 lbs.
Model 600 Wellsaweach **\$520.00**

MODEL 58B



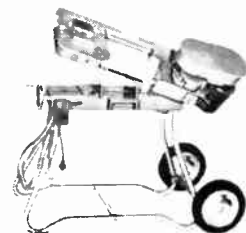
Converts to an upright saw with optional work table.

As a horizontal cut-off saw, this model features quick action vise and adjustable guides. For vertical use, just swing head into upright position and install the optional work table. Wet cutting system available.

Capacity, rectangular, 6" x 10"; capacity, rounds, 6"; selective speeds, fpm, 76, 141, 268; motor size, 1/2 H.P.; blade width, 1/2"; shipping weight, 270 lbs.
Model 58B Wellsaweach **\$395.00**

MODEL 300

Use as a horizontal cut-off machine or swing the head to vertical position and use as upright band saw. Has positive action vise and automatic shut-off after each cut.



Capacity, rectangular, 3 1/2" x 6"; capacity, rounds, 3 1/2"; selective speeds, fpm, 54, 100, 190; motor size, 1/4 H.P.; blade width, 1/2"; shipping weight, 133 lbs.
Model 300 Wellsaweach **\$280.00**

TRUCO DRILLING EQUIPMENT



TRUCO MODEL BH

Drills holes 1" to 16" diameter. Drill head pivots 360°, allows 26" of travel. Column extends from 5'2" to 11'8". Four wheeled base has four leveling screws and two holes for anchoring. Superstructure and base (no motor), shipping weight 225 lbs., \$425.00. Superstructure only, shipping weight 115 lbs., \$250.00. Base assembly complete, shipping weight 110 lbs., \$175.00. Motor prices upon request from your local Graybar office.



TRUCO MODEL BL

Drills holes 1" to 10" diameter. Drill head pivots 360°, allows 26" of travel. Column extends from 5'2" to 11'8". Two wheeled base has four leveling screws and four slots for anchoring. Superstructure and base (no motor), shipping weight 155 lbs., \$375.00. Superstructure only, shipping weight 40 lbs., \$125.00. Motor prices upon request from your local Graybar office.



TRUCO MODEL S DRILL STAND CRADLE MOUNT

Drills holes 1" to 6½" diameter. 23" drill travel. "T" handle for locking motor mount. Two wide-track wheels on the base plus four leveling screws and slot for anchoring. Choice of electric or air power. Drill stand (no motor), shipping weight 64 lbs., Part No. TDSA, \$195.00. Motor prices upon request from your local Graybar office.



TRUCO MODEL SM MACHINE MOUNT

Drills holes 1" to 8". Drill stand (no motor), shipping weight 60 lbs., Part No. TDSM, \$195.00. Motor prices upon request from your local Graybar office.



TRUCO MODEL QV

For use in restricted areas, anchor holes and installing ornamental iron work. The vacuum pump and fittings actuate a built-in vacuum pad that creates 600 lbs. (approx.) hold-down power. Drills holes 1" to 4" dia. 19" drill travel on steel gear rack and column. 8" x 16" cast aluminum base has four leveling screws and anchoring hole. Drill stand and vacuum (no motor), shipping weight 67 lbs. Part No. TDSQV, \$312.50. Motor prices upon request from your local Graybar office.

TRUCO MODEL Q

Same as model QV except without pump and fittings. Drill stand (no motor), shipping weight 45 lbs. Part No. TDSQ, \$182.50. Motor prices upon request from your local Graybar office.

TRUCO MASONRY DIAMOND BITS

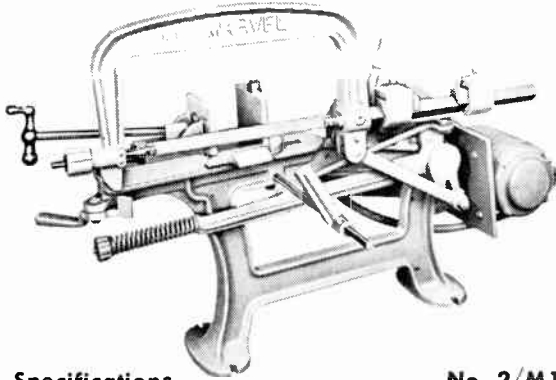
Nominal Bit O.D., In.	Actual Hole I.D., In.	Part No.	4½" Cutting Length		Resetting Charge**
			Each	Resettable	
¼	¼	FA25025†	\$ 40.45		
¾	¾	FA37545	42.35		
½	½	FA50045	44.00		
¾	¾	FA62545	47.30		
¾	¾	FA75045	56.65		\$40.15
¾	¾	FA87545	63.25		41.25
1	1	FE100045	69.85		42.35
1 ¼	1 ¼	FE112545	78.40		44.00
1 ¼	1 ¼	FE125045	85.55		45.65
1 ¾	1 ¾	FE137545	92.70		46.50
1 ¾	1 ¾	FE150045	99.55		47.30
1 ¾	1 ¾	FE162545	107.55		48.40
1 ¾	1 ¾	FE175045	115.50		49.50
2	2	FE200045	129.55		53.90
2 ¼	2 ¼	FE225045	143.85		57.20
2 ¾	2 ¾	FE237545	150.45		58.30
2 ¾	2 ¾	FE250045	158.85		62.70
2 ¾	2 ¾	FE275045	171.90		66.00
¾	¾				
¾	¾	FA937512	\$ 45.95		Not Resettable
¾	¾	FA50012	47.30		
¾	¾	FA62512	51.15		
¾	¾	FA75012	59.40		\$42.90
¾	¾	FA87512	66.55		44.55
1	1	FE100012	73.70		46.20
1 ¼	1 ¼	FE112512	82.25		47.85
1 ¼	1 ¼	FE125012	89.40		49.50
1 ¾	1 ¾	FE137512	96.55		50.35
1 ¾	1 ¾	FE150012	103.40		51.15
1 ¾	1 ¾	FE162512	111.65		52.55
1 ¾	1 ¾	FE175012	119.90		53.90
2	2	FE200012	133.95		58.30
2 ¼	2 ¼	FE225012	148.25		61.60
2 ¼	2 ¼	FE237512	155.40		63.25
2 ½	2 ½	FE250012	163.35		67.10
2 ½	2 ½	FE275012	176.30		70.40
3	3	FE300012	189.20		73.70
3 ¼	3 ¼	FE325012	203.25		78.10
3 ½	3 ½	FE350012	217.25		82.50
4	4	FE400012	249.70		95.70
4 ¼	4 ¼	FE425012	262.65		99.00
4 ½	4 ½	FE450012	277.50		102.85
5	5	FE500012	304.15		111.65
5 ¼	5 ¼	FE525012	317.65		115.50
5 ½	5 ½	FE550012	332.20		120.45
6	6	FE600012	363.55		129.80
6 ¼	6 ¼	FE625012	385.55		140.80
7	7	FE700012	421.85		174.35
8	8	FE800012	524.15		221.65
9	9	FS900012	700.15		273.90
10	10	FS100012	770.00		316.80
12	12	FS120012	935.00		385.00
14	14	FS140012	1221.00		451.00
16	16				
18	18				
20	20				

Nominal Bit O.D., In.	Actual Hole I.D., In.	Expansion Part No.	Bit Adaptors		Each
			Integral Part No.	None Required T-410 Thread on These Bits	
¼	¼				
¾	¾				
¾	¾				
¾	¾				
¾	¾				
¾	¾				
1	1	EB1000	SB1000		\$ 5.00
1 ¼	1 ¼	EB1125	SB1125		5.25
1 ¼	1 ¼	EB1250	SB1250		5.50
1 ¾	1 ¾	EB1375	SB1375		5.75
1 ¾	1 ¾	EB1500	SB1500		6.00
1 ¾	1 ¾	EB1625	SE1625		7.00
1 ¾	1 ¾	EB1750	SE1750		8.00
2	2	E2000	SE2000		8.50
2 ¼	2 ¼	E2250	SE2250		8.60
2 ¼	2 ¼	E2375	SE2375		8.70
2 ½	2 ½	E2500	SE2500		8.85
2 ¾	2 ¾	E2750	SE2750		9.00
3	3	E3000	SE3000		9.00
3 ¼	3 ¼	E3250	SE3250		9.75
3 ½	3 ½	E3500	SE3500		10.50
4	4	E4000	SE4000		11.50
4 ¼	4 ¼	E4250	SE4250		12.00
4 ½	4 ½	E4500	SE4500		12.50
5	5	E5000	SE5000		13.50
5 ¼	5 ¼	E5250	SE5250		14.75
5 ½	5 ½	E5500	SE5500		16.00
6	6	E6000	SE6000		18.00
6 ¼	6 ¼	E6250	SE6250		21.50
7	7	E7000	SE7000		25.50
8	8	E8000	SE8000		30.00
9	9		*SE9000		40.00
10	10		*SE10000		50.00
12	12		*SE12000		65.00
14	14		*SE14000		90.00
16	16		SN16000		115.00
18	18		SN18000		145.00
20	20		SN20000		180.00

*9" to 14" also available with N Rod Thread.
 †Size 9" thru 20" integral type adaptors ONLY can be returned for credit at one-half purchase cost. Adaptor must be reusable.
 ‡2 ½" cutting length.
 **Plus cost of new diamonds required.

ARMSTRONG-BLUM SAWS

MARVEL No. 2/M1 Draw Cut Hack Saw Machine



Specifications **No. 2/M1**
 Capacity.....6" x 6"
 Max. (Normal Stroke) Rd.....6 5/8"
 Square.....6 1/4"
 Max. (Short Stroke) Rd.....8"
 Square.....8"
 Blade Length.....17"
 Speed (Strokes per min.).....65
 Motor.....H.P. 1/2
RPM 1800
 Shipping Wt. Crated (lbs.).....450
\$450.00

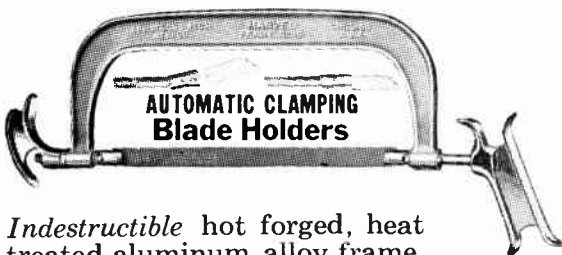
MARVEL High-Speed-Edge Hack Saw Blades



The original unbreakable welded-edge hack saw blade. Sizes listed below for No. 2 Hack Saw machine and Hand Frame.

MARVEL Stock No.	Length Inches	Teeth Per Inch	1 to 10 Boxes Per Blade
1710L	17	10	\$2.74
1714L	17	14	2.74
1214N	12	14	1.30
1218N	12	18	1.30

MARVEL Heavy Duty Hand Hack Saw Frame



Indestructible hot forged, heat treated aluminum alloy frame. Machine type clamping blade holders.

Blade Length	Depth of Throat	Each
12"	4 1/2"	\$17.70

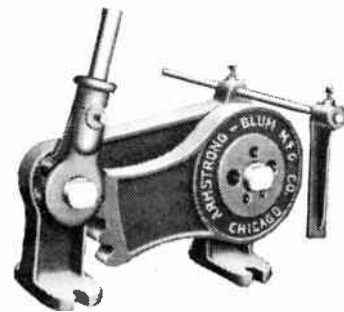
MARVEL "Exemplar" High Speed Steel Hack Saw Blades



High Speed Steel Hack Saw Blades Will never shatter or explode. Stronger, stiffer and tougher hand blade.

MARVEL Stock No.	Length Inches	Teeth Per Inch	Less Than 100 Blades Each
1214	12	14	\$.78
1218	12	18	.78
1224	12	24	.78
1232	12	32	.78

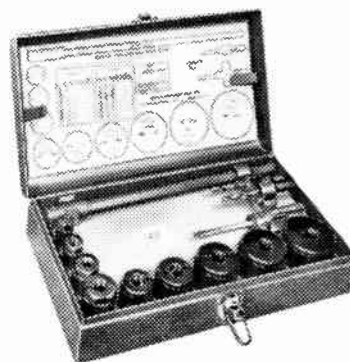
MARVEL Rod Cutters



Just a single stroke of the lever will cut steel rods from 1/8" to 7/8" diameter. Blades are high grade heat treated tool steel and are exceptionally long lived, but can easily be replaced when worn out.

Model	Will cut Rd. Rods (Dia.)					Each
No. 5	3/8	5/16	1/4	3/16	1/8	\$28.00
No. 6	5/8	9/16	1/2	7/16	3/8	47.00
No. 7	7/8	3/4	5/8	1/2	3/8	78.00

MARVEL Hole Saw Kit No. 1



Contains most popular sizes of MARVEL High-Speed-Edge Hole Saws and Arbors.

Kit includes: Hole Saws Nos. 12, 14, 18, 22, 24, 28, 32, 36, 40, No. 1 and No. 2 Arbors, No. 7 Extension & Screwdriver.
\$46.90

ARMSTRONG-BLUM SAWS

MARVEL High-Speed-Edge Hole Saws



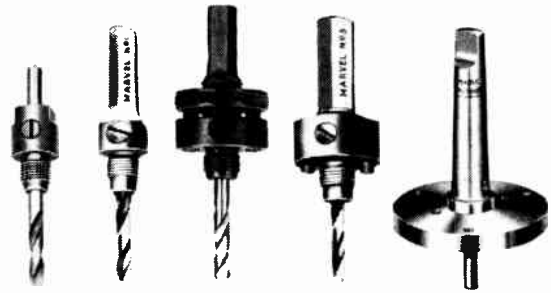
Hole Saw

Hole Saw Attached to No. 2 "Quick Change" Arbor

Will never break or burn out. High Speed Steel cutting edge welded to tough non-brittle alloy steel body. Will cut materials as thick as 1 1/8".

Stock No.	Saw Diam. (Inches)	Use Arbor No.	1 to 9 Each
9	9/16	0 or 1	\$ 3.75
10	5/8	0 or 1	2.81
11	11/16	0 or 1	2.81
12	3/4	0 or 1	2.81
13	13/16	0 or 1	2.81
14	7/8	0 or 1	2.81
15	15/16	0 or 1	2.81
16	1	0 or 1	3.00
17	1 1/16	0 or 1	3.00
18	1 1/8	0 or 1	3.00
19	1 1/4	0 or 1	3.00
20	1 1/4	2 or 3	3.00
21	1 5/16	2 or 3	3.00
22	1 3/8	2 or 3	3.19
23	1 7/16	2 or 3	3.19
24	1 1/2	2 or 3	3.19
25	1 9/16	2 or 3	3.19
26	1 5/8	2 or 3	3.19
27	1 11/16	2 or 3	3.19
28	1 3/4	2 or 3	3.94
29	1 13/16	2 or 3	3.94
30	1 7/8	2 or 3	3.94
32	2	2 or 3	3.94
33	2 1/16	2 or 3	4.88
34	2 1/8	2 or 3	4.88
36	2 1/4	2 or 3	4.88
37	2 5/16	2 or 3	4.88
38	2 3/8	2 or 3	4.88
40	2 1/2	2 or 3	5.25
41	2 9/16	2 or 3	5.25
42	2 5/8	2 or 3	5.25
44	2 3/4	2 or 3	5.25
46	2 7/8	2 or 3	5.25
48	3	2, 3 or 336	5.44
50	3 1/8	2, 3 or 336	5.44
52	3 1/4	2, 3 or 336	5.44
54	3 3/8	2, 3 or 336	5.44
56	3 1/2	2, 3 or 336	5.44
58	3 5/8	2, 3 or 336	6.38
60	3 3/4	2, 3 or 336	7.50
62	3 7/8	2, 3 or 336	7.88
64	4	2, 3 or 336	8.25
66	4 1/8	2, 3 or 336	9.00
68	4 1/4	2, 3 or 336	11.70
70	4 3/8	2, 3 or 336	13.95
72	4 1/2	2, 3 or 336	16.20
76	4 3/4	2, 3 or 336	18.00
80	5	2, 3 or 336	19.95
88	5 1/2	2, 3 or 336	23.85
96	6	2, 3 or 336	27.90

MARVEL Hole Saw Arbors and Adapters



No. 0 Arbor No. 1 Arbor No. 2 "Quick Change" Arbor No. 3 Arbor No. 336 Arbor

New No. 2 "Quick Change" Arbor permits changing hole saws in just seconds. Arbors are heat treated and practically indestructible. Hexagon shanks will not slip in chucks. All Arbors except No. 336 are fitted with special 1/4" high speed steel pilot drill.

Stock No.	Shank	Fits Hole Saws Inch Diam.	1 to 9 Pieces Each
0	1/4" Rd.	5/16 to 1 1/16	\$ 2.55
1	7/16" Hex.	5/16 to 1 1/16	3.60
2	7/16" Hex.	1 1/4 to 6	5.70
3	5/8" Hex	1 1/4 to 6	5.70
336	#3 Taper	3 to 6	16.50



12" Arbor Extension

No. 212 Morse Taper Arbor Adapter

Nos. 312 and 330 Morse Taper Arbor Adapter

Morse Taper Arbor Adapters are available for converting hex shank arbors to Morse Taper Shank.

No. 7 Extension 12" long Each \$3.60

Stock No.	Morse Taper No.	Fits Arbors No.	1 to 9 Pieces Each
212	2	1 and 2	\$3.75
312	3	1 and 2	7.35
330	3	3	7.50

ENERPAC®

TOOLS FOR ELECTRICAL CONSTRUCTION

Combination, One-Shot and Sweep Benders are now available in Eject-O-Matic® or Regular Models

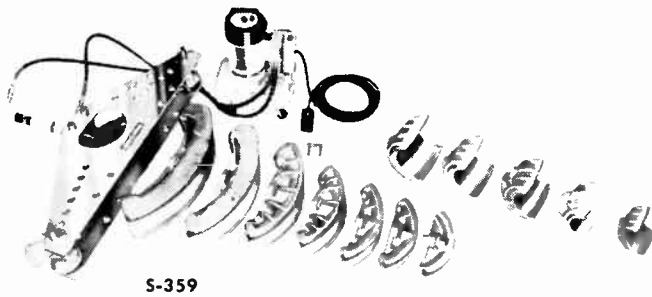
ENERPAC Eject-O-Matic® Bending

This is the Exclusive Enerpac concept that lets you eject the pipe hydraulically, as quickly and easily as you bend it. This unique two-hose bending feature eliminates the time and trouble of hammer-out pipe removal.

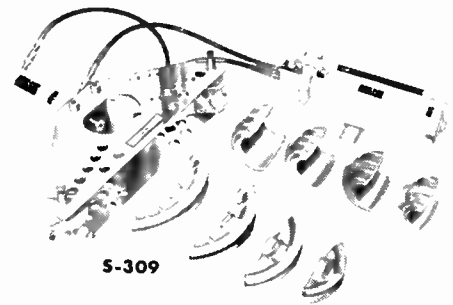
Other exclusive ENERPAC features:

- Faster bending
- Fewer parts to lose
- Choice of Hi-Speed Hand or Electric Pump operation
- Easy correction of Overbends
- Optic Angle Gage
- All-aluminum frames and shoes
- Push-button Pivot pins

COMBINATION ONE-SHOT/SWEEP BENDERS — 1" THROUGH 5"



S-359



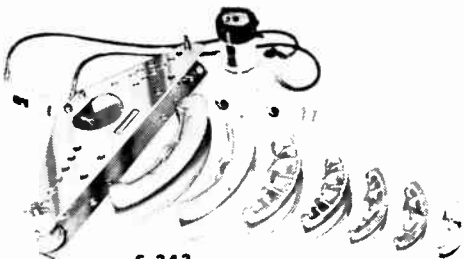
S-309

No.	Description	Each
S-351	Eject-O-Matic set. Bends 1¼"-4" one-shot plus 5" sweep. With High Speed P-84 Hand Pump	\$1,100.00
S-353	Eject-O-Matic set. Bends 1¼"-4" one-shot plus 5" sweep. With PE-641 electric pump for remote pushbutton control	\$1,440.00
S-359	Eject-O-Matic set. Bends 1¼"-4" one-shot plus 2½", 3", 3½", 4", 5" sweeps. With PE-641 electric pump for remote pushbutton control	\$1,769.00

No.	Description	Each
S-337	Eject-O-Matic set. Bends 1¼"-3" one-shot, 3½"-4" sweep. With PM-641 elec. pump	\$1,157.00
S-347	Eject-O-Matic set. Bends 1¼"-4" one-shot, 3½"-4" sweep. With PM-641 elec. pump	\$1,517.00
S-349	Same as S-347, but with PE-641 elec. pump for remote pushbutton control	\$1,703.00

No.	Description	Each
S-308	Regular set. Bends 1"-2" one-shot, 2½"-4" sweep. With P-39 hand pump	\$491.00
S-309	Eject-O-Matic set. Bends 1"-2" one-shot, 2½"-4" sweep. With P-84 hand pump	\$598.00
S-327	Eject-O-Matic set. Bends 1¼"-3" one-shot, 3½"-4" sweep. With P-84 hand pump	\$800.00

ONE-SHOT BENDERS — ½" THROUGH 4"



S-343



S-333B



No.	Description	Each
S-320	Regular set. Bends ½"-2" With PM-621 electric pump	\$685.00
S-321	Eject-O-Matic set. Bends 1"-2". PM-641 electric pump	\$769.00
S-335	Eject-O-Matic set. Bends 1¼"-3". With PM-641 electric pump	\$1,032.00
S-343	Eject-O-Matic set. Bends 1¼"-4". With PM-641 electric pump	\$1,386.00

No.	Description	Each
S-316	Regular set. Bends ½"-2". With P-39 hand pump	\$281.00
S-317	Eject-O-Matic set. Bends 1"-2". With P-84 hand pump	\$365.00
S-333B	Eject-O-Matic set. Bends 1¼"-3". With P-464 Hi-Speed hand pump	\$805.00
S-339	Eject-O-Matic set. Bends 1¼"-4". With P-84 hand pump	\$1,052.00

No.	Description	Each
S-300	Regular set. Bends 1"-2". With compact P-39 hand pump	\$250.00
S-306	Regular set. Bends 1¼"-4". With compact P-39 hand pump	\$475.00

ENERPAC®

TOOLS FOR ELECTRICAL CONSTRUCTION



NEW POWERED CABLE PULLING STATION

Eliminates jury-rigging methods in pulling cable since it sits on the floor and pulls from the floor. All-directional extension arms telescope the puller to the work for fast, easy, safe control in all pulling jobs through 5,000 lb. pulls.

CP-400 \$900.00

Lighter duty economy puller consisting of same rugged tripod frame for easily installing your existing powerhead on the base frame. Portable power threading units may also be adapted. CP-402 powerhead may be adapted to base frame.

CP-401 \$650.00

TWIN PULLING SYSTEM

OPTIONAL ACCESSORY SNATCH BLOCKS

Z-1410 5" Size \$28.00

Z-1411 9" Size \$39.00

Z-1412 14" Size \$69.00



NEW VACUUM

"ZIP-FLO" SYSTEM faster, easier and more efficient way to fish lines for conduit or EMT in sizes 1/2" through 6".

VA-100 \$265.00

Same contents as Model VA-100 but equipped with a VA-103 mobile power unit which features a stainless steel tank for resistance to acids and extreme corrosive exposure.

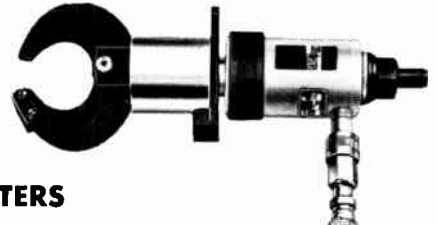
VA-101 \$301.00

ENERPAC HI-HOIST®



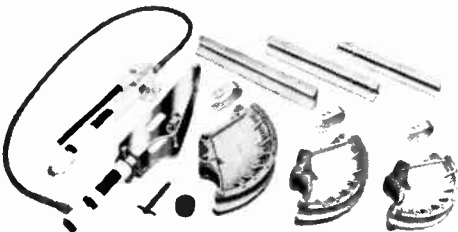
HH-113. Portable mechanical "elevator." Rolls easily anywhere in the plant. Raises 100 lbs. of material to a height of 13 ft. Simple crank action lifts load and holds it into place. Tubular, telescopic stand easily dismantles for portability. Each \$165.20

CABLE CUTTERS



CS-100. Enerpac Cable Cutter Attachment. Converts hydraulic knockout set into cable cutter. Will cut up to 1,000,000 C.M. cable and high voltage cable up to 2" outside diameter. Aluminum and copper cable only. With case. Does not contain hydraulics. Each \$88.60

HS-100. Complete Enerpac hydraulic Cable Cutter Set. Includes CS-100 cutter attachment, SB-70 pump and ram set, Z-1221 pull rod, Z-1223 nut, and Z-1337 metal box. Each \$219.00



S-34

S-34 THINWALL BENDERS

Designed for E.M.T. Conduit, sizes 1 1/4" through 2". With lightweight aluminum bending shoes and supports.

No.	Description	Each
S-34	Regular set. Bends 1 1/4"-2". With P-39 hand pump.....	\$370.00



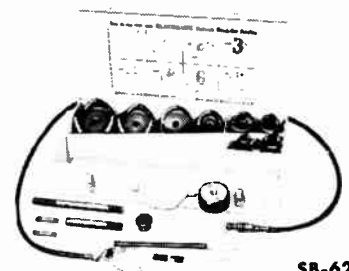
Bends 2" Thinwall!

BT-200

"MILWAUKEE BENDERS"

New mechanical ratchet-type benders for 2" E.M.T. and other sizes.

No.	Description	Each
BT-200	Bends 2" thinwall.....	\$235.00
BR-300	Bends 1/2"-2" thinwall, 1/2"-1 1/2" rigid, 2" alum....	\$595.00



SB-62

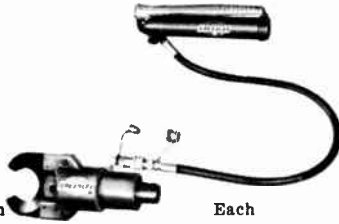
KNOCKOUT PUNCH SETS

No.	Description	Each
SB-62	Master set (10 sizes). Punches holes 1/2"-4". With P-14 hand pump.....	\$296.00
SB-61	Basic set (6 sizes), 1/2"-2". With P-14 hand pump.....	\$161.00

GREENLEE BENDERS, KNOCKOUT PUNCHES, CABLE PULLING EQUIPMENT

CABLE CUTTER

Cuts up 1000 MCM standard copper or aluminum power cable. 11-ton ram power. Jaws cannot overtravel and lock. Operates with hand or power pump.



Cat. No.	Description	Each
750-H-767	Hydraulic Cable Cutter — hand pump	\$158.00
750-E-915	Hydraulic Cable Cutter — power pump	446.00

Convert your Greenlee No. 7646 Hydraulic Knockout Driver to a cable cutter.

751	Cutter Head unit	58.00
1-7543	3/4" Piston Shaft	3.00

KNOCKOUT PUNCHES

Punches holes in metal up to 10 gauge.



Cat. No.	For Conduit Size	Each	Cat. No.	For Conduit Size	Each
735 Set	1/2, 3/4, 1, 1 1/4"	\$11.40	741	3 1/2"	\$42.50
737 Set	1 1/2", 2"	12.30	742	4"	52.00
738	2 1/2"	16.00	743	5"	78.50
739	3"	21.60			

KNOCKOUT PUNCH DRIVER

Driver develops 11 tons of ram force. For use with all Greenlee Knockout Punches 1/2-5".



Cat. No.	Description	Each
7646	Hand Pump, hose, ram in metal box, no punches	\$110.00
7306	Hand Pump, hose, ram 6 punches 1/2-2" in metal box	134.00
7310	Hand Pump, hose, ram 10 punches 1/2-4" in metal box	244.00
7304	Four Knockout Punches 2 1/2-4" in metal box	110.00

SPECIAL PURPOSE PUNCHES

Cat. No.	Description	Each
734	1 1/8 x 1 3/8" Double "D" Punch for electrical receptacles	\$27.00
730-T	3 1/8" Round Panel Punch for reset timers	28.00
730-S	1 3/4" Metal Punches for oiltight control units	5.50
731-M	2" Square Punch for Micro-Switch® manual control units. Must be used with a Greenlee No. 7646 Hydraulic Punch Driver	65.00



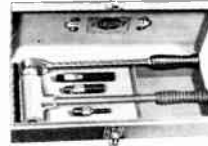
ONE-SHOT KNOCKOUT PUNCH DRIVERS

Eliminate predrillings and set-up punching. 8" throat. Made of high-strength aluminum and steel. Operate with Greenlee hand or power pump.

Cat. No.	Description	Each
1731	Driver with dies and punches 1/2, 3/4, 1" in metal box. Without pump	\$102.00
1732	Driver without punches and pump. For punching holes 1/2-4"	196.00
1731-G2	No. 767 Hand Pump for use with No. 1731 Knockout Punch Driver	45.50
7132-G1	No. 755 Hand Pump for use with No. 1732 Knockout Punch Driver	84.00

RATCHET KNOCKOUT PUNCH DRIVER

Ten times faster than wrench operation. For use with Greenlee Knockout Punches 1/2-3".



Cat. No.	Description	Each
1804	Driver without punches in metal box.	\$57.00
1806	Driver with knockout punches 1/2-2" in metal box	81.00

HAND AND POWER PUMPS



POWER PUMPS

Cat. No.	Description	Each
940SA-PS	1-hp Hydraulic Power Pump for use with Greenlee benders and other hydraulic tools having spring return. 115/230 v, a-c motor	\$430.00
960SA-PS	1 1/2-hp Hydraulic Power Pump for use with Greenlee benders and other hydraulic tools having spring return. 115/230 v, a-c motor	480.00
915 PS	Compact Hydraulic Power Pump for use with Greenlee one-shot knockout drivers and benders (except Nos. 884 and 885). 115 v, a-c/d-c motor. Weighs only 22 lbs.	320.00

HAND PUMPS

767	Hand Pump for use with Greenlee knockout punch driver and other tools in its power range	35.00
755	Hand Pump for use with Greenlee one-shot knockout drivers and benders (except Nos. 884 and 885)	65.00
1726	Hand Pump for use with Nos. 884 and 885 benders.	102.00

TOOLBOXES

All-welded, 16-gauge steel construction, fully weathertight with heavy-duty tamperproof hardware. Large steel carrying handles. Rubber-tired casters optional at extra cost.



Cat. No.	Description	Each
663	Toolbox 36 x 32 x 60"	\$190.00
664	Toolbox 26 x 26 x 72"	151.00
665	Toolbox 24 x 24 x 48"	88.50
667	Toolbox 14 x 18 x 31"	42.25
666	Rubber-Tired Caster Set	29.00

UTILITY CABINET

Cabinet has four shelves, 50 cu. ft. of storage space, heavy-gauge metal sides, tamperproof hardware. Rubber-tired casters provide easy portability.

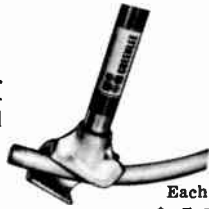


Cat. No.	Description	Each
669	Utility Cabinet	\$252.00

GREENLEE BENDERS, KNOCKOUT PUNCHES, CABLE PULLING EQUIPMENT

CONDUIT HICKEYS

Safe, one-piece construction. Heavy-duty handle permanently welded to cast steel head.



Cat. No.	Description	Each
508	1/2" Rigid Hickey	\$ 5.85
512	3/4" Rigid Hickey	6.95
516	1" Rigid Hickey	12.20



FISH TAPE SYSTEM

Complete system handles conduit, pipe, and E.M.T. conduit 1/2-4"; 5 and 6" optional. Blows line or pulls it with vacuum, cleans conduit of debris. One-man operation. Weighs only 40 lbs. All components stored in vacuum tank. Uses inexpensive throwaway nylon line. Powerful, yet safe.

Cat. No.	Description	Each
690	Fish Tape System for 1/2-4" conduit..	\$273.00
618	Piston for 5" conduit	6.40
619	Piston for 6" conduit	11.80



CABLE AND WIRE PULLING SYSTEMS FOR EXPOSED CONDUIT

The Greenlee No. 670 Power Puller Package for pulling from exposed conduit consists of the following items:

- No. 640 Cable Puller — weighs only 60 lbs. Heavy-duty electric motor. Two speeds: 15 and 30 ft. per min.
- No. 649 Pipe Adapter Sheave allows you to pull cable beyond the end of conduit for "make up."
- No. 680 Polypropylene Rope 3/4" dia., 300 ft. lengths, nonconductor.
- No. 644 Rope Reel Stand
- No. 665 All-Welded Steel Box — 24 x 24 x 48", weathertight.

FOR CONCEALED CONDUIT AND EXPOSED CONDUIT

The Greenlee No. 686 Complete Power Puller Package for pulling from exposed or concealed conduit consists of all items listed above plus the No. 682 Extension Boom Kit and Flexible Adapters 2-4".

Cat. No.	Description	Each
670	Power Puller Package (for exposed conduit)	\$776.00
686	Power Puller Package (for exposed and concealed conduit)	910.00
682	Extension Boom Kit	137.00
640	Power Puller	497.50
649	Pipe Adapter Sheave	127.00
680	3/4" Polypropylene Rope, 300 ft.	75.00
644	Rope Reel Stand	15.50
665	Toolbox 24 x 24 x 48"	88.50



LIGHTWEIGHT WIRE PULLER

This portable ratchet-action puller weighs only 29 lbs. Has 1500 lb. pulling capacity.

Cat. No.	Description	Each
766	Wire Puller	\$85.00



WIRE AND CABLE GRIPS

Simple positive pulling grips lock on all sizes of conductors up to 1000 MCM. Use only 4" of costly conductors.

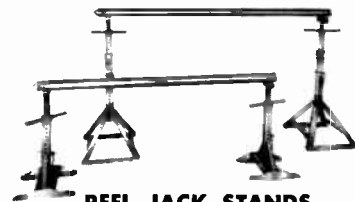
Cat. No.	Description	Each
677	Wire and Cable Grip Set. Consists of Nos. 674, 675, and 676 Cable Grips, No. 678 Rope Clevis, screws, and wrenches. Packed in metal box..	\$78.00
674	Wire Grips for 2 and 2 1/2" conduit	18.50
675	Wire Grips for 3 and 3 1/2" conduit	23.00
676	Wire Grips for 4 and 5" conduit	29.25
678	Rope Clevis for connecting pulling rope to wire grip 8000-lb. capacity..	10.00



SHEAVES

All-welded steel frame. High-strength aluminum alloy sheave. Cast steel hook.

Cat. No.	Description	Each
650	6" Hook-Type Cable Sheave	\$21.60
651	12" Hook-Type Cable Sheave	35.00
652	18" Hook-Type Cable Sheave	74.00
653	24" Hook-Type Cable Sheave	85.00
648	Manhole Sheave, 8 ft.	170.00
671	Manhole Sheave, 10 ft.	275.00
672	Manhole Sheave, 12 ft.	320.00

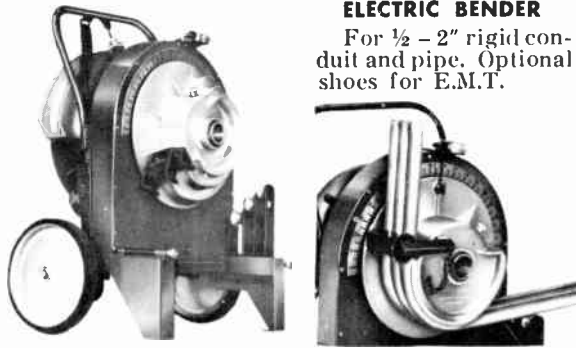


REEL JACK STANDS

Reels are raised by heavy-duty acme thread lift screws. Telescoping reel stands are adjustable for height. One-man operation. Reels cannot creep on spindle.

Cat. No.	Description	Each
683	Screw-Type Telescoping Reel Stand. Capacity per reel stand 2500 lb. For 48 to 96" dia. reels (2 req.)	\$76.00
684	76" Reel Stand Spindle, 2 1/2" dia.	45.50
687	Screw-Type Telescoping Reel Stand. Capacity per reel stand 2500 lb. For 28 to 56" dia. reels (2 req.)	51.00
647	62" Reel Stand Spindle	35.00

GREENLEE BENDERS, KNOCKOUT PUNCHES, CABLE PULLING EQUIPMENT



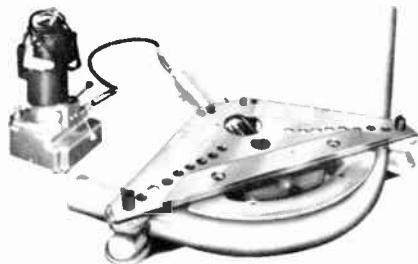
ELECTRIC BENDER

For 1/2 - 2" rigid conduit and pipe. Optional shoes for E.M.T.

Bends 1/2-2" conduit up to 180° in one shot. Makes 90° bends in 2" galvanized conduit in 20 seconds—loads in less than 10 seconds. Two shoes handle six sizes of rigid steel or aluminum conduit.

Optional "shotgun" shoes bend four sticks of 1/2 and 3/4"; three sticks of 1" rigid conduit and pipe in 20 seconds . . . 100 or more elbows per hour. Fully portable.

Cat. No.	Description	Each
555	Electric Bender for 1/2-2" rigid conduit and pipe complete	\$990.00
501 7977.2	Optional Shoe for 1/2 - 1 1/4" thin-wall (E.M.T.)	112.00
501 7986.1	Support Roller required	20.00
501 7988.8	1/2" Shotgun Shoe for bending four pieces of 1/2" rigid conduit or pipe—3" radius	116.00
501 7994.2	1/2" Support Roller required	23.00
501 7989.6	3/4" Shotgun Shoe for bending four pieces of 1/2" rigid conduit or pipe—4" radius	116.00
501 7995.0	3/4" Support Roller required	23.00
501 7975.6	1" Shotgun Shoe for bending three pieces of 1" rigid conduit or pipe—5 3/4" radius	116.00
501 7985.3	1" Support Roller required	23.00



LIGHTWEIGHT HYDRAULIC BENDERS

Bend aluminum or steel conduit and pipe. Easily carried, set up, and operated by one man. Operate with hand or power pumps. Attachments available for bending thin-wall conduit (E.M.T.) and bus bar.

90° ONE-SHOT BENDERS

Cat. No.	Description	Each
880-H-755	1/2-2" Bender with hand pump	\$285.00
880-H-915	1/2-2" Bender with power pump	540.00
883-H-755	1 1/4-3" Bender with hand pump	625.00
883-E-940	1 1/4-3" Bender with power pump	990.00
883-G4	Conversion Kit for No. 883 Bender to segment bend 3 1/2 and 4" conduit	320.00
884-E-960	1 1/4-4" Bender with power pump	1,363.00
884-H-1726	1 1/4-4" Bender with hand pump	985.00
884-G5	Conversion Kit for No. 884 Bender to segment bend 5" conduit	195.00

COMBINATION ONE-SHOT AND SEGMENT BENDERS

Cat. No.	Description	Each
777-HC-755	1 1/4-2" One-Shot and Segment 2 1/2-4" Bender with hand pump	\$500.00
777-HC-915	1 1/4-2" One-Shot and Segment 2 1/2-4" Bender with power pump	755.00
883-4H-755	1 1/4-3" One-Shot and Segment 3 1/2 and 4" Bender with hand pump	710.00
883-4E-940	1 1/4-3" One-Shot and Segment 3 1/2 and 4" Bender with power pump	965.00
885-E-960	1 1/4-4" One-Shot and Segment 5" Bender with power pump	1,433.00
885-H-1726	1 1/4-4" One-Shot and Segment 5" Bender with hand pump	1,055.00



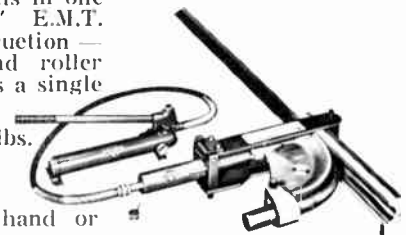
ATTACHMENTS FOR 777, 880, AND 883 BENDERS

Cat. No.	Description	Each
EMT-G1	1 1/4-2" E.M.T. Attachments for Nos. 880 and 883 Benders—90° radius shoes	\$258.00
EMT-G2	1 1/4-2" E.M.T. Attachments for No. 777 Bender—90° radius shoes	263.00
BB-G1	3/4 x 4" Bus Bar Attachment for Nos. 880 and 883 Benders	88.00

THIN-WALL CONDUIT BENDERS

Make 90° bends in one shot in 1 1/4-2" E.M.T. One-piece construction—frame, ram, and roller are assembled as a single unit.

Weigh only 29 lbs.

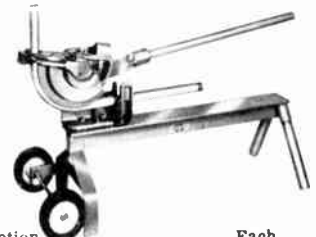


Operate with hand or power pump.

Cat. No.	Description	Each
882-H-755	1 1/4-2" E.M.T. Bender—hand pump	\$395.00
882-E-915	1 1/4-2" E.M.T. Bender—power pump	650.00

RATCHET BENDERS

Make up to 90° bends in 1/2-1 1/2" conduit or pipe. Ratchet action permits short power strokes. Equipped with two rubber-tired wheels.



Cat. No.	Description	Each
1800	1/2, 3/4, and 1" Ratchet Bender	\$140.00
1801	1 1/4 and 1 1/2" Ratchet Bender	177.00

"LITTLE KICKER" BENDERS

Make accurate offsets for exposed installations in 1/2 and 3/4" E.M.T. Eliminate costly offset connectors.



Cat. No.	Description	Each
1810	1/2" E.M.T. Little Kicker	\$18.85
1811	3/4" E.M.T. Little Kicker	28.50

GREENLEE BENDERS, KNOCKOUT PUNCHES, CABLE PULLING EQUIPMENT



CONDUIT AND PIPE RACK

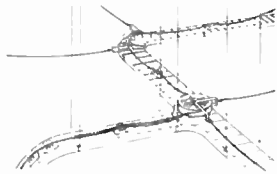
Tree-type pipe and conduit holder folds down for easy storage. Holds up to 1000 lbs. of conduit and pipe. Rubber-tired casters provide easy portability.

Cat. No.	Description	Each
668	Pipe and Conduit Rack	\$174.00

TRAY-TYPE CABLE HANDLING SYSTEM

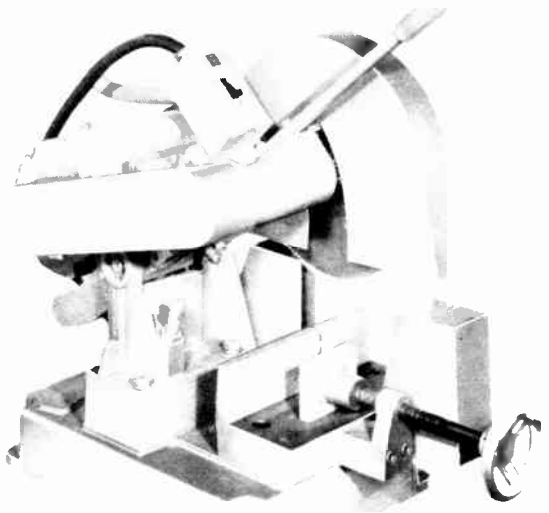
System eliminates danger of overstressing trays or pulling out hangers. Protects sheathing and prevents damage to insulation.

All-welded steel frame with 4, 6, or 8 high-strength aluminum alloy sheaves depending on radius of conveyor.



Cat. No.	Description	Each
636	16" radius Right-Angle Conveyor Sheave	\$ 87.50
637	24" radius Right-Angle Conveyor Sheave	134.00
638	36" radius Right-Angle Conveyor Sheave	175.00
639	9 3/4" radius Right-Angle Twin-Yoke Sheave	93.00
658	4 1/4 x 6" Tray-Type Sheave	18.50

TOLEDO-BEAVER TOOLS
Nos. 100 & 110 CHOP SAWS



No. 100 — 1 H.P., 115/230 V., 60 Cycle, heavy duty motor.

No. 110 — 2 H.P., 230 V., 60 Cycle, heavy duty motor.

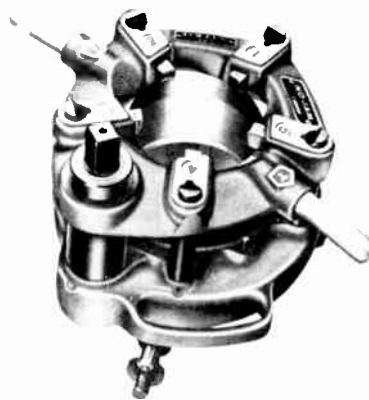
Capacity 4" DWV Tubing (3" without turning). Quick acting, integral 4" vise. Precision ball bearing spindle. Ball bearing trunnion shaft. Completely wired. Weight 116 lbs., size 28" high, 16 1/2" wide, 32" long.

Cuts copper and aluminum tubing, DWV tubing, aluminum extrusions with steel wheel and steel shapes and small solids with abrasive wheel. All controls within easy reach.

Cat. No.	Description	Each
100	Chop Saw less Cutting Wheel.....	\$267.25
110	Chop Saw less Cutting Wheel.....	283.00
245	11" x 1 1/8" Abrasive Wheels—per 10....	26.00
T332	11" x 1 1/8" Abrasive Wheels—per 10....	26.00
R91	11" x 1 1/8" Abrasive Wheels—per 10....	22.60

TOLEDO PIPE TOOLS

No. 2BJ NO JAM THREADER



Jam-proof—the feed automatically kicks out at completion of thread. Separate dies for each size assure accuracy and long die life. Convenient, easy to set work holder makes centering a breeze. Fully enclosed gears. Pinion is straddle-mounted. Four set of dies furnished, sizes 2 1/2", 3", 3 1/2" and 4" . . . and set-screw wrench. Ratchet handle is \$13.65 extra.

Model No.	Description	Each
2BJ	For Conduit, with 2 1/2" to 4" Dies.....	\$176.40
Extra,	Set of 2 1/2" R.H. Conduit Dies.....	13.80
Extra,	Set of 3" R.H. Conduit Dies.....	13.80
Extra,	Set of 3 1/2" R.H. Conduit Dies.....	13.80
Extra,	Set of 4" R.H. Conduit Dies.....	13.80

PIPE VISE STANDS

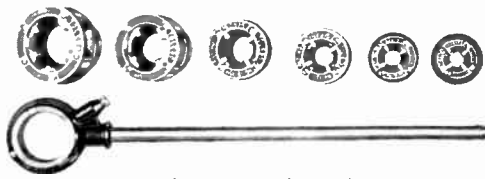


Light weight, easily carried, easily set-up or taken down. Folding steel tray locks legs. No. 7C with Chain Vise; No. 7Y with Yoke Vise. Can be converted from chain to yoke or from yoke to chain easily. Compound leverage applied to chain. Minimum turns on screw.

Model No.	Description	Each
7-C	Vise Stand with Chain Yoke Vise.....	\$52.40
7-Y	Vise Stand with Yoke Vise	51.80
	Conversion Kit 7-C to 7-Y.....	14.00
	Conversion Kit 7-Y to 7-C.....	13.15

TOLEDO PIPE TOOLS

No. 12 RATCHET THREADING DEVICE



Capacity—1/2 to 2-inch Pipe

This ratchet tool is light and compact and it reaches the difficult corner job. Threads pipe easily and produce perfect tapered threads. Die heads are changed instantly by pulling the ratchet pawl knob, dropping out one head and inserting desired size. Die segments can be removed when dull and be easily reground or replaced at small expense without having to order complete new die heads.

Can be furnished with special dies for threading 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2-inch electric conduit. Is an excellent tool for threading brass or copper.

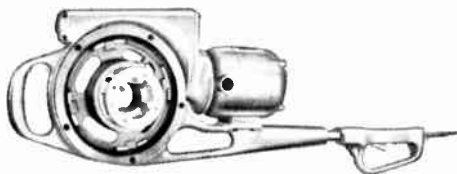
Complete tool consists of the ratchet handle, 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2-inch die heads with dies. 1/8, 1/4 and 3/8-inch sizes can be furnished.

Description	Sng. Wt. Lbs.	Each
No. 12, Complete 1/8 to 2 inches	25	\$100.80
No. 12, Complete 1/4 to 2 inches	31 1/2	92.05
No. 12, Complete 3/8 to 2 inches	29	83.30
No. 12, Complete 1/2 to 2 inches	26 1/4	74.55
No. 12, Complete 3/4 to 2 inches	23 3/4	62.05
No. 12, Complete 1 to 2 inches	21	55.75
Ratchet	6	6.95

1/8-inch Die Head with R.H. Dies	3	8.75
1/4-inch Die Head with R.H. Dies	3	8.75
3/8-inch Die Head with R.H. Dies	3	8.75
1/2-inch Die Head with R.H. Dies	3	9.40
3/4-inch Die Head with R.H. Dies	4	9.40

1 -inch Die Head with R.H. Dies	3	11.85
1 1/4-inch Die Head with R.H. Dies	3	11.85
1 1/2-inch Die Head with R.H. Dies	4	11.85
2 -inch Die Head with R.H. Dies	4	13.25

No. 68 POWER DRIVE

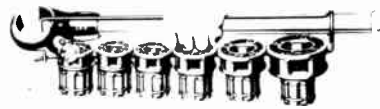


This unit operates most standard die stocks with special adaptors that can be supplied. Ample power to operate even geared threaders. Weighs only 33 pounds. Easily carried to the job anywhere.

No. 68 Power Drive With 115 Volt Electric Motor	each	\$242.00
No. 68 Power Drive With Air Motor, each		760.75

RIDGID PIPE TOOLS

DROP-HEAD RATCHET THREADERS



OO-R, 111-R & 12-R Exposed Ratchet

Unusually handy, efficient drop-head dies. Head locks in or releases by pull of ratchet knob. Separate sets of alloy steel chaser dies, quickly removed or reversed for close-to-wall threads. Convenient carrier free with complete sets except 12-R. Unless otherwise specified NPT dies are furnished. NPSM straight dies are available.

No. 00-R Capacity Inches	Weight Lbs.	Each	No. 12-R Capacity Inches	Weight Lbs.	Each
1/8 thru 1	13 3/4	\$46.00	1/8 thru 2	45 1/2	\$101.20
1/8 thru 3/4	11 1/4	39.20	1/4 thru 2	42 1/4	92.45
1/4 thru 1	12 1/2	39.20	3/8 thru 2	38 3/4	83.70
1/4 thru 3/4	10	32.40	1/2 thru 2	34 3/4	74.90
3/8 thru 1	11 1/4	32.40	3/4 thru 2	30 3/4	65.45
3/8 thru 3/4	9	25.60	1 thru 2	27	56.05
1/2 thru 1	10	25.60	1/2 thru 1 1/4	23 3/4	49.70
1/2 thru 3/4	7 1/2	18.85			

No. 111-R Capacity Inches	Weight Lbs.	Each	PIPE DIES ONLY	Per Set
1/8 thru 1 1/4	21 3/4	\$61.85	1/8", 1/4", 3/8", 1/2" and 3/4"	\$ 5.05
1/8 thru 1	18 3/4	53.40	1" and 1 1/4"	6.00
1/4 thru 1 1/4	19 3/4	54.15	For No. 12-R only	
1/4 thru 1	16 3/4	45.70	1 1/2" and 2"	6.65
3/8 thru 1 1/4	18	46.40		
3/8 thru 1	15	37.95		
1/2 thru 1 1/4	16	38.70		
1/2 thru 1	13	30.25		

DROP-HEAD RATCHET THREADERS



Nos. O-R and 11-R Enclosed Ratchet

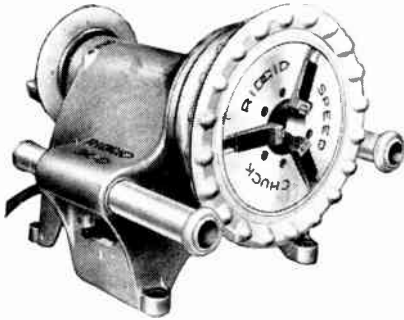
Enclosed ratchet gives these threaders extra-smooth and easy action. Arrow on knob indicates direction of reversible ratchet. Die heads push out easily for fast changing, snap in from either side, can't fall out. Wire carrier free with all sets. Dies reverse for close-to-wall threading. Unless otherwise specified, tapered NPT dies are furnished. NPSM straight dies are available.

No. 0-R Capacity Inches	Weight Lbs.	Each	No. 11-R Capacity Inches	Weight Lbs.	Each
1/8 thru 1	13 1/2	\$49.10	1/8 thru 1 1/4	20	\$ 65.85
1/8 thru 3/4	11	41.50	1/8 thru 1	17	57.65
1/4 thru 1	12 1/2	42.15	1/4 thru 1 1/4	18 3/4	57.65
1/4 thru 3/4	10 1/4	34.55	1/4 thru 1	16	49.50
3/8 thru 1	11 1/2	35.30	3/8 thru 1 1/4	17 1/4	49.50
3/8 thru 3/4	9 1/4	27.65	3/8 thru 1	14 1/2	41.35
1/2 thru 1	10 1/2	28.40	1/2 thru 1 1/4	16	41.35
1/2 thru 3/4	8	20.80	1/2 thru 1	13	33.20

1/8", 1/4" and 3/8" Chaser Dies,	Per Set.....	\$5.05
1/2" and 3/4" Chaser Dies,	Per Set.....	5.05
1" Chaser Dies,	Per Set.....	6.00
1 1/4" Chaser Dies, for No. 11-R only,	Per Set	6.00

RIDGID PIPE TOOLS

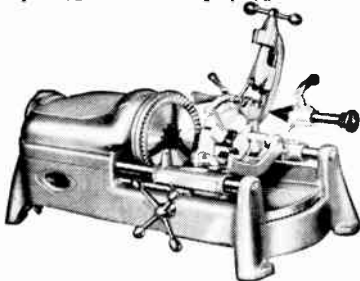
No. 300 POWER DRIVE



Lightweight—heavy-duty. Capacity: 1/8" to 2" pipe and conduit; 1/4" to 2" bolts and rod; 2 1/2" to 12" pipe with drive attachments and geared tools. Patented speed chuck. 3-jaw rear centering device turns with and supports pipe, assuring straight threads and cuts. Two adjustable heavy-duty tool support bars. Housing of one-piece, lightweight alloy aluminum casting. 1/2 H.P. Universal type motor, single-phase, 25-60 cycle AC or DC, 115 volt. Bump-proof reversible switch. Full 15-ft. oil-resistant power cord. Complete with one gallon Ridgid Thread Cutting Oil and three Allen Wrenches.

Cat. No.	Description	Shpg. Wt. Lbs.	Each
300	Power Drive	96	\$242.00
1206	Stand for No. 300	31	31.20

No. 535 PIPE AND BOLT THREADING MACHINE
Capacity: 1/8" to 2" Pipe; 1/4" to 2" Bolts



Ideal for bench or stand mounting, here's a truly complete pipe workshop, all in one compact unit. It threads, cuts and reams . . . even cuts close nipples when you use a No. 19 Nipple Chuck. Popular Speed Chuck sets and releases by hand . . . holds tight, forward or reverse. 3-jaw rear centering device centers even long lengths for true threads and cuts. Pipe can be chucked from front. All tools operate independently, swing up out of way when not in use. Lathe-type adjusting handle moves carriage accurately, smoothly. Easy-to-read length gauge gives fast, exact cut-offs. Oil reservoir contains reversible vane-type pump that recirculates and cleans thread cutting oil for big savings. 1/2 h.p. single phase 115 volt, AC or DC, 25-60 cycle Universal motor is reversible at switch. 230 volt motor available. Armature has extra large brushes and commutator for longer brush life. All RIDGID quick-opening Pipe and Bolt Machine Die Heads and Dies can be used.

Cat. No.	Description	Wt. Lbs.	Each
535	Machine with all standard equipment (cutter, reamer, 3 gals. RIDGID Thread Cutting Oil, 4 Allen type wrenches, 1 spare cutter wheel, and 1 tube of Gear Grease), but less all Die Heads and Dies	289	\$489.90
535	Machine with All Standard Equipment and 1 Universal Die Head with 2 sets of R. H. Pipe and Dies for 1/2" to 2" Pipe	303	\$546.75

THREE-WAY THREADERS



For small pipe and conduit. Convenient compact threaders, with handy reversal of chasers for close-to-wall threads. Alloy tool steel chasers easily removed for grinding.

Cat. No.	Description	Wt. Lbs.	Per Set
30-A	Threads 3/8, 1/2, 3/4-in. pipe	8 1/4	\$21.00
31-A	Threads 1/2, 3/4, 1-in. pipe	10	24.25

THREADERS FOR USE WITH POWER DRIVES



New quick-opening threader for power use — with one set of dies — fast, easy adjustment to size (also over and undersize) regardless of position of quick opening lever. No slow backing off or stopping power-drive. Quick-opening lever retracts dies instantly. No lead screws to jam.

For 1/2" and 3/4" Pipe Only

Cat. No.	Description	Wt. Lbs.	Each
502	With 1 Set Regular Dies	13	\$47.15
502	Dies Only	3/4	8.70
502	High Speed Dies	3/4	16.00

For 1" to 2" Pipe Only

504	With 1 Set Regular Dies	23 3/4	60.30
504	Dies Only	1 1/4	10.70
504	High Speed Dies	1 1/4	16.00

DIE HEADS FOR RIDGID THREADING MACHINES



Quick-opening No. 515 Die Heads—3 die heads with full-width dies, for 1/8" pipe, 1/4 and 3/8-inch pipe, and 1/2 and 3/4-inch pipe—each with one set of dies . . . each \$40.65

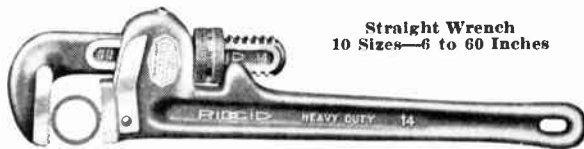
Quick-opening Monotype Die Heads — Separate die heads and dies for 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2-inch pipe . . . each \$40.65

Quick-opening Bolt Die Heads—2 die heads, one for 1/4 to 1-inch dies, one for 1 1/8 to 2-inch dies . . . each \$42.65

L.H. Dies and 8, 12 and 16 Pitch Dies available. 8, 12, and 16 Pitch Dies up to and including 2 1/2-inch can be furnished.

RIDGID PIPE TOOLS

STRAIGHT AND END PIPE WRENCHES



Straight Wrench
10 Sizes—6 to 60 Inches

End Wrench
8 Sizes—E6 to E36
Inches



Size, In.		Cap. In.	Wt. Lbs.		Each
Straight	End		Each	6 to Box	
6	E6	3/4	1/2	2 1/2	\$2.10
8	E8	1	3/4	5 1/4	2.40
10	E10	1 1/2	1 3/4	11	3.20
12	E12	2	2 3/4	17	3.75
14	E14	2	3 1/2	22 1/4	4.30
18	E18	2 1/2	5 3/4	35 3/4	6.10
24	E24	3	9 3/4	59 1/2	9.65
36	E36	5	19	.....	20.35
48	.....	6	34 1/4	.....	30.65
60	.....	8	51 1/4	.....	47.25

Pipe Wrench Parts

Size, In. Straight End	Handle Assembly	Hook Jaw	Heel & Pin	1 each			Nut
				Pin Coll & Flat Only	Spring		
6	E6	\$ 2.00	\$.80	\$.35	\$.05	\$.20	\$.15
8	E8	2.20	.85	.40	.05	.20	.15
10	E10	2.85	1.20	.70	.05	.20	.20
12	E12	3.20	1.35	.80	.05	.25	.25
14	E14	3.90	1.70	.80	.05	.35	.30
18	E18	5.50	2.35	.85	.05	.65	.45
24	E24	8.20	3.60	.90	.05	.70	.65
36	E36	15.45	5.90	1.15	.05	.75	1.15
48	.....	25.75	9.25	2.10	.05	.90	2.15
60	.....	34.40	18.90	4.45	.20	1.60	3.95

Pin only, for all sizes except 60". \$0.05; 60", \$0.20

HEAVY-DUTY PIPE CUTTERS



For fast clean pipe cutting. New long shank protects threads on cutter screw from wear on power drive support bar. Bigger handle for more leverage, easier cutting. Frames of special malleable iron, guaranteed not to break or warp. Equipped with special tough-blade cutter wheels. Every cutter factory-tested to insure perfect tracking.

Cat. No.	Capacity Inches	Wt., Lbs. Each	Each
1A	1/8—1 1/4	6 1/2	\$12.35
2A	1/8—2	7 1/4	16.50

TUBING CUTTERS (WITH ROLLS)



For copper, brass, aluminum tubing and thin wall conduit. Cuts quickly, no burr. Rolls smooth tube ready for soldering. No tubing distortion. Compact, light, strong, always tracks perfectly. Handy fold-in integral reamer. Wheel well protected from damage in tool kit. Heavy-duty wheel for steel and stainless steel tubing available.

Cat. No.	Capacity	Wt. Lbs.	Each
10	1/8 to 1-in. (O.D.)	7/8	\$3.55
15	3/8 to 1 1/4-in. (O.D.)	1 1/4	4.55
20	1/2 to 2 1/8-in. (O.D.)	1 3/4	8.20

Tubing Cutter Parts

Size	No. 10	No. 15	
Cutter Wheel, Std.	\$0.70	\$0.70	\$0.70
Cutter Wheel, H.D.	.80	.80	.80
Frame	2.00	2.80	4.60
Roll Housing	1.05	1.25	1.80
Roll, each	.35	.50	.75
Roll Pin	.25	.25	.25
Screw Handle	1.05	1.40	2.10

No. 65R PIPE THREADERS

Threads four sizes of pipe, 1, 1 1/4, 1 1/2 and 2-inch pipe, with one set of high-speed steel dies that stay in the threader. Furnished with either cam or plate type workholder, practically automatic; set to pipe size, tighten one screw on pipe; no bushings. Workholder takes 2-inch couplings for threading 2-inch close nipples.



Cat. No.	Complete with dies	Wt. Lbs.	Each
65 R-C	with Cam-type workholder	25	\$60.30
65 DR-C	same, with 2 handles	28	67.85
65 R-P	with Plate-type workholder	24	56.55
65 DR-P	same, with 2 handles	27	61.95

No. 65-R Series Dies	Per Set
Special Dies for Stainless Steel Pipe	\$7.50
	9.00

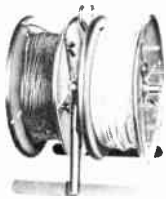
TRISTAND PORTABLE PIPE VISES

A portable work bench with built-in folding steel tray, easy to set up. Tray makes it extra rigid. Wide special malleable vise base for dope pot, oil can, slots for hanging tools, pipe rest, three pipe benders. Efficient vises with tool steel jaws hardened for firm grip and long wear.



Cat. No.	Vise Type	Capacity	Wt. Lbs.	Each
40A	Yoke	1/2" to 2 1/2"	48 1/2	\$52.10
450	Chain	1/8" to 5"	45 1/2	52.85

HYKON WIRE HANDLING EQUIPMENT
DOUBLE UNIT REELS



Full coils of wire easily loaded on in 30 seconds to pull free from kinks or snarls. Adjustable for various sizes of building wire, Romex, cable, etc. Turns easily, will not coast.

Cat. No.	Disc. Dia. In.	Shpg. Wt. Lbs.	Each
DU15	15	25	\$30.25
DU18	18	30	35.25

GANG REELS

These reels are indispensable when pulling any number of wires in conduit work on large construction jobs. Needs no watcher; prevent tangles and waste. Handles for carrying at both ends. Reels load and operate as above.



4 Unit Gang Reel			Reel Size In.	6 Unit Gang Reel		
Cat. No.	Shpg. Wt. Lbs.	Each		Cat. No.	Shpg. Wt. Lbs.	Each
4U15	46	\$55.50	15	6U15	72	\$79.75
4U18	58	66.00	18	6U18	90	96.00

EXTENSION CORD REEL

Provides both light and power up to 250 feet away. Ample capacity for power tools. Manual rewind, no springs. Cord won't twist, tangle, or break off. Continuous current collector, lead-in cord and connections for your choice in size and type of cord.



Cat. No.	Reel Size In.	Shpg. Wt. Lbs.	Each
15XC	15	20	\$39.50
18XC	18	22	42.25
9XC	9	8	24.25

HYKON REELIFT

Quick, easy, safe way to mount bulky, heavy cable reels. No jacks, no tugging or rolling. Slip axle into reel, then TILT UP for pulling cable. One man handles 1000 lb. reel easily; two men can put up a ton or more.



Cat. No.	Description	Wt. Lbs.	Each
RL25	For reels up to 36" dia. and 25" wide.	60	\$57.00
RL31	For reels up to 48" dia. and 31" wide.	85	66.00

HYKON WIRE MEASURING EQUIPMENT

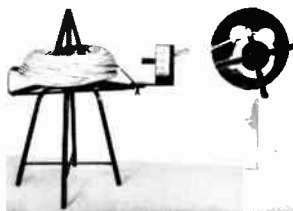
Wire meter accurately measures wire, loom, etc. Takes any flexible material up to 1" diameter; registers up to 1000 feet. Easy-to-read dials instantly reset to zero. Built for long life.



No. WM-220each \$30.25

COMPLETE WIRE MEASURING UNIT

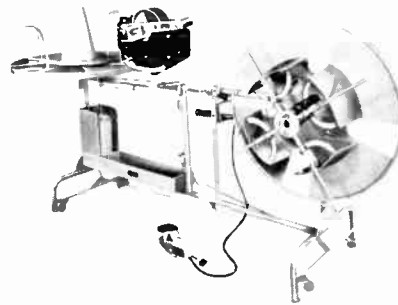
Combines Store-room Reel, Wire Meter, and Take-up Reel for quick, accurate measuring of wire or cable up to 1" diameter. Sturdy welded steel unit takes little floor space. Portable for use on the job.



Cat. No.	Description	Shpg. Wt. Lbs.	Each
SRM-18	Unit complete with 2 Reels and Meter.....	59	\$111.50
SRR	Store-room Reel only.....	40	61.00
TUR	Take-up Reel only 18".....	13	16.50
WM-220	Wire Meter.....	3 1/2	30.25

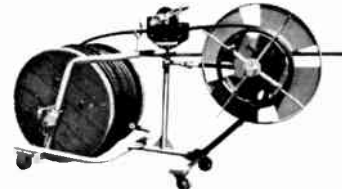
WEMCO

No. 3118 PORTABLE DELUXE COILING MACHINE



Capacity 150 ft. 500 MCM cable. Adjustable turntable, spool, spindle, TW wire cone, 2" precision meter. Tool and twin box, twine cut-off tool, coiler brake, adaptable for power. No. 3118 Coiling Machineeach \$410.00

COILER-CART



One-piece complete wire handling machine with Fulcrum lift mechanism that enables a man to lift reels weighing up to 2000 lbs. Compact -- only 3' x 8', and portable, mounted on four heavy-duty casters. Adaptable for power turning.

No. 5212 Complete assembly with 12" Coiler for up to 2/0each \$372.50
No. 5218 Complete assembly with 18" Coiler for up to 500 MCMeach \$445.00

REEL HANDLING CARTS



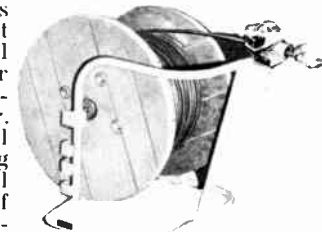
No. 2132A Reel Payout Cart for 32" x 54" reels. Includes all necessary accessorieseach \$214.00

No. 2132B Reel Take Up Cart for 32" x 54" reels. Includes all necessary accessorieseach \$267.50

No. M-18 Coiler and adapter. Capacity 150' 500 MCM cableeach \$138.50

STEP LIFT REEL PAYOUT STAND

Utilizes operator's body weight to lift reel into position. Reel hangers spaced for various size reels. Adjustments unnecessary. Two rollers in frontal position eases loading and moving. Solid steel axle and two sets of axle to reel bore adapter bushings included.



No. 4000 reel capacity, size 26" x 38".....each \$53.50
No. 4900 reel capacity, size 32" x 48".....each 98.50
1" Meter, \$43.50 extra.

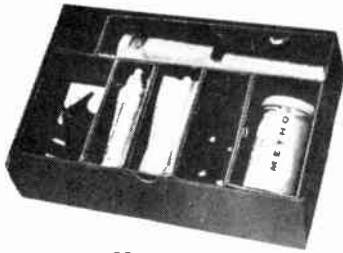
POWER UNITS



For reels up to 2500 lbs. 3/4 H.P., 29 RPM, 115/130V., 1-phase. Right angle worm gear-motor with 300% overload starting torque. Complete with pre-wired reversing and safety-guard foot control switch. Conversion fittings available to adapt unit to all previous Wemco machines. Adaptable to powerize units 3118, 5100, 2100. No. 6000 Power Uniteach \$273.50

JET LINE® PRODUCTS

GUN & CARTRIDGE KIT



No. 1110

Compact, safe, easy to use kit. For large conduit. Releases CO2 cartridge which lays nylon line up to 300 ft., double this distance when shooting both ends.

Contains Gun, Cartridges, Line Packages, Can Holder, Nose Cones and extra Needles.

No. 1110 Gun and Cartridge Kit each **\$31.50**

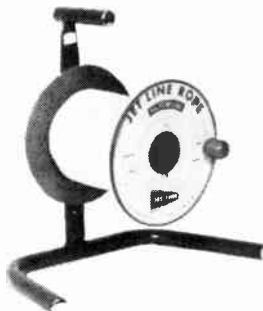
LINE PACKAGE AND LINE CAN



510-N Cartridge is tied to loop end of No. 2254 Tag-Along and tows package through pipe, laying a line as it goes, for runs exceeding 125 ft. long. Line Can contains approximately 1400' of nylon line, for use in dry conduits up to 125 ft. with gun and cartridge.

Cat. No.	Description	Per 100	Cat. No.	Description	Per 100
2254	Line Package	\$37.00	1703	Line Can	\$207.00

POLY ROPE AND REEL



Saves time pulling—does any "rope job" better. Jet Line Poly Rope is waterproof, lightweight and non-conductive. Handles easily, won't kink.

There is a Poly Rope for every job from 3/32" with 200 lb. pulling strength up through 3/4" diameter with 8000 lb. pulling strength. Convenient pulling eye spliced at factory.

Available in lengths from 250 ft. to 5000 ft. Standard diameters and lengths are reel-mounted. Cat. No. 732-N—250' of 5/8" Jet Line Rope, 500 lbs. pulling strength, on reel stand, **\$18.95**; No. 721-N—250' of 1/4" Jet Line Rope, 1100 lbs. pulling strength, on reel stand, **\$24.95**; No. 710-N—empty 8 1/2" dia. spool and reel stand, **\$12.00**; No. 715-N—empty 10 1/2" dia. spool and reel stand, **\$19.95**.

WIRE PULLER



No. 124

Lets one man do the work of 6 without strain. Complete with 200 feet 3/8" 2000 lb. test Jet Line rope. Puller weighs only 12 lbs.

No. 124 Wire Puller.....each **\$124.00**

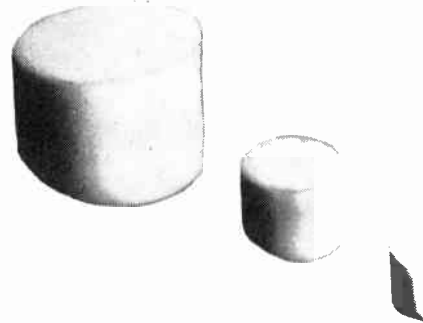
PRO-PUL INSTANT WIRE PULLING LUBRICANT



Pressurized cans. Squirt directly into the conduit. No waste—no mess. Two second shot sufficient for most pipes. Keep in your tool box.

Cat. No.	Capacity	Each
WP-14	14 Ounces	\$1.45
WP-19	19 Ounces	1.90

PIPE PLUGS



Made of compressible urethane foam, used during construction to keep dirt, cement, plaster and all foreign matter out of pipe. Three sizes fit all pipe 1/2" through 4".

Cat. No.	Sizes	Per 100
FP6	1/2" through 1"	\$ 3.50
FP7	1 1/4" through 2"	6.75
FP8	2 1/2" through 4"	23.95

PIPE SLEEVES

Jet Line Pipe Sleeves are factory-made of strong, heavy-gauge galvanized steel and cost less per unit than sleeves hand-made in the shop. They nest 10-in-one to save space, are easier to handle and store. Pre-cut flanges make bolting obsolete. Closure caps give greater strength and protection. Factory Stock 1 1/2" thru 12" diameters in 4", 6", 9" and 12" heights. Special sizes and shapes available on request. Due to extensive range of sizes, contact your local Graybar office for prices.



PIPE STRAPS



One-size Jet Line Pipe Strap eliminates large, costly inventory of many sizes and kinds—fit all shapes through 1 1/4" tubing or 1" pipe. Versatile, easy to install and use. Manufactured in brass, stainless steel and galvanized steel. Standoff keeps pipe off wall—fits all straps up to 1" pipe size.

Cat. No.	Description	Per 100
PS-10	Galvanized Metal Strap	\$ 4.50
PS-11	All Stainless Steel Strap	10.00
PS-12	Brass Strap	10.00
SO-10	Stand-Off	4.00

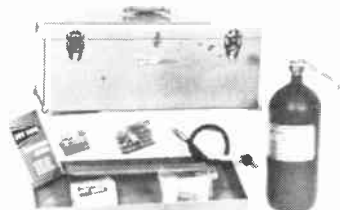
JET LINE® PRODUCTS

CO2 KITS



No. 1210

No. JL-50



No. SK-3

Save up to 70% wire pulling costs. Jet Line system lays a strong nylon line through any kind, size or length of conduit with a short blast of CO2 gas.

Cat. No.	Cylinder	Description	Each
SK3	5#	Starter Kit	\$ 60.00
JS2	5#	Complete Kit	105.00
1210	20#	Complete Kit	234.50
JL-50	50#	Complete Kit	269.50
RVA-1	.....	Complete Refill Kit	59.00
RV-2	.....	Refill Attachment	3.00
RV-3	.....	Refill Attachment	8.95
1212	.....	Underground Kit	135.00

AIR MASTER



Pushes line through conduit, pulls water out. Extra-high speed motor (17,500 r.p.m.); high vacuum (5 p.s.i.). Deposits line in large or small pipe. Air Master is lightweight (14 lbs.) and may be used with or without drum. 23-gallon replaceable drum recovers 18 gallons of water.

Drum is cart-mounted. Designed for one-man operation. Accessory Kit available for use with any blower-vacuum motor.

Cat. No.	Description	Each
AM-100	Complete Kit	\$264.50
DC-200	Drum & Cart Only	74.50
MK-300	Motor & Acces. Kit	190.00
AK-400	Accessories Only Kit	60.00

AIR BLOWER KIT



Useful for blow-down cleaning of dust and dirt collections, even in hard to reach places. The high-pressure high-velocity air output can be directed easily wherever needed.

No. AB-30 Air Blower Kiteach \$56.50

AIR LINER KIT

No. AL-25



The Air Liner is a compact, rugged hand tool. Used with Line Packages and Line Cones, the Air Liner will deposit a line in all types of conduit. An excellent companion tool to Jet Line CO2 Kits, the Air Liner Kit AL-25, will do 90% of conduit fishing jobs.

No. AL-25 Air Liner Kiteach \$69.50

LINE PACKAGES

Power Saver Line Package

Foam disc on end seals around package to save CO2 or air pressure. Low friction allows maximum possible shots. Disc also holds package in position in pipe, even in vertical runs. In assorted lengths of 75' to 450' for pipe 1/2", 3/4" and 1" diameter.

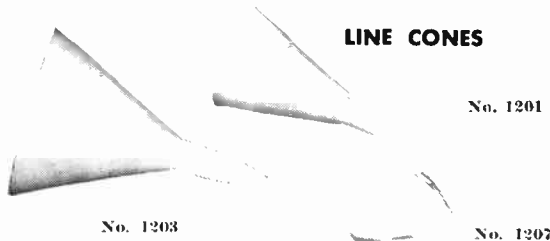


For Larger Pipe

For long runs in all type of conduit 1 1/4" through 6". Deposits a line as it is carried through pipe by Line Cone, above or below grade. Use only with Line Cone.

Due to extensive range of sizes of Line Packages, please contact your local Graybar office for prices.

LINE CONES



No. 1201

No. 1203

No. 1207

Carry line packages in all types of conduit 1 1/4" and larger. Are cut to size of conduit and re-used many times. Line Cone Guide for use in pipe 2 1/2" or larger keeps cone in center of pipe.

Per 100: No. 1201, \$90.00; No. 1203, \$100.00; No. 1207, \$70.00.

RIGID ROPES

Fish any conduit easier, faster, safer, and for less cost. Non-conductive — all poly braided jacket over solid core. Flexible, easy to push — easy to grip for pulling. Durable—long lasting. Can't rust or mildew.

Cat. No.	Length	Each
RR3	25 ft.	\$ 3.95
RR4	50 ft.	7.45
RR5	100 ft.	12.45

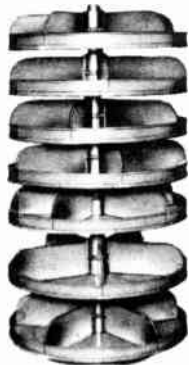


LYON TOOL STANDS



Interchangeable trays. Glide feet or swivel casters. Stands without casters 34" high— with casters 37 $\frac{3}{4}$ " Gray finish.

- As Illustrated
- No. 3107—20" wide, 28" deep \$38.10
 - No. 3105—Same without drawer 24.20
 - No. 3127—24" wide, 36" deep 43.40
 - No. 3125—Same without drawer 29.50
- Without Casters
- No 3106—20" wide, 28" deep \$35.70
 - No. 3104—Same without drawer 21.80
 - No. 3126—24" wide, 36" deep 41.00
 - No. 3124—Same without drawer 27.10
- With Casters But No Center Tray
- No. 3103—20" wide, 28" deep \$33.55
 - No. 3101—Same without drawer 19.65
 - No. 3123—24" wide, 36" deep 37.25
 - No. 3121—Same without drawer 23.35
- Without Casters and Center Tray
- No. 3102—20" wide, 28" deep \$31.15
 - No. 3100—Same without drawer 17.25
 - No. 3122—24" wide, 36" deep 34.85
 - No. 3120—Same without drawer 20.95



REVOLVING BINS

Used as individual complete storage units or to supplement Lyon Shelving. Each shelf has 5 permanent dividers. Extra dividers may be added if desired. Stabilized shelves revolve easily in either direction even under unbalanced loads. Gray baked-on enamel finish.

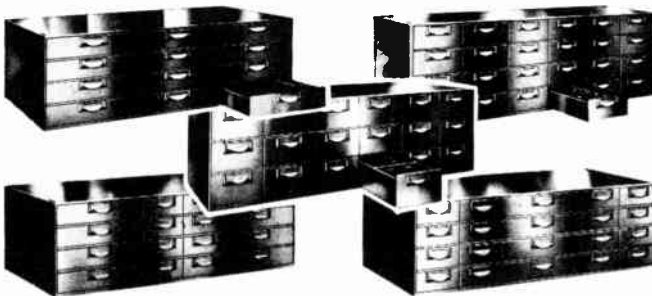


No. 3950—7 Shelf Revolving Bins are complete storage units in themselves or may be used to supplement Lyon Shelving installations. No. 3950 — 34" diameter, 65 $\frac{1}{4}$ " high \$138.85 (Shipping weight 230 pounds)

No. 3953—4 Shelf Revolving Bins may be used free standing or under any 39" opening in counters or in shelving. No. 3953 — 34" diameter, 37 $\frac{1}{4}$ " high \$ 87.35 (Shipping weight 146 pounds)

DRAWER CASE UNITS

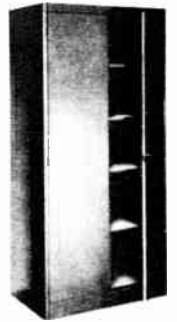
Outside case neat and attractive. Tangs on bottom of each case can be bent down to engage slots in top of unit below when cases are stacked. Dividers adjustable every inch. Gray enamel finish.



- (A) No. 2360 — 12 Drawer 34 $\frac{1}{4}$ " x 17" x 10 $\frac{3}{8}$ "\$45.70
Drawers approx. 11" x 16" x 2". Five dividers per drawer.
- (B) No. 2373 — 16 Drawer 34 $\frac{1}{4}$ " x 17" x 10 $\frac{3}{8}$ " 45.45
Wide drawers approx. 11" x 16" x 2". Five dividers per drawer.
Small drawers approx. 5 $\frac{1}{2}$ " x 16" x 2". Two dividers per drawer.
- (C) No. 2362 — 18 Drawer 34 $\frac{1}{4}$ " x 11" x 10 $\frac{3}{8}$ " 32.55
Drawers approx. 5 $\frac{1}{2}$ " x 10" x 2 $\frac{3}{4}$ ". Two dividers per drawer.
No. 2363 — 18 Drawer 34 $\frac{1}{4}$ " x 17" x 10 $\frac{3}{8}$ " 37.90
Drawers approx. 5 $\frac{1}{2}$ " x 16" x 2 $\frac{3}{4}$ ". Two dividers per drawer.
- (D) No. 2374 — 20 Drawer 34 $\frac{1}{4}$ " x 17" x 10 $\frac{3}{8}$ " 45.25
Wide drawers approx. 11" x 16" x 2". Five dividers per drawer.
Small drawers approx. 5 $\frac{1}{2}$ " x 16" x 2". Two dividers per drawer.
- (E) No. 2265 — 24 Drawer 34 $\frac{1}{4}$ " x 11" x 10 $\frac{3}{8}$ " 38.70
Drawers approx. 5 $\frac{1}{2}$ " x 10" x 2". Two dividers per drawer.
No. 2366 — 24 Drawer 34 $\frac{1}{4}$ " x 17" x 10 $\frac{3}{8}$ " 45.05
Drawers approx. 5 $\frac{1}{2}$ " x 16" x 2". Two dividers per drawer.

LYON CABINETS

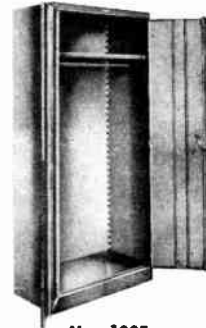
Modern styling with rounded front corners, chrome handles, built-in lock. All shelves adjustable. Gray enamel finish.



No. 1000

STORAGE TYPE

- No. 1000 — 36" x 21" x 78" Set Up \$77.85
- No. 1001 — Same cabinet K.D.\$63.95



No. 1005

WARDROBE TYPE

- No. 1005—36" x 21" x 78" Set Up \$72.60
- No. 1006—Same cabinet K.D.\$58.85



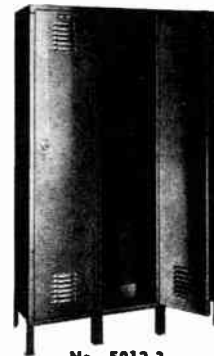
No. 1010

COMBINATION TYPE

- No. 1010—36" x 21" x 78" Set Up \$83.70
- No. 1011—Same cabinet K.D.\$67.45

LOCKERS

Lyon lockers feature finger-tip handles with built-in padlock attachment — full length, pre-locking lock bar — rigid frame — and trouble-free hinges. Finished in high quality gray baked-on enamel. Green or beige finish also available. Can be equipped with built-in key or combination locks.



No. 5012-3

WITH PADLOCK ATTACHMENT		
SIZE (Per Opening)	SINGLE ROW	
	Product No. K.D.	Price Per Open.
12x12x60—3 wide.....	5002-3	\$16.70
1 wide.....	5002	20.10
12x15x60—3 wide.....	5012-3	\$17.50
1 wide.....	5012	21.50
12x18x60—3 wide.....	5022-3	\$18.75
1 wide.....	5022	23.10
12x15x72—3 wide.....	5032-3	\$19.25
1 wide.....	5032	23.65
12x18x72—3 wide.....	5042-3	\$20.35
1 wide.....	5042	25.20
15x18x72—3 wide.....	5062-3	\$22.10
1 wide.....	5062	26.60
18x18x72—3 wide.....	5092-3	\$23.55
1 wide.....	5092	27.90

SHOP DESKS



No. 2250

STANDING TYPE has strong, smooth writing surface plus locking drawer with nylon glides, rolled handle. Gray enamel finish.

No. 2250 — 34 $\frac{1}{2}$ " x 30" x 53" \$52.95

(Shipping weight 103 pounds)

PORTABLE TYPE — Same as No. 2250 plus casters. Front casters are swivel type with foot controlled lock.

No. 2254 — \$59.45

(Shipping weight 107 pounds)

CABINET TYPE is same as No. 2250 plus cabinet. Three point locking device. Adjustable shelf. Cabinet and drawer have built-in key locks. Gray enamel finish.

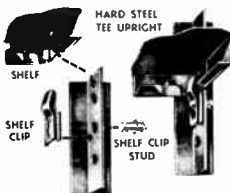
No. 2251 — 34 $\frac{1}{2}$ " x 30" x 53" \$82.00
(Cabinet 32" wide, 28" deep)
(Shipping weight 163 pounds)



No. 2251

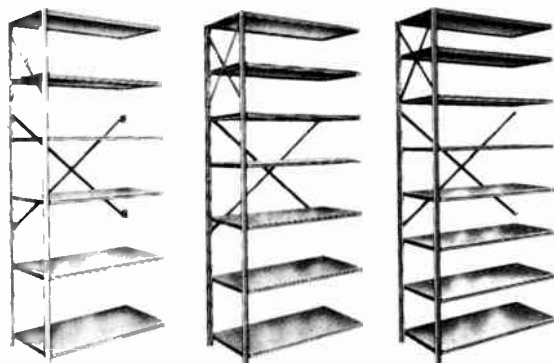
LYON STEEL SHELVING

Lyon Steel Shelving features easy, low cost assembly — quick adjustability — vise tight rigidity — without use of nuts, bolts or tools. Shelves are quickly adjustable from the front. Choice of five types for every shelving requirement. All types feature patented shelf clip and stud. Gray enamel finish. Green finish also available. Shipped K.D. See wide line of accessories on following pages.



Pat. No. 2,604,213

OPEN TYPE

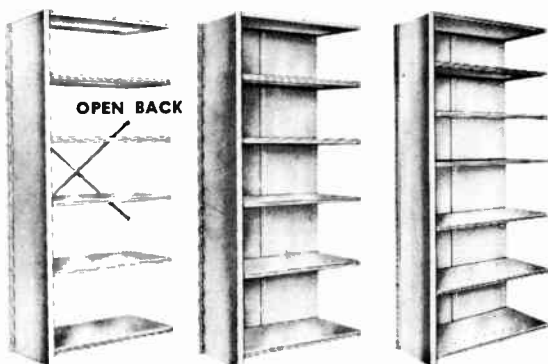


WxDxH	Regular Shelves	
3x1x7	4040	\$27.15
3x1½x7	4041	31.75
3x2x7	4042	36.95
WxDxH	Reinforced Shelves	
3x1x7	4043	\$30.15
3x1½x7	4044	34.75
3x2x7	4045	40.00

Regular Shelves	
4030	\$30.55
4031	35.95
4032	42.15
Reinforced Shelves	
4033	\$34.05
4034	39.45
4035	45.65

Regular Shelves	
4020	\$32.70
4021	38.80
4022	45.70
Reinforced Shelves	
4023	\$36.75
4024	42.80
4025	49.80

CLOSED TYPE



WxDxH	Regular Shelves	
3x1x7	4270	\$28.75
3x1½x7	4271	34.20
3x2x7	4272	40.50
WxDxH	Reinforced Shelves	
3x1x7	4273	\$31.85
3x1½x7	4274	37.25
3x2x7	4275	43.50

Regular Shelves	
4260	\$35.95
4261	39.10
4262	45.30
Reinforced Shelves	
4263	\$39.00
4264	42.10
4265	48.35

Regular Shelves	
4090	\$39.70
4091	43.75
4092	50.95
Reinforced Shelves	
4093	\$43.30
4094	47.30
4095	54.50



RACK END

WxH	Product	Price
1x7	4530	\$6.80
1½x7	4536	6.90
2x7	4541	7.05

WxH	Product	Price
1x7	4500	\$ 9.95
1½x7	4506	11.20
2x7	4511	12.75

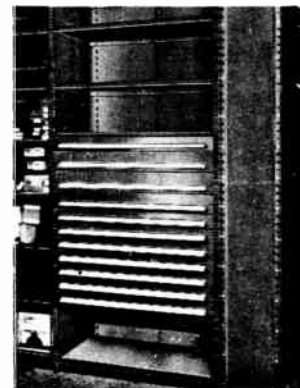
LYON MODULAR DRAWERS

Quickly and easily convert 24" deep Lyon steel shelving to rugged, full suspension, visible drawer storage.

Corner Guide Supports attach easily to shelving uprights. Two heights — 18" and 36". (36" cannot be used in counter high shelving.)

Drawers available in five heights — see below. All are interchangeable and may be used in any combination of heights that adds up to the 18" or 36" height of corner guide supports. A wide range of partitions and dividers is available to subdivide drawers into a multitude of compartment sizes to meet your individual requirements.

Drawers fit 36" wide by 24" deep shelving sections. Inside dimensions of all drawers are 31⅞" wide, 22⅞" deep. Gray baked-on enamel finish.



A 36" high unit as it appears in a rack of Lyon 24" deep shelving

CORNER GUIDE SUPPORTS

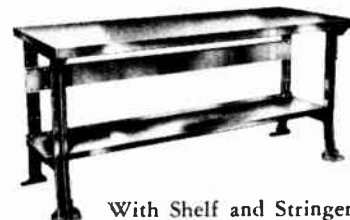
- No. 4918 — Set of Four 18" High \$4.55 per set
- No. 4936 — Set of Four 36" High 5.55 per set

DRAWERS

- No. 4903 — 3" High (2" Inside) \$26.60 each
- No. 4904 — 4" High (2½" Inside) 28.00 each
- No. 4905 — 5" High (3½" Inside) 30.75 each
- No. 4906 — 6" High (4½" Inside) 32.00 each
- No. 4907 — 7" High (5½" Inside) 33.45 each

WORK BENCHES STEEL TOP

Lyon Work Benches are sturdily built to withstand hard usage. All models have flared feet with steel base plate for complete rigidity. Gray finish.



With Stringer Only

- No. 2468—\$34.65 — 48" x 28" x 34" — No. 2474—\$39.80
- No. 2469— 38.45 — 48" x 34" x 34" — No. 2475— 43.75
- No. 2502— 37.25 — 60" x 28" x 34" — No. 2522— 43.50
- No. 2503— 41.45 — 60" x 34" x 34" — No. 2523— 47.75
- No. 2504— 40.95 — 72" x 28" x 34" — No. 2524— 47.85
- No. 2505— 45.05 — 72" x 34" x 34" — No. 2525— 52.10

With Shelf and Stringer

PRESSED WOOD TOP OVER STEEL

- No. 2530— 55.00 — 60" x 28" x 34" — No. 2534— 61.20
- No. 2531— 59.40 — 60" x 34" x 34" — No. 2535— 65.60
- No. 2532— 59.00 — 72" x 28" x 34" — No. 2536— 65.90
- No. 2533— 63.50 — 72" x 34" x 34" — No. 2537— 70.45

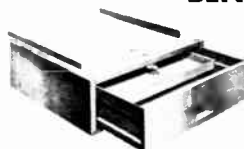
LAMINATED HARDWOOD TOP

- No. 2540— 73.75 — 60" x 28" x 34" — No. 2550— 79.30
- No. 2541— 86.05 — 60" x 34" x 34" — No. 2551— 91.65
- No. 2542— 85.95 — 72" x 28" x 34" — No. 2552— 91.55
- No. 2543— 100.45 — 72" x 34" x 34" — No. 2553— 106.70

PRESSED WOOD OVER WOOD TOP

- No. 2444— 53.85 — 60" x 28" x 34" — No. 2454— 59.75
- No. 2445— 63.70 — 60" x 34" x 34" — No. 2455— 69.55
- No. 2446— 62.30 — 72" x 28" x 34" — No. 2456— 68.95
- No. 2447— 71.95 — 72" x 34" x 34" — No. 2457— 78.50

BENCH DRAWERS



Drawer operates on Ball Bearing Rollers within its own complete case. Sliding drawer tray, automatic stops and attachment angles. Gray finish. Drawers bolt together for two or three shift operations.

- No. 2788 \$14.90
- Overall — 15¾" x 20" x 6¾"
- Drawer — 14⅞" x 19¾" x 5"
- (Shipping weight 23 pounds)
- No. 2789 \$16.20
- Overall — 21¾" x 20" x 6¾"
- Drawer — 20⅞" x 19¾" x 5"
- (Shipping weight 28 pounds)

GRAYBAR PACKAGE RACKS

Manufactured by Palmer-Shile

PROVIDE UNEQUALLED ERECTION SIMPLICITY WITH MAXIMUM STORAGE VERSATILITY



Designed to provide the finest possible answer to storage problems in factories, garages, plants, warehouses . . . you name it . . . is the versatile Graybar Package Rack.

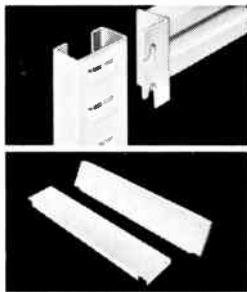
Available in two basic units — PR7224 which is 72" high x 24" deep x 96" wide and PD9630 which is 92" high x 30" deep x 96" wide—this outstanding

rack system has only two parts to assemble . . . upright frames and shelf beams. (Upper right). These interlocking components are readily assembled in minutes by one man without welding or requiring special tools.

CONVENIENT DROP-IN SHELVES

. . . EXTENSION UNITS

Just as versatile as the racks are the sturdy drop-in galvanized steel shelves (lower right) which provide fast, solid decking. They're available in packages containing 12 deck pieces . . . enough for one shelf. To insure against obsolescence, this easy-to-use rack system can also be extended to any workable length by utilization of extra upright frames and extra pairs of shelf beams. In other words, you can start with the basic rack and increase the size of your rack system to meet growing inventories or load changes.



GRAYBAR PR9630 PACKAGE RACK

(96" high x 30" deep)
2 upright frames—4 pr. shelf beams
Weight 240# \$90.75

GRAYBAR PD3012

(12—8" x 30" Deck Pieces for 1 shelf)
Weight 37# \$20.60 Pkg.

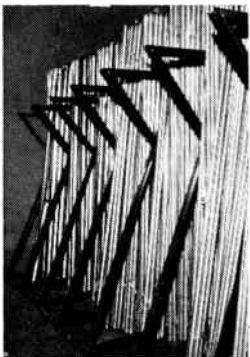
GRAYBAR PR7224 PACKAGE RACK

(72" high x 24" deep)
2 upright frames—3 pr. shelf beams
Weight 182# \$76.25

GRAYBAR PD2412

(12—8" x 24" Deck Pieces for 1 shelf)
Weight 30# \$19.60 Pkg.

SAVE SPACE, TOO, WITH LOW-COST GRAYBAR VERTICAL STORAGE RACKS



Here is a full nine square feet of highly compact, easy-to-use storage space for vertically stacking such hard-to-store items as conduit . . . pipe . . . lumber . . . eaves-troughing . . . bar stock, etc.

These handy space-savers are easy to install . . . can be used with or without pallets . . . back-to-back . . . side-by-side . . . or both. They increase storage efficiency, save space and contribute to good house-keeping.

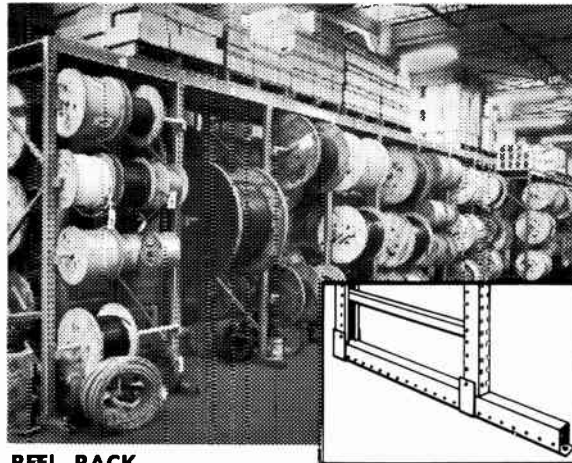
\$85.00 each

Above Prices F.O.B. Detroit, Mich. or Norristown, Pa.

INTERLAKE STEEL

SLOTTED ANGLE AND RACK KITS

Slotted Angle Bolts Together To Frame Anything

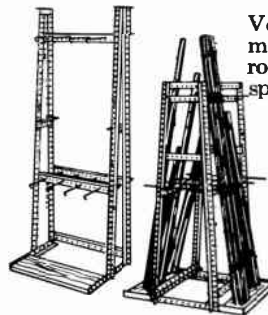


REEL RACK

Interlake All-Purpose Rack quickly converts for convenient reel storage with the addition of the 1A-0901 or 1A-0905 Reel Holder Accessory. When located against wall, it must be lagged to wall using the Rigid Wall Fix Accessory. For free-standing installation, the reel rack frame base (small photo) is available and will be engineered to provide the proper size for your requirements. Specify frame size, number of reels, weight and size of reels to be stored.

Call your local Graybar office for engineering and pricing to meet your exact needs.

VERTICAL BAR STOCK RACKS



Vertical Type Rack Kits offer maximum storage area for bars, rods, tubes, etc., from limited floor space.

SINGLE ENTRY

Kit No. 5200
84" high x 24" deep x 36" long \$23.95
(60 lbs.)

DOUBLE ENTRY

Kit No. 5201
84" high x 48" deep x 36" long \$33.55
(75 lbs.)

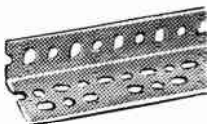
SLOTTED ANGLE

Three Sizes to Meet Every Framing Requirement. Packages of Interlake Steel Slotted Angle include 75 nuts and bolts.



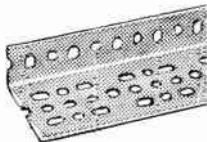
LIGHTER DUTY

150-74 Steel—for smaller size racks, carts, benches, equipment mounts, etc. 1½" x 1½" x .074".
10' lengths (pkg. of ten) \$23.75
12' lengths (pkg. of ten) \$28.20
15' lengths (pkg. of eight) \$28.20



STANDARD DUTY

225-80 Steel—for majority of everyday projects 2¼" x 1½" x .080". (Available in aluminum.)
10' lengths (pkg. of ten) \$31.25
12' lengths (pkg. of ten) \$37.50
15' lengths (pkg. of eight) \$37.50



HEAVY DUTY

300-104 Steel—for jobs demanding heavier load capacity.
10' lengths (pkg. of ten) \$44.25
12' lengths (pkg. of ten) \$52.90
15' lengths (pkg. of eight) \$52.90

FLAT PUNCHED STRIP



For tensioning units diagonally for extra rigidity. Also for crates and beams horizontally or vertically as a load divider on storage units . . . or as a hanger.

10' lengths (pkg. of ten) \$11.90

NUTTING TRUCKS



FIG. 1152-DPL

14x47" High Steel Tubing Frame
 Overall Width 21"
 Approx. Wt. 35 lbs.
 Roller bearing demountable,
 semi-pneumatic rubber tired
 wheels.
 Wheel Size 10x2 3/4"
 Capacity 320 lbs.
 Nose Length 7"
 Each \$29.90



FIG. 16-12

Steel Strapped Hardwood Frame
 Handle Length 52"
 Overall Width 20"
 Nose Length 4 1/2"
 Approx. Wt. 70 lbs.
 Wheel Size 8x2"
 Capacity 800 lbs.

Roller bearing demountable rubber tired wheels.
 Each \$44.10

FIG. 831-30

Rack Ht. 35"
 Hardwood Deck Ht. ... 8"



Ball bearing demountable rubber tired wheels.

Fig. No.	Deck Size	Whl. Size	Cap.	Each
831-30	24x42"	5x1 1/4"	800 lbs.	\$51.35
831A-30	24x48"	5x1 1/4"	800 lbs.	51.90
831B-30	24x48"	5x1 1/2"	1,200 lbs.	54.00

FIG. 2053-1

Push Handle Ht. 37"
 Hardwood Deck Ht. 14"
 Capacity 2,500 lbs.
 Wheel Sizes 6 x 1 3/4" & 12 x 2 1/4"



Roller bearing demountable rubber tired wheels.

Deck Size	Approx. Wt.	Each
24 x 36"	155 lbs.	\$79.20
24 x 48"	165 lbs.	82.45
30 x 48"	180 lbs.	88.15
30 x 60"	195 lbs.	92.40
36 x 60"	205 lbs.	94.70

FIG. 2011-14



STAKE HT.
 30" above
 deck
 DECK HT.
 14 3/4"
 CAP.
 2,000 lbs.

6 x 1 3/4" and 12 x 2 1/4" roller bearing rubber tired wheels. Tilt style for turning within own length.

Deck Size	Approx. Wt.	Each
24 x 48"	180 lbs.	\$84.40
27 x 48"	190 lbs.	88.85
30 x 48"	195 lbs.	89.95
30 x 60"	210 lbs.	94.25

PULLMAN MAINTENANCE EQUIPMENT

PULLMAN VACMOBILE®

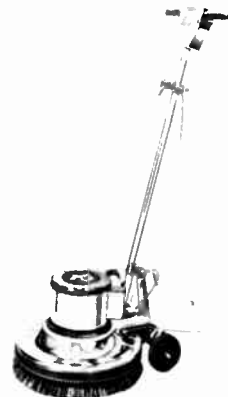


Full line of wet/dry vacs guaranteed not to clog—from lightweight compacts to heavy-duty powerhouses that take the biggest jobs in stride. Over 100 optional tools and attachments available producing more uses from every machine.

Model	H.P.	Water Lift Inches	Recovery Capacity Gallons	Each
JB 90 CV Dry	1	84	9 1/2	\$175.45
JB 90 CV W/D	1	84	9 1/2	201.57
JB 85 CV Dry	1	84	5	157.50
JB 85 CV W/D	1	84	5	169.95
JB 75 CV Dry	1	78	9 1/2	225.45
JB 75 CV W/D	1	78	9 1/2	251.57
JB 365 CV Dry	1 1/2	92	12	295.45
JB 365 CV W/D	1 1/2	92	12	321.57

PULLMAN FLOOR MACHINE

Two styles afford right size, weight, speed for easiest or most complicated floor and rug care job. PC Models have exclusive adjustomatic handle control—eliminates user bending to adjust handle to comfortable operating height.



Model	Brush Dia. Inches	Motor H.P.	Wt. Lbs. With Brush	Each
P-13B	13	1/8	51	\$169.95
P-14C	14	1/2	63	239.95
PC-16C	16	1/2	84	329.95
PC-18D	18	3/4	96	389.95
PC-20E	20	1	105	419.95
PC-24F	24	1 1/2	137	534.95

PULLMAN LITTERBUGGY®



4 H.P. heavy-duty performance for large area clean-up, for faster handling, for time and labor savings. Works as fast as a man can walk; swallows litter and debris into king-size easy-empty bag. Available gasoline driven or propane powered.

Model JB-20 Gasoline Litterbuggyeach \$349.95
 Model JB-22 Liquid Propane Litterbuggyeach 449.95

ADAMS POLE AND ANCHOR HOLE DIGGERS

Front or Rear Mounted



For digging holes up to 20-in. diameter to a depth of 9 ft. either vertical or at an angle, and can be maneuvered for digging on hills, in gullies or other rough terrain.

Can be operated by regular line from any line truck carrying pole derricks.

Operator has complete control of auger speed, direction and depth. Hand control lever with

five operating positions in a 180° arc permits operator to work from the most desirable position.

Has 8 H.P. engine mounting assembly which clamps on truck bed — easily removed — no power take-off needed. Power is transmitted through automatic clutch providing automatic overload control — engine will not stall if auger strikes obstruction (therefore no shear pins to replace). Nor does auger flight start to rotate until operator brings engine up to predetermined operating speed.

All steel construction, with casting of electric furnace steel. Uses 9, 12, 16 or 20 inch augers and digs holes up to 9 feet deep at distances to 15 feet from truck. (Augers not included).

Shipping weight approximately 525 lbs.

Cat. No.

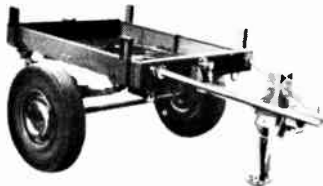
Description

P.E. Digger, including Standard Transmission, Standard (1) Piece 16-Ft. Long Flexible Drive Shaft, Engine Mounting Assembly and Torque Arm.

Also available same as above except with a (1) piece 19 or 20-ft. flexible drive shaft or with (3) piece sectional flexible drive shaft in place of standard.

ADAMS TRAILERS

POLE TRAILERS



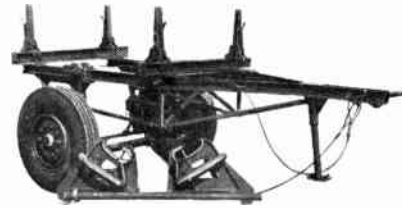
Model P-3T: With short stake assembly. Light, sturdy, all-steel trailers that can be converted to many uses. Easily towed by ½, 1 or 1½-ton trucks. Capacity, 3000 lbs.



Model P-8-T: Have all the features and strength to carry the occasional heavy load of poles, yet light enough in construction to handle average or light loads economically. Capacity, 8000 lbs.

ADAMS TRAILERS

COMBINATION POLE AND REEL TRAILERS



Model PCP: Developed specially for companies having limited need for standard cable reel trailers. Bolsters with sliding-cam locking stanchions quickly mounted or unmounted. Reel saddles can be attached quickly and easily; reel capacity 34-38 inches. Track, 76½ inches. Capacity, 10,000 lbs.

Model PCP2: Reel capacity 44-48 inches; track 84¾ inches. Capacity, 12,000 lbs.

REEL TRAILERS



Model PWCP: For quick, efficient loading and transportation of extra-heavy, unwieldy cable reels. Reel capacity 44-48 inches. Track, 84¾ inches. Capacity 10,000 lbs.

Model PWD: Reel capacity, 34-38 inches; track 76½ inches. Capacity, 6,000 lbs.

Model PWD2: Reel capacity, 44-48 inches; track 84¾ inches. Capacity, 8000 lbs.

ADAMS COLLAPSIBLE POWER REELS

Type CR



Used for quick easy winding and stringing of small diameter cable and wire. A half-turn of the locking handle collapses the outer rim segments and reduces the diameter allowing removal or mounting of the coils.

Because of its strong lightweight alloy construction and bayonet locking device this reel can be easily and quickly mounted on extended winch drum shaft and

operated by one man.

All parts are precision machined to insure easy and trouble-free operation.

A feature is the box section and reinforced edge of the outer rim segments made from high tensile heat-treated aluminum.

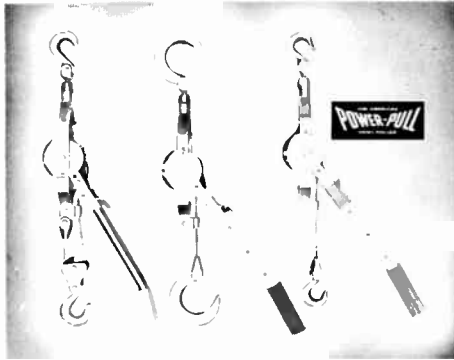
Spindle plug has precision ground threads giving a positive fit and more accurate alignment of the locking handle. Locking handle and sliding spider are made of cast steel. Fixed spider and yokes are heat-treated aluminum alloy. Spindle assembly is of seamless carbon steel tubing precision ground for ease of operation.

Type	Dimensions, Inches			Winch Drum Shaft
	Expanded	Collapsed	Inside	
CR	28	18¾	20	2 7/8

Shipping weight, approx. 75 lbs. Finish — Red.

Prices and complete information on request.

**AMERICAN POWER-PULL
HOIST-PULLER**



1-Ton Model Handles Over 2000 Lbs. 1-Ton BX Model Handles Over 2000 Lbs. 2-Ton Model Handles Over 4000 Lbs.

Stretches, pulls, lifts and lowers. One man can handle jobs that two or more might find difficult. Constructed of high strength alloys, hardened pivot points, manganese bronze fittings, air-craft test cable, stainless steel springs, rust-resistant throughout. Notch-at-a-time release. Factory tested to 50% overload.

Can be used to string wire and cable, set and guy poles, hoist work platforms, handle reels, raise or lower material, help fell or trim trees, move equipment, tie down cargo, release or apply tension, exert force.

Model No.	Capacity	Max. Lift Feet	Cable Dia. In.	Leverage	Wt. Lbs.	Each
72	1-Ton	6	1/8"	18:1	6 1/2	\$23.00
108	1-Ton	9	1/8"	18:1	6 3/4	24.00
144	1-Ton	12	1/8"	18:1	7	25.00
144BX	1-Ton	12	1/8"	18:1	7	33.50
180	1-Ton	15	1/8"	18:1	7 1/4	26.00
216	1-Ton	18	1/8"	18:1	7 1/2	27.00
72-A	2-Tons	6	1/8"	36:1	7 1/2	35.00

Note: All Power-Pulls are available in reverse pull. Suffix R.P. to Model No. when ordering.

POWER-PULL ACCESSORIES

Plastisol Handle



3/32" to 1/8" thick Plastisol bonded insulation — protection against momentary hotline contact. Extra \$1.00

Safety Hooks



For added safety in place of regular hookseach \$1.00

"AMERICAN BRAND" AND "AMCO"



A pure manila rope made of selected long-fibre hemp that is clean and always uniform in size and strength; waterproofed with a special cordage solution to make it extremely resistant to moisture and drying out, thereby insuring long life and serviceability.

We can also furnish "American Brand" premium-grade utility rope and "Amco", a treated waterproof rope, both specially designed for utilities in a full range of sizes.

AMERICAN® SYNTHETIC ROPES



In the most popular FLOTEROPE category, American produces polypropylene and patented PNX lines. The standard polypropylene construction provides a lightweight, strong, flexible general purpose line. The heavy duty construction offers a heavier, firmer and stronger pulling line for the really tough jobs. PNX was designed to insure surface softness, better gripping properties, improved flexibility and increased abrasion resistance.

THREE STRAND UTILITY ROPES

Dia. In.	Polypropylene Monofilament Standard		Heavy Duty for Pulling Lines		PNX	
	Lbs. Per 100 Feet	Breaking Strength Lbs.	Lbs. Per 100 Feet	Breaking Strength Lbs.	Lbs. Per 100 Feet	Breaking Strength Lbs.
1/8"	.3	330	.....	.....	.....	.....
1/8"	.7	800	.....	.....	.....	.....
1/4"	1.2	1250	.....	.....	.....	.....
1/8"	1.8	1900	.....	.....	2.3	1900
3/8"	2.8	2700	.....	.....	3.3	2700
1/2"	3.8	3500	4.0	3700	4.4	3500
5/8"	4.7	4200	5.0	4500	5.5	4200
3/4"	6.1	5100	6.4	5300	7.0	5100
7/8"	7.5	6200	8.0	6800	9.3	6200
1"	10.7	8500	11.6	9600	12.6	8500
1 1/8"	15.0	11500	15.9	13000	17.7	11500
1 1/4"	18.0	14000	20.2	17000	20.9	14000

Safe Working Load is 17% of Breaking Strength.

FLOTEROPE®

	Price Per Lb.
Polypropylene Monofilament (all sizes)	\$1.65
Specify "standard" or "heavy duty"	
PNX — 7/8" dia. and larger	1.65
5/8" and 3/4" dia.....	1.75
3/8", 1/2", 1/4" and 1/8" dia.	1.95
1/8" dia.	2.00

Standard put-ups for 1/8" and 1/4" are spools of 3000 feet. All other sizes are normally furnished on spools of 600 and 1200 feet. Upon special request, longer lengths are available for 1/2" and larger.

Unless otherwise specified, standard or heavy duty utility FLOTEROPE is furnished in black; PNX in black and white.

(TREATED) 3 STRAND MANILA ROPES

Dia. In.	Cir. In.	Weight Coil Lbs.	Approx. Length		Breaking Strength Lbs.	Per Lb.	
			Coil Feet	Per Lb.		Amer. Brand	Amco
1/8"	5/8"	50	3300	66.6	450	\$0.87	\$0.89
1/4"	3/4"	50	2500	50.0	600	.86	.88
1/8"	1"	65	2250	34.6	1000	.86	.88
3/8"	1 1/8"	65	1600	24.5	1350	.83	.85
1/2"	1 1/4"	63	1200	19.0	1750	.80	.82
5/8"	1 1/2"	90	1200	13.3	2650	.80	.82
3/4"	1 3/4"	125	1200	9.60	3450	.80	.82
7/8"	2"	160	1200	7.50	4400	.77	.79
1"	2 1/4"	200	1200	6.00	5400	.74	.76
1 1/8"	2 3/4"	270	1200	4.44	7700	.71	.73
1 1/4"	3"	324	1200	3.70	9000	.71	.73

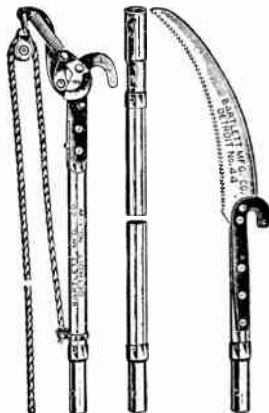
Half Coils of sizes 1/2" and larger contain 600 feet. 4-Strand rope weighs approximately 7% more than 3-strand. Safe working load is 20% of breaking strength.

**BARTLETT
COMBINATION PRUNER AND SAW**

Octagon Sitka Spruce

Consists of two separate tools as head sections, each mounted on a short length of octagon spruce with a round steel ferrule attached to the lower end, and extra 4, 6, or 8 ft. spruce extension sections.

Pruner head sections, 30" overall, are compound-lever design, single pulley type, with 1 1/4" cutting capacity. Pole saw head section, 30" overall, supplied with No. 4402-16" blade having peg tooth, 7 teeth per inch.



WE Combination Pruner and Saw

No. 1-WE-30 in. Pruner Head Section ... each \$16.45
No. 44-WE-30 in. Pole Saw Head Section each 12.40

No.	Section	Each		
		4-Ft.	6-Ft.	8-Ft.
No. P126M	Intermediate	\$6.05	\$7.10	\$8.20
No. P126B	Bottom	4.65	5.80	6.85

BARTLETT WIRE RAISING TOOL

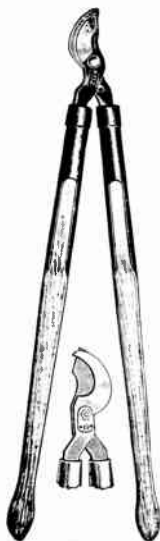
Designed for use with octagon spruce extension sections, listed above, for simultaneous placing of steel strand and open telephone line.

No. LC-65 Wire Raising Tool ... each \$5.50



BARTLETT TWO-HAND PRUNERS

Both blade and hook are hardened, drop-forged crucible tool steel. Length overall 31 1/2 in. Furnished either with white ash handles with strap ferrules, or fiberglass handles with plastic hand grips.



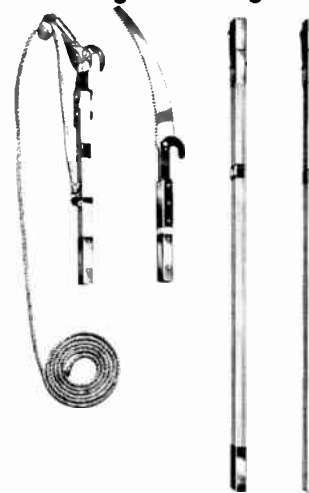
No. 777, 26" white ash handles, each \$10.20



No. 777F, fiberglass handles, each \$17.95

**BARTLETT
COMBINATION PRUNER AND SAW**

Rectangular Fiberglass



Features two separate tools as head sections, each mounted on a short length of orange fiberglass with a rectangular brass ferrule attached to the lower end, and extra 4, 6, or 8 ft. fiberglass extension sections.

Pruner head sections, 30" overall, are square-end mount, and offer a choice of either the No. 1-FWE single pulley type with 1 1/4" cutting capacity, or the No. 2-FWE double pulley design with 1 1/2" capacity. The Pole Saw head section is also the square-end mount design, 30" overall, with brass reinforcement under the head. Polypropylene pull rope, 3/8" diameter, is standard equipment on both the No. 1-FWE and No. 2-FWE Pruner Head Sections.

FWE Combination Pruner and Saw

No. 1-FWE-30 In. Pruner Head Section (1 1/4" cap.)	each	\$21.25
No. 2-FWE-30 In. Pruner Head Section (1 1/2" cap.)	each	26.80
No. 44-FWE-30 In. Pole Saw Head Section	each	16.70

Extra Rectangular Fiberglass Sections

No.	Section	Each		
		4-Ft.	6-Ft.	8-Ft.
P-126FM	Intermediate	\$16.65	\$23.00	\$29.40
P-126FB	Bottom	15.25	21.70	28.05

BARTLETT TREE PAINT

Black Asphalt-Base

For the protection of tree wounds after pruning. Packed in aerosol cans for spray application, or in 1 gal. cans and 5 gal. drums for use with brush.

- 12 oz. Aero Pack Tree Paint (12 per case) ... each \$1.95
- 1 gal. Liquid Tree Paint (6 per case) ... each 3.50
- 5 gal. Liquid Tree Paint each 10.00



BARTLETT HAND PRUNING SAWS

No. 41 Utility Saw



- Tuttle tooth blade, 20" or 24", extra large handle.
- No. 41-20" Utility Saw ... each \$7.30
- No. 41-24" Utility Saw ... each 9.25

BARTLETT HAND PRUNING SAWS

No. 127 Paragon Saw



Draw cut, 6 points per in., extra large handle, either with or without horn.

- No. 127-18" Paragon Saw each \$5.15
 - No. 127-22" Paragon Saw each 5.80
 - No. 127-24" Paragon Saw each 6.35
 - No. 127-26" Paragon Saw each 6.70
- If handle without horn wanted, specify No. 127D.

SPECIAL UTILITY SAWS



Draw cut, fast cutting teeth, 4 per inch. Lengths 24" or 26" with choice of handles.

- No. 124B-24" Special Utility Saw, D Handle each \$8.60
- No. 114BD-26" Special Utility Saw, D handle each 8.85
- No. 114B-26" Special Utility Saw, horn hdl. each 8.85

RAPID CUT SAWS



Draw cut, similar to Special Utility Saw except every third tooth is a raker with deep gullet for maximum cutting speed. Lengths of 24" or 26" with choice of handles.

- No. 124-24" Rapid Cut Saw, D handle each \$8.20
- No. 114-26" Rapid Cut Saw, Horn handle each 8.40

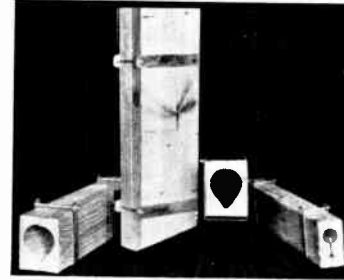
BARTLETT LEATHER SAW SHEATHS



Regular grade or professional grade (sole leather).

	each	Pro Grade	Reg. Grade
Sheath for No. 41-20"	—	—	\$8.20
Sheath for No. 41-24"	—	—	8.75
Sheath for No. 127-18"	—	—	6.55
Sheath for No. 127-22"	\$10.00	—	6.70
Sheath for No. 127-24"	10.25	—	6.95
Sheath for No. 127-26"	—	—	7.15
Sheath for Nos. 124, 124B	10.00	—	7.00
Sheath for Nos. 114B, 114BD and 114-26"	10.25	—	7.15

BOND TREE AND TROLLEY GUARDS



Used for cable protection where needed. Made from Southern Pine and can be furnished treated or untreated, creosoted or penta-treated. All hardware hot-dipped galvanized.

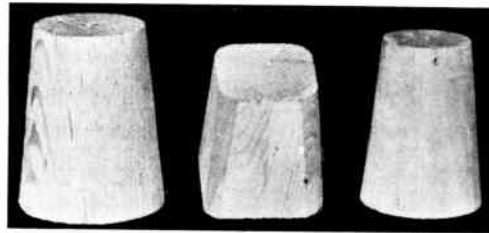
Type D — For Use On Hanger Cable Tree Guards 2 Foot Length

Cat. No.	Size In.	Each	Cat. No.	Size In.	Each
6503-1 1/2	1 1/2	.....	6503-2 7/8	2 7/8	.....
6503-2	2	.....	6503-3 1/4	3 1/4	.....
6503-2 1/2	2 1/2	.....			.....

Type L — For Use On Spun Cable Tree Guards 5-Foot Length

Cat. No.	Size In.	Each	Cat. No.	Size In.	Each
6862-1 3/4	1 3/4	.....	6862-3	3	.....
6862-2 3/8	2 3/8	.....			.....

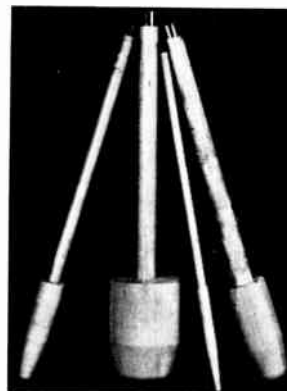
BOND CONDUIT PLUGS



Used to seal ducts, or holes, during concreting, etc. Sound wood, treated with water repellent Penta-chlorophenol.

- No. 6190 Conduit Plugseach.....

BOND DRIFT PLUGS



A tool used for restoring lead sleeves, or covering for cable wires to original shape.

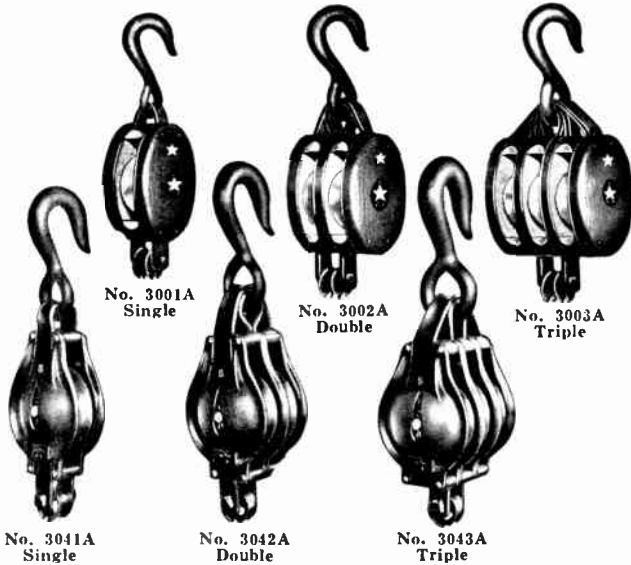
Made of hard maple, finished with varnish coating. Equipped with steel ferrules on driving end.

Overall length 36".

Cat. No.	Large End Dia. In.	Each	Cat. No.	Large End Dia. In.	Each
6636-3/4	3/4	.....	6636-3	3	.....
6636-1	1	.....	6636-3 1/2	3 1/2	.....
6636-1 1/4	1 1/4	.....	6636-4	4	.....
6636-1 1/2	1 1/2	.....	6636-4 1/2	4 1/2	.....
6636-1 3/4	1 3/4	.....	6636-5	5	.....
6636-2	2	.....	6636-5 1/2	5 1/2	.....
6636-2 1/4	2 1/4	.....	6636-6	6	.....
6636-2 1/2	2 1/2	.....	6636-6 1/2	6 1/2	.....
6636-2 3/4	2 3/4	.....	6636-7	7	.....

Price on Application

B & L STAR BRAND TACKLE BLOCKS AND FITTINGS



MORTISE WOOD BLOCKS FOR MANILA ROPE
Round Loose Hooks

Connections are drop forged with japanned or galvanized finish. Available with iron, roller or graphite bronze bushings. Other connections are also available.

METAL BLOCKS FOR MANILA ROPE
Round Loose Hooks

Connections and shells are drop forged. Edges of shell are rounded to prevent chafing of rope. Shell constructed to prevent rope from jamming between shell and sheave. Straps extend to the bottom of shell; sides are recessed covering ends of sheave pin. Available with iron, roller or graphite bronze bushings. Japanned or galvanized finish. Other connections also available.

Specifications

Length Shell In.	For Diameter Rope In.	Size Sheave, Inches		
		Outside Diameter	Thick-ness at Rim	Center Pin Diameter
3	3/8	1 3/4	x 1/2	x 3/8
4	1/2	2 1/4	x 5/8	x 3/8
5	5/8	3	x 3/4	x 3/8
6	3/4	3 1/2	x 1	x 1/2
7	7/8	4 1/4	x 1	x 1/2
8	1	4 3/4	x 1 1/2	x 5/8

When ordering specify: figure number, size of shell, number of sheaves, bushing, connection and finish.

BLOCK CONNECTIONS



Flatted Loose Safety Snap Hooks Connection F
Flatted Loose Swivel Hooks Connection E
Flatted Loose Swivel Safety Snap Hooks Connection G
Screw Pin Anchor Shackle Connection K

These connections are available on all of the blocks shown above when specified.

NYLON BLOCKS FOR MANILA ROPE
Front Eye Flatted Loose Hooks



No. 3101W Single
No. 3102W Double
No. 3103W Triple

All connections are drop forged. Shell is constructed to prevent jamming of rope between shell and sheave. Nylon sheaves, self-lubricating. Plated straps and connections. Blocks available with polished bronze straps and connections. Nylon shell is orange color; also available in mahogany color.

Size Block No.	For Diameter Rope In.	Size Sheave, Inches		
		Outside Diameter	Thick-ness at Rim	Center Pin Diameter
2	3/8 - 1/2	2	x 5/8	x 3/8

When ordering specify: figure number, connection and number of sheaves.

STEEL SHELL SNATCH BLOCKS
Eastern Pattern — For Manila Rope



No. 3075H

All connections are drop forged. Can be furnished with wire rope sheave. Available with iron, roller or graphite bronze bushings.

Length Shell In.	For Dia. Rope In.	Size Sheave, In.		
		O.D.	Thick. at Rim	Center Pin Dia.
4	3/8	2	x 7/8	x 3/8
6	5/8	3	x 1 1/8	x 1/2
7	3/4	3 1/2	x 1 1/4	x 1/2
8	1	4 1/2	x 1 3/8	x 5/8
10	1 1/4	5 3/4	x 1 7/8	x 3/4
12	1 1/2	6 3/4	x 2 1/8	x 3/4

ALUMINUM SHELL CONDUCTOR STRINGING SNATCH BLOCKS



No. 5072H

This block combines lightness with strength and may be used to string aluminum conductors without abrasion of the cable, which only comes in contact with the aluminum alloy sheave and shell. Drop forged flatted stiff swivel hook and connections. Either drop link or safety locking available. Ball bearing sheave with polished scores for aluminum cable. Bronze inner sleeve over the sheave pin increases strength and rigidity of the block. Also available with wood shell.

When ordering specify: figure number, size sheave, size cable.

Size Sheave In.	O.D.	Rim	Size Alum. Cable	
			Min. Dia. In.	Max. Dia. In.
7	1 3/8	1 3/8	7/8	1 1/8
10	1 1/2	1 1/2	3/4	1 1/8
10	2 1/4	.....	.....	1 3/8
14	2	.....	1 1/8	1 1/8
16	2 1/4	.....	1 3/8	1 3/8

Price on Application

B & L STAR BRAND TACKLE BLOCKS AND FITTINGS



SAFETY LOCKING WIRE ROPE SNATCH BLOCKS

Graphite bronze bushed; iron or steel sheaves. Galvanized finish. Drop forged flatted stiff swivel hook and connections. Shells designed to prevent rope from jamming; rope guard keeps wire in score of sheave.

For Diameter Rope In.	Size Sheave, In.—		Center Pin Diameter
	Outside Diameter	Thickness at Rim	
3/8—1/2	6	1	3/4
1/2—5/8	8	1 1/4	7/8
5/8	10	1 1/2	1

No. 5042H



FORGED STEEL CONDUCTOR STRINGING SNATCH BLOCKS

Shallow score sheaves; drop forged 5/8" round swivel hooks. Either japanned or galvanized finish. Available with iron or graphite bronze bushings.

Block No.	Size Sheave In.	Dia. M.R. In.
5101	3x 3/4 x 3/8	5/8
5102	3x1 x 1/2	3/4

No. 5101

No. 5102



LINEMAN'S SNATCH BLOCK

For stringing light conductor wire. Galvanized finish. Can be furnished drop link or safety locking; with or without locking spring. Hook fits around insulator pin; hook fits in insulator hole. Can be easily driven into pole or cross arm. Roller or graphite bronze bushed or ball bearing bushed with pressure grease lubrication.

No. 5022

LOOSE SWIVEL COME-ALONG HOOK

Galvanized finish. 1/2" size for use with 3" single, double, triple and 4" single blocks. 5/8" size for use with 4" double and triple blocks.

Size In.	Length Overall In.	Hook Opening In.
1/2	7	1 3/4
5/8	8 3/4	1 7/8



No. 5012

BOSLOC WINCH ROPE HOOK

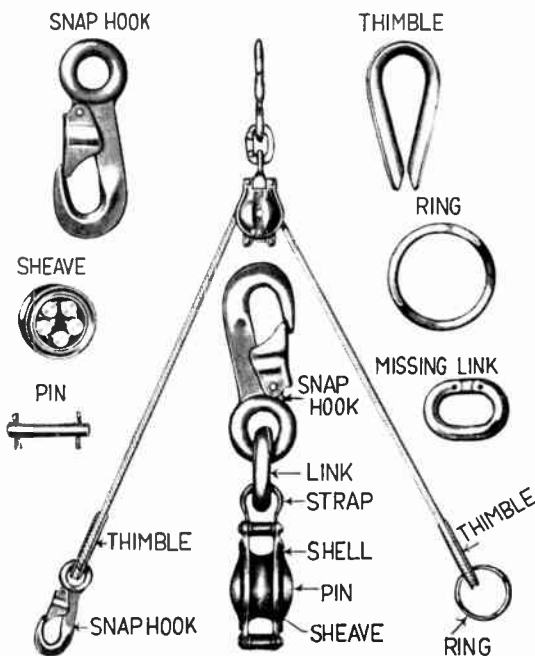
For pulling and lifting poles. Serves as a choker at end of truck mounted winch line. Drop forged steel. Quickly installed in small loop splice — point of hook inserted through splice and allowed to pass along hook until stopped by button.

Size In.	Length Overall In.	Opening at Narrowest Point, In.
1/2	8	1 3/8

Note: Hook can be made to order for 5/8" winch line.

No. 5#15

AERIAL HAND LINE



No. 5041

Used to transport safety tools and equipment to a man aloft. Consists of one roller bushed galvanized metal block, two snap hooks, one ring, two thimbles and one missing link.

SNUBBING BLOCKS



No. 5021

Takes slack out of light wire. Galvanized finish. Snap hook easily and safely engages come-along; anchor hook fits around insulator pin. For use with 3/8" dia. manila rope or number 10 sash cord. Iron, roller or self-lubricating bronze bushed. Sheaves may easily be replaced. Working load 700 lbs. Furnished without rope and anchor hook.

LIGHT WIRE BLOCKS



No. 5023

Takes slack out of light wire. Galvanized finish. Locks when fall line is pulled to one side and is released when pulled to a straight position. For use with 3/8" dia. rope or number 10 sash cord. Roller bushed sheaves which can easily be replaced. Furnished without rope.

CABLE ROLLERS



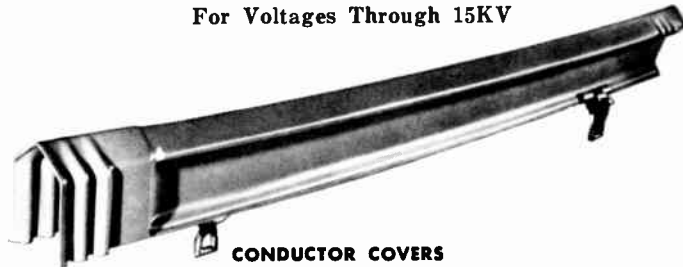
No. 5061 No. 5062 No. 5063 No. 5064 No. 5065

Single type for use in medium span construction and with pin type insulators. Double type for use with long pulls or on curves. Latch opens easily and locks securely. When ordering, specify size of cross arm.

Price on Application

CHANCE CONDUCTOR AND INSULATOR COVERS

For Voltages Through 15KV



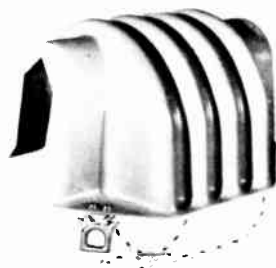
CONDUCTOR COVERS

Chance 15 KV Conductor Covers are made of orange linear polyethylene, the same material used in higher voltage Chance Cover-Up Equipment. This flexible plastic material is very lightweight and extremely durable.

These versatile Covers fit over conductors up to 1" in diameter, slide endwise over armor rods 1 3/8" in diameter. They can be quickly installed by hand using rubber gloves; or, there's a clamp on each end for a Gripall.

Interlocking is an important feature of these covers. They will interlock with one another to increase the protected area. The large end will lock on the Deadend Cover, the small end on the Insulator Hood.

Cat. No.	Overall Length	Conductor Size	Approx. Wt. Lbs.	Each
M4946	60"	636 MCM ACSR (Max.)	4	\$21.00



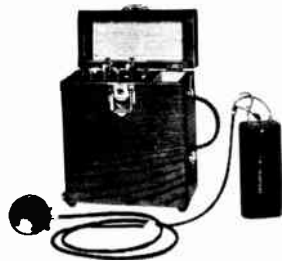
INSULATOR COVER

Designed to cover all 15 KV pin or post type insulators, the Insulator Hood can also be suspended to cover wire-holders on auxiliary arms. They interlock with Conductor Covers and give a completely shielded area around the insulator.

A rope snubbing ring on one end of the cover serves as an attachment for the Gripall Stick as well as for securing a rope. In storage, these covers can be nested to save space.

Cat. No.	For Insulator Sizes	Approx. Wt. Lbs.	Each
M4947	15 KV Pin or Post Type	3	\$10.00

CHANCE TELEFAULT



A compact instrument that will exactly locate shorts of all kinds, damp spots, crosses, grounds, split pairs — in fact every kind of cable trouble except "opens."

Very easy to operate — uses only one dry cell battery (Battery not included).

Because of the inductive field created it does not "noise" up other pairs.

With the instrument connected, the exploring coil is

moved along the cable until a point is reached where the woodpecker tapping tone cannot be heard in the earphone, which indicates the exact location of the fault. The woodpecker tapping tone is very distinct and cannot be confused with other inductive noises. Maximum voltage under 5 volts.

Expertly constructed of finest material obtainable for the purpose. Hardwood, nicely finished. Size 4 x 7 1/4 x 10-in.

Cat. No.	Description	Each
L	Telefault, complete with Coil, Cord and Receiver; weight 15 lbs.	\$120.00
	Extra Exploring Coil only; wt. 2 lbs.	22.25
	Extra Receiver only; Wt. 2 lbs.	11.00

CHANCE DEADEND COVERS

For Voltages Through 15KV



Deadend Covers are used to cover deadending assemblies consisting of the first insulator, the dead-ending clamp and the hardware used to connect them. The conductor end interlocks with M4931 or M4946 Conductor Covers to extend the protected area. Made of orange linear polyethylene, each Cover measures 26" in length, is 20" high and 11" wide.

The simplest installation angle is made possible by using a Gripall Adapter (furnished) on the universal type fitting on either side of the Cover.

Cat. No.	For Insulator Sizes	Approx. Wt. Lbs.	Each
M4948	4 1/4" through 10 1/4"	5 1/2	\$38.00

CHANCE POLE COVERS

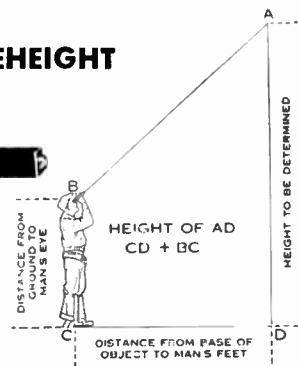
Made from extruded 6" polyethylene tubing, Chance Pole Covers have excellent memory retentive properties. This means that they form a firm clamp on the pole and give about 19" of circumferential protection from energized conductors. Two Covers can be overlapped to completely cover around the pole. They can also be used to cover crossarms.

Four sizes are available, in lengths of 12", 24", 30" and 60". The 60" model has a locking feature for splicing the sections together. Hand grips made of rope are supplied with each unit.



Cat. No.	Length	Circum.	Approx. Wt. Lbs.	Each
M4936-12	12"	19"	1	\$10.00
M4936-24	24"	19"	1 3/4	13.50
M4936-30	30"	19"	2 1/4	14.75
M4936-60	60"	19"	4 1/4	28.50

CHANCE TELEHEIGHT



This handy little instrument will save valuable time in quickly and accurately figuring heights of poles, trees, wires, buildings or other objects. No moving parts. Eliminates guessing.

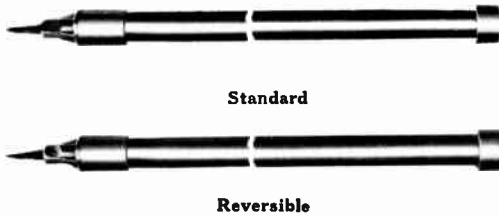
Used by power companies, municipalities, electrical contractors, telephone and telegraph companies, and railroads.

Highly recommended for appraisal work. Real estate men use them for figuring cubical contents of buildings.

Finest quality materials and workmanship. Complete with leather carrying case. Size 1 x 2 1/4 x 5 1/4-in.

No. CW — Weight Each 1 lb.each \$15.50

CHANCE PIKE POLES



Epoxiglas® poles give years of maintenance-free service because they do not absorb moisture. Reversible safety point pike poles eliminate the hazard of exposed, sharp points during transportation and handling prior to use. Points may be replaced when worn. Wire lift is available for maneuvering telephone or secondary conductors during installation.

EPOXIGLAS® POLES

—Standard Point—2" Dia.—				—Safety Point—2" Dia.—			
Cat. No.	Lgth. Feet	Approx. Wt. Lbs.	Each	Cat. No.	Lgth. Feet	Approx. Wt. Lbs.	Each
210CH	10	8	\$34.00	210PH	10	8	\$35.00
212CH	12	9 1/4	39.00	212PH	12	9 1/4	40.00
214CH	14	10 1/2	44.00	214PH	14	10 1/2	45.00
216CH	16	11 3/4	49.00	216PH	16	11 3/4	50.00
218CH	18	13	55.50	218PH	18	13	56.00
220CH	20	14 1/2	61.25	220PH	20	14 1/2	62.00

PIKE POLE FITTINGS

Cat. No.	Description	Approx. Wt. Lbs.	Each
F-2X	Ferrule	1/2	\$1.80
PP-2X	Safety Point	1/2	2.05
W-2X	Wire Lift	3	2.75
B-2XM	Butt Ring	1	.50

CHANCE HAND LINE HOOKS



Can be attached any place along the hand line by the two large holes. Long point accommodates most items to be raised or lowered at the pole. Working load of the hook is 500 pounds. Weight, 1/2 lb.

Cat. No.	Each
M1849 Hand Line Hook	\$2.00

CHANCE DISCONNECT STICKS

Disconnect sticks provide insulation safety for linemen in opening and closing disconnect switches and cutouts. They are also used for installing and removing openlink fuse links. Poles are made of Epoxiglas®. NEMA-standard heads of cast bronze are of three types — switch head, disconnect head, or spliced disconnect head.

For convenience in transporting and/or where greater length is required, Spliced Disconnect Sticks are available. The splice is strong and rigid . . . easy to put together and easy to take apart.

1 1/4" Switch				1/2" Disconnect			
Cat. No.	Lgth.	Wt. Lbs.	Each	Cat. No.	Lgth.	Wt. Lbs.	Each
H3046	*	1/4	\$ 2.00	H3046-2	*	5 oz.	\$ 2.40
H3046-11	4' 1 1/4"	1 1/4	9.75	H3046-21	4' 1"	1 1/8	15.00
H3046-12	6' 1 3/4"	1 3/4	13.25	H3046-22	6' 1"	2 1/8	19.75
H3046-13	8' 2 1/4"	2 1/4	17.00	H3046-23	8' 1"	2 3/8	24.50
H3046-14	10' 2 3/4"	2 3/4	20.50	H3046-24	10' 1"	3 1/8	29.25
H3046-17	12' 2 3/8"	2 3/8	24.25	H3046-15	12' 1"	4 1/8	34.00
				H3046-16	16' 1"	5 1/8	43.50
				H3046-18	18' 1"	5 3/8	48.25
				H3046-20	20' 1"	6 1/8	53.00

*Head only.

CHANCE Grip-All CLAMPSTICKS



Heavy-duty aluminum head castings accommodates the longer screws of larger grounding clamps. It is covered with a black linear polyethylene tube which features stabilized dielectric strength, is unaffected by exposure to atmospheric elements or rain, does not lose its toughness in coldest weather. Round fiberglass operating rod is fitted with threaded metal ferrules to provide positive adjustment.

Cat. No.	Dia. Pole	Over-all Length	Approx. Wt. Lbs.	Each
H1964-4	1 1/4"	4' 5 1/2"	5	\$34.75
✓H1964-6	1 1/4"	6' 5 1/2"	5 3/4	39.00
✓H1964-8	1 1/4"	8' 5 1/2"	6 1/2	42.50
H1964-10	1 1/4"	10' 5 1/2"	7 1/4	49.50
H1964-12	1 1/4"	12' 5 1/2"	8	58.00

✓LINEMAN'S PREFERENCE (LP) — Recommended by Chance Hot Line Tool Demonstrators.

EXTENSION



Designed specifically to fit over the Epoxiglas H1964 and H1966 Series tools, it will fit the 1864 and 1865 model tools using a split sleeve adapter.

The Extension consists of an inner rod of glass-reinforced epoxy resin, one end of which is fitted with a ferrule and eye to accept the jaws of the clamp stick. The other end is secured to a jaw holder within the head housing of the Epoxiglas pole.

Pole Dia.	Ov'all Lgth.	Ap. Wt. Lbs.	Cat. No.	Each	Cat. No.	Each
1 1/4"	4'	4	H1967-4	\$28.50	H1967-40*	\$31.00
1 1/4"	6'	4 1/2	H1967-6	34.50	H1967-60*	37.00

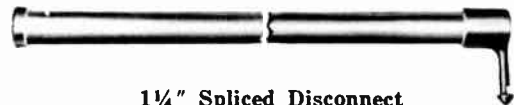
HINGED Grip-All



The Hinged Grip-All can be quickly extended and latches itself rigid in the extended position. The hinge is operated by simply pushing the spring button release at the hinge joint.

Cat. No.*	Pole Dia.	Ov'all Lgth., Folded	Ov'all Lgth., Extended	Approx. Weight	Each
H1966-6	1 1/4"	3' 4"	6' 7"	7 lbs. 2 oz.	\$53.00
✓H1966-8	1 1/4"	4' 4"	8' 6"	8 lbs. 2 oz.	57.00
H1966-10	1 1/4"	5' 4"	10' 6"	9 lbs. 2 oz.	61.00
H1966-12	1 1/4"	6' 4"	12' 6"	9 lbs. 12 oz.	66.00

*Side-Break Jaws Only
✓LINEMEN'S PREFERENCE (LP) — Recommended by Chance H. L.T. Demonstrators



1 1/4" Spliced Disconnect

Cat. No.	Length	Wt. Lbs.	Each
H3146-12	6' & 6' 1"	6	\$39.00
H3146-14	6' & 8' 1"	6 3/4	43.50
H3146-16	8' & 8' 1"	7 1/2	47.00
H3146-18	8' & 10' 1"	8 1/4	51.75
H3146-20	10' & 10' 1"	9	55.25
H3146-22	10' & 12' 1"	9 3/4	60.00
H3146-24	12' & 12' 1"	10 1/2	63.75

Fiberglass Head Disconnect

Cat. No.	Length	Wt. Lbs.	Each
H3046-5	4'	1 1/8	\$11.50
H3046-6	6'	1 5/8	15.25
H3046-7	8'	2 1/8	19.00
H3046-8	10'	2 5/8	23.00
H3046-9	12'	4	30.00
H3046-10	16'	5 1/4	41.75

CHANCE WIRE TONG SADDLES



Lightweight aluminum alloy makes saddle and clamp easy to handle. Saddle is fitted with lever operated safety chain tightener for speedy application to poles.

Cat. No.	Description	Approx. Wt. Lbs. Oz.	Each
M4740-3*	With 1 1/2" Clamp	8 3	\$35.00
M4740-4†	With 2" Clamp	8 7	37.75
M4740-5†	With 2 1/2" Clamp	8 11	40.00
M4740-9†	With 3" Clamp	8 14	42.00
M4740-10†	Without Clamp	6 2	25.50
M4741-1	1 1/2" Pole Clamp only	2 1	10.00
M4741-2	2" Pole Clamp only	2 5	12.00
M4741-3	2 1/2" Pole Clamp only	2 9	14.00
M4741-5	3" Pole Clamp only	2 12	16.00

*Linemen's Preference (LP) — Recommended by Chance Hot Line Tool Demonstrators.
 †Available with Wheel Tightener — add "W" to Cat. No.

CHANCE WIRE TONG SUPPORTS

For attaching wire tongs to poles for lifting and lowering conductors. Secured to poles with safety chain tightener.



Single Lever. Specially designed for use on H-frames or where working space is limited. Loop permits block attachment. Aluminum alloy.

Double Lever. For lifting two wire tongs simultaneously. Generally used on H-frame suspension insulator changes with heavy conductors. Aluminum alloy.

Cat. No.	Description	Lift	Working Load, Lbs.	Approx. Wt. Lbs.	Each
M4760	Single	20 3/4"	750	9 3/4	\$43.00
M4760-1	Double	13"	750*	15 1/2	46.75

*Per holder.

CHANCE WIRE TONG SADDLES
Tower Type

Cat. No.	Description	Approx. Wt. Lbs. Ozs.	Each
M4742	Saddle less Clamp	11 4	\$34.00
M4742-1	Saddle and 1 1/2" Clamp	13 4	43.00
M4742-2	Saddle and 2" Clamp	13 8	46.00
M4742-3	Saddle and 2 1/2" Clamp	13 12	49.00
M4742-4	Saddle and 3" Clamp	14	52.00

WIRE TONG SADDLE FITTINGS

Extension: Provides 4" additional clearance for wire tong saddle.

Clevis: For attaching wire tong butt ring to wire tong saddle. Applicable where wire tongs are used as brace for auxiliary arms.

Cat. No.	Description	Approx. Wt. Oz.	Each
M4740-6	Extension	12	\$6.00
M4740-14	Clevis	9	8.00

CROSS ARM TYPE WIRE TONG SADDLE

For attaching wire tong clamps where it is necessary to mount wire tongs on crossarms. Clamp attachment swivels. Adjustable.

Cat. No.	Wt.	Each
M4744	6 lbs.	\$23.00

CHANCE WIRE TONGS



Made with Epoxiglas poles. Epoxiglas poles are an exclusive product of Chance engineering. They are stronger than wood poles and will not absorb moisture; therefore, need no drying rooms. Wire tong castings are made of heat-treated aluminum alloy, separated by bronze wear rings.

Where extra length is needed, a strong Spliced Wire Tong is available (Cat. No. H4657-5). Poles splice together in seconds — breaks down to two 8-foot poles for space-saving transportation and easy handling.

Cat. No.	Pole Dia. & Lgth.	Overall Length	Wire Size Min.	Wire Size Max.	Approx. Wt. Lbs.	Each
H4645-6	1 1/2" x 6'	6' 7"	0.16"	1.50"	6 3/4	\$37.00
✓H4645-8	1 1/2" x 8'	8' 7"	0.16"	1.50"	7 3/4	41.00
✓H4645-10	1 1/2" x 10'	10' 7"	0.16"	1.50"	8 3/4	45.50
H4646-6	2" x 6'	6' 8"	0.16"	1.50"	8 1/2	45.50
H4646-8	2" x 8'	8' 8"	0.16"	1.50"	9 5/8	54.00
H4646-10	2" x 10'	10' 8"	0.16"	1.50"	10 3/4	62.25
H4646-12	2" x 12'	12' 8"	0.16"	1.50"	12	71.00
H4647-10	2 1/2" x 10'	10' 8"	0.16"	1.50"	17 1/2	74.00
✓H4647-12	2 1/2" x 12'	12' 8"	0.16"	1.50"	19 5/8	82.00
H4647-14	2 1/2" x 14'	14' 8"	0.16"	1.50"	21 3/4	90.00
H4647-16	2 1/2" x 16'	17' 1"	0.16"	1.50"	27	114.00
H4647-18	2 1/2" x 8'	8' 8"	0.16"	1.50"	15 3/8	62.00
H4645-8	1 1/2" x 8'	8' 8"	0.36"	2.00"	8 3/4	55.00
H4645-10	1 1/2" x 10'	10' 8"	0.36"	2.00"	9 1/4	60.00

✓LINEMEN'S PREFERENCE (LP) — Recommended by Chance Hot Line Demonstrators.

CHANCE LEVER TYPE WIRE CUTTERS



Lightweight with heat treated aluminum alloy fittings. Leverage 4 to 1. Blades are forged steel. Poles are tested to 100,000 volts per foot. Lever pull rod has high dielectric strength.

Cat. No.	Pole Size	Cutting Max.	Wt. Lbs.	Each
H1871-4	1 1/4" x 4' 6"	2/0 Weatherproof Sol.	6 1/4	\$34.00
H1871-6*	1 1/4" x 6' 6"	Cu. or 1/0 ACSR	6 3/4	37.50
H1873-4	1 1/2" x 4' 7"	2/0 Weatherproof Str. Cu.	9 1/4	41.00
H1873-6*	1 1/2" x 6' 7"	4/0 Bare Str. or 4/0 ACSR	9 3/4	48.00
H1875		Head only	1/2	25.00
H1875-4	1 1/2" x 4' 9"	4/0 Weatherproof Sol.		46.25
H1875-6*	1 1/2" x 6' 9"	Cu. or 250 MCM Cu	1/2	52.25

*Linemen's Preference (LP) — Recommended by Chance Hot Line Tool Demonstrators.

CHANCE ROPE SNUBBING BRACKETS

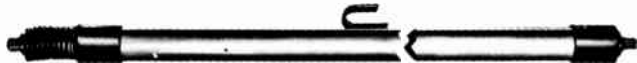
For snubbing hand lines or hitching blocks at base of pole. Each ring has 1000 pound working load. Attached with chain tightener.

Heat treated aluminum alloy with high strength steel chain chain.

Cat. No.	Description	Wt. Lbs.	Each
M1846	Bracket and Block Hitch with Chain Tighteners and 36" Chain	7	\$19.50
M1847	18" Extension Chain for Tightener	1 5/8	4.50

CHANCE INSULATED HAND TOOLS

Poles Tested to 100,000 Volts Per Foot
FLEXIBLE WRENCHES



The flexibility of these wrenches permits application of nuts on hardware at varied angles. They may be provided with or without ratchet handle. Socket plugs are 1/2" square. Pole diameter, 1 1/2".

Cat. No.	Description	Pole Lgth. Feet	Approx. Wt., Lbs. & Oz.	Each
H1891-2	With Flexible and Fixed Plugs	6	5 8	\$34.00
H1891-3	With Flexible and Fixed Plugs	8	6 10	38.25
H1891-4	Mounted Ratchet Wrench	6	5 8	34.00
H1891-5*	With Flexible Plug and Univ. Head	6	5 10	35.00
H1891-6	With Flexible Plug and Univ. Head	8	6 12	39.25
H1891-7	With Flexible Plug and Ratchet Wrench with Reversible Plug	6	6 10	43.00
H-1891-8	With Flexible Plug and Ratchet Wrench with Reversible Plug	8	7 12	47.25
66780	Ratchet Wrench	1	8 8	5.50

DEEP THROAT SOCKETS

Size In.	Double Broached — Square			Single Broached — Hex		
	Cat. No.	Lgth. In.	Wt. Oz. Each	Cat. No.	Lgth. In.	Wt. Oz. Each
3/8	H4766-12	3	3 1/2			
7/16	H4766-13	3	3 1/2			
1/2	H4766-14	3 1/4	5 1/2	H4766	3 1/4	5
5/16	H4766-15	3 1/4	5	H4766-1	3 1/4	5
5/8	H4766-16	3 1/4	5 1/2	3.00	H4766-2	3 1/4
1 1/16	H4766-17	3 1/4	5	3.00	H4766-3	3 1/4
3/4	H4766-18	3 1/4	6 1/2	3.00	H4766-4	3 1/4
13/16	H4766-19	3 1/4	6	3.00	H4766-5	3 1/4
7/8	H4766-20	3 1/2	8 1/2	3.25	H4766-6	3 1/2
1 1/16	H4766-21	3 1/2	8	3.25	H4766-7	3 1/2
1	H4766-22	3 1/2	10	3.25	H4766-8	3 1/2
1 1/8	H4766-23	3 1/2	9	3.25	H4766-9	3 1/2
1 1/4	H4766-24	3 1/2	10	3.25	H4766-10	3 1/2
1 1/2	H4766-25	3 1/2	12 1/2	3.25	H4766-11	3 1/2

ALL ANGLE COG WRENCH



Adjusts nuts easily in any position. Thumb lever on side of pole controls the position of the head until socket is fitted over the nut to be tightened. A cog wheel arrangement permits tightening nut at any position within 140° angle by simply turning the pole. Cogs are case hardened steel. Wrench fits any standard socket with 1/2" square recess.

Cat. No.	Description	Approx. Wt.	Each
H1892-1*	Mounted on 1 1/2" x 6' pole	2 lbs., 14 oz.	\$53.00

*Linemen's Preference (LP) — Recommended by Chance Hot Line Tool Demonstrators.

AMERTONG

FOR WESTON MODEL 633 AMMETER



For holding and manipulating ammeter when taking readings on or near energized conductors where insulation is necessary or for reaching inaccessible points. Holds ammeter at 120° angle for easy reading. May be converted to fit other ammeters.

Cat. No.	Pole Size	Wt. Lbs.	Each
H1968-4	1 1/4" x 4'3"	3 1/2	\$26.50
H1968-6	1 1/4" x 6'3"	4	32.25
H1968-8	1 1/4" x 8'3"	4 1/2	38.00

CHANCE STRAIN LINK STICK



For lifting or helping to lift heavy conductor loads on high voltage suspension or deadend insulator changes. Butt ring for attaching rope blocks. Rounded jaws to prevent scarring conductors. Aluminum fitted; voltage tested.

Cat. No.	Pole Dia. & Lgth.	Jaw Opening		Max. Work Load, Lbs.	Approx. Wt., Lbs.	Each
		Min.	Max.			
H4715-1	1 1/4" x 2'	.22	.75	3500	3 3/4	\$22.00
✓H4715-2	1 1/4" x 4'	.22	.75	3500	4 1/2	26.00
H4716-1	1 1/2" x 2'	.44	1.06	5500	4 3/4	27.00
H4716-2	1 1/2" x 4'	.44	1.06	5500	5 3/4	32.00
H4716-3	1 1/2" x 6'	.44	1.06	5500	6 3/4	37.00
H4716-4	1 1/2" x 8'	.44	1.06	5500	7 3/4	42.00
H4716-5	1 1/2" x 10'	.44	1.06	5500	8 3/4	47.00
H4716-6	1 1/2" x 12'	.44	1.06	5500	9 3/4	52.00
H4716 ..	1 1/2" x 4'	.72	1.50	6500	9 7/8	42.00
H4717-1	1 1/2" x 6'	.72	1.50	6500	11 7/8	47.00
H4718 ..	1 1/2" x 4'	1.00	2.50	6500	11 1/8	47.00
✓H4718-1	1 1/2" x 6'	1.00	2.50	6500	13	52.00
H4718-2	1 1/2" x 8'	1.00	2.50	6500	15	57.00
H4718-3	1 1/2" x 10'	1.00	2.50	6500	17	62.00
H4718-4	1 1/2" x 12'	1.00	2.50	6500	19	67.00

✓LINEMEN'S PREFERENCE (LP) — Recommended by Chance H. L. T. Demonstrators.

CHANCE ROLLER LINK STICKS



Used to spread and hold conductors aside at mid-span when locating poles.

Also useful for measuring span clearances to ground. Hook opening, 1 1/4". Will roll over maximum wire size of 605 MCM ACSR. Working load, 1000 lbs.

Cat. No.	Pole Dia. & Overall Length	Approx. Wt. Lbs.	Each
H4714-4*	1 1/4" x 4'10"	3 3/4	\$30.00
H4714-6	1 1/4" x 6'10"	4 1/4	33.00
H4714-12*	1 1/4" x 12'10"	5 3/4	43.50

*Recommended by Chance H. L. T. Demonstrators.

CHANCE WIRE-HOLDING STICKS

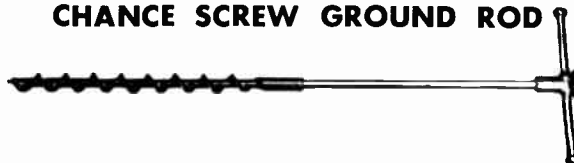


Used on or around energized lines for forming, bending, and positioning jumper wires; for holding conductors during splicing operations; for pulling tie wires tight before tying. Many other similar and related applications, and can often be used on jobs usually done by hand. Strong, tool will bend 4/0 ACSR. Gripper has eye. Can handle No. 8 solid copper through 4/0 ACSR.

Tested to 100,000 volts per foot. Aluminum and bronze castings. 1 1/2" diameter.

Cat. No.	Pole Dia. & Overall Length	Conductor Capacity	Approx. Wt. Lbs.	Each
H1960-6	1 1/4" x 6'5"	.162" to 1"	6	\$41.25
H1960-8	1 1/4" x 8'5"	.162" to 1"	6 3/4	46.75

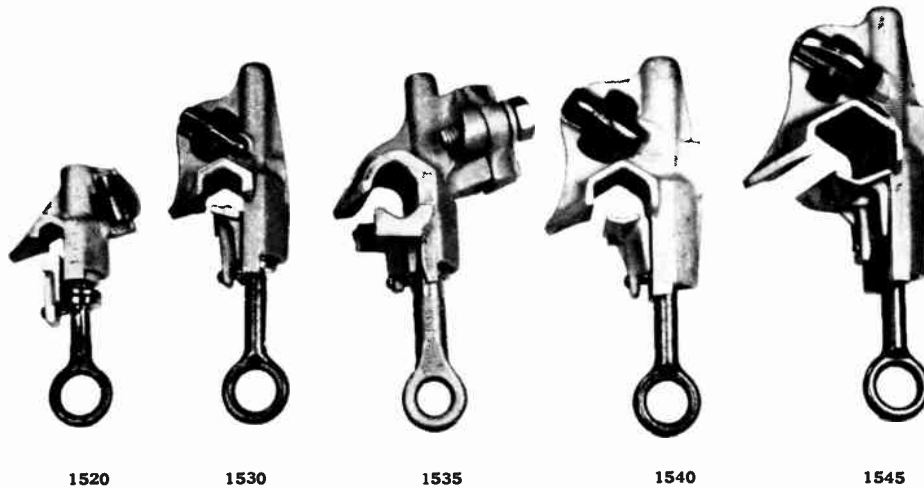
CHANCE SCREW GROUND ROD



High-conductivity, copper-clad rod.

Cat. No.	Rod Dia.	Screw Length	Overall Length	Wt. Lbs.	Each
G3370	.590"	14"	6'	15	\$18.50

CHANCE HOT LINE CLAMPS



Provide secure, high-conductivity connections. Current carrying capacity is in proportion to that of the maximum jumper wire for which each clamp is designed.

Protected Thread "P.C." Clamps: Have protective hood over all working parts and include a sealed waterproof thread chamber filled with corrosion-resistant compound. Clamps may be easily removed from the line after long periods of exposure and use.

Wide jaws assure good current distribution. Secure contact assured by locking spring. Jumper terminal above the conductor balances the eye screw to alleviate torsional stress.

"P.C." Clamps are available with contact surfaces pre-coated with Chance z.l.n. 100 Electrical Contact Aid. Each clamp is sealed in a transparent plastic bag to protect it from damage and foreign matter.

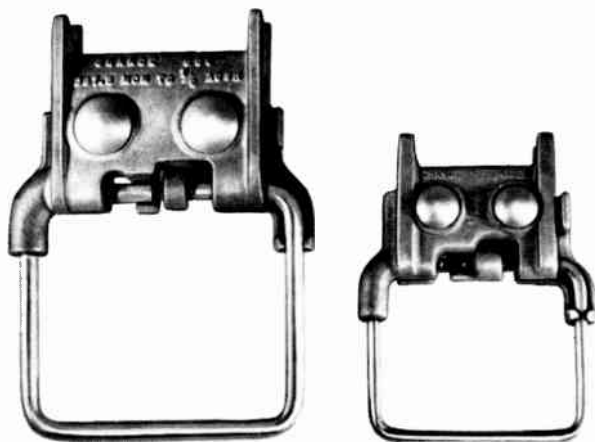
Clamps with "AA" suffix have heat treated aluminum bodies for aluminum to aluminum connections, "AC" are for aluminum to copper connections, "AGP" have a high density Fortified plating for general purpose connections. Clamps with "CC" suffix are copper alloy bodies for copper to copper connections, "GP" have a Fortified plating for general purpose connections.

Cat. No.*	Dia., In.	Main Line Range Size, AWG or MCM	Dia., In.	Tap Line Range Size, AWG or MCM	Approx. Wt. Per 100 (Lbs.)	Each
S1520AA	.414 to .128	1/0 to 6 ACSR	.398 to .128	1/0 to 6 ACSR	40	\$1.61
S1520AC	.414 to .128	1/0 to 6 ACSR	.398 to .128	1/0 Str. to 8 Sol. Cu.	44	1.67
S1520AGP	.414 to .128	1/0 to 6 ACSR	.398 to .128	1/0 to 6 ACSR	42	1.72
S1520CC	.414 to .128	2/0 Str. to 8 Sol. Cu.	.398 to .128	1/0 to 8 Sol. Cu.	69	1.64
S1520GP	.414 to .128	2/0 Str. to 8 Sol. Cu.	.398 to .128	1/0 to 6 ACSR	71	1.77
S1530AA	.745 to .162	336.4 to 6 ACSR	.547 to .162	3/0 to 6 ACSR	68	2.05
S1530AC	.745 to .162	336.4 to 6 ACSR	.547 to .162	4/0 Str. to 6 Sol. Cu.	72	2.10
S1530AGP	.745 to .162	336.4 to 6 ACSR	.547 to .162	3/0 - 6 ACSR	70	2.23
S1530CC	.745 to .162	400 Str. to 6 Sol. Cu.	.547 to .162	4/0 - 6 Cu.	132	2.45
S1530GP	.745 to .162	400 Str. to 6 Sol. Cu.	.547 to .162	4/0 Str. to 6 Sol. Cu.	136	2.66
S1535AA	.806 to .250	397.5 to 4 ACSR	.806 to .204	3/0 - 6 ACSR	70	3.27
S1535AGP	.806 to .250	397.5 to 4 ACSR	.806 to .204	No. 4 Str. Al.	71	3.51
S1540AA	1.031 to .502	266.8 w/Armor to 4 ACSR w/Armor**	.703 to .198	397.5 to 4 Sol. Cu.	110	3.43
S1540AC	1.031 to .502	266.8 w/Armor to 4 ACSR w/Armor**	.703 to .198	266.8 to 6 ACSR	118	3.59
S1540AGP	1.031 to .502	266.8 w/Armor to 4 ACSR w/Armor**	.703 to .198	300 Str. to 4 Sol. Cu.	114	3.82
S1540CC	1.031 to .502	300 Str. w/Armor to 2 Str. Cu. w/Armor	.703 to .198	266.8 - 6 ACSR	208	4.74
S1540GP	1.031 to .502	300 Str. w/Armor to 2 Str. Cu. w/Armor	.703 to .198	300 - 4 Sol. Cu.	212	5.13
S1545AA	1.490 to .939	556.5 w/Armor to 4 ACSR w/Armor**	.703 to .198	300 Str. to 4 Sol. Cu.	130	6.24
S1545AGP	1.490 to .939	556.5 w/Armor to 4/0 ACSR w/Armor**	.703 to .198	266.8 - 6 ACSR	135	6.90
S1545CC	1.490 to .939	500 Str. w/Armor to 300 Str. Cu. w/Armor	.703 to .198	300 - 4 Sol. Cu.	255	7.80
S1545GP	1.490 to .939	500 Str. w/Armor to 300 Str. Cu. w/Armor	.703 to .198	4 Sol. Cu.	260	9.05

*For Packaged Clamps add prefix "P" in place of "S".

**Straight or Preformed Armor.

CHANCE ALUMINUM BAIL CLAMPS



850 Series

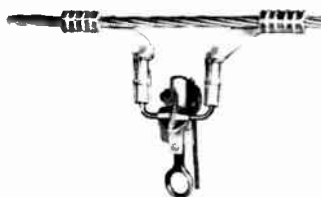
820 Series

The contoured main line contact securely grips the conductor. This adds to the resilience of the gripping action and protects against possible conductor cold flow due to line tension, ice loading or surge effects. Clamping bolts secure bail ends, as well as the conductor, to prevent loosening under thermal or vibrational effects.

Installation is facilitated by the snap-on action of the Chance Bail Clamp. The clamp is suspended above the line and snapped on using a Grip-All stick. It is then swung down and the Grip-All stick removed. The clamp holds itself on the line, enabling the lineman to quickly and easily tighten the bolts.

Cat. No.	Conductor Range (ACSR)	Hardware	Ship. Wt. Lbs. Per 100	Each
BC-820	1/0 - 6	Hexnuts	92	\$ 1.74
BC-820-AGP	1/0 - 6	Hexnuts	93	2.00
BC-823	1/0 - 6	Eyenuits	94	2.05
BC-823-AGP	1/0 - 6	Eyenuits	95	2.31
BC-852	397.5 - 1/0	Hexnuts	206	3.17
BC-852-AGP	397.5 - 1/0	Hexnuts	207	3.48
BC-854	397.5 - 1/0	Eyenuits	209	3.49
BC-854-AGP	397.5 - 1/0	Eyenuits	210	3.80

CHANCE COMPRESSION BAIL CLAMPS



Provides a low cost permanent stirrup for installing tap clamps or other types of junior conductor. Eliminates conductor damage during installation and removal of the clamp, any mechanical damage or arcing takes place on the bail.

Cat. No.	Conductor Size (AWG or ACSR)	Type Bail	Ship. Wt. Lbs. Per 100	Each
CB4-4CP	No. 4	No. 4 Copper	25	\$.78
CB2-4CP	No. 2	No. 4 Copper	25	.78
CB10-4CP	1/0	No. 4 Copper	29	1.00
CB20-4CP	2/0	No. 4 Copper	29	1.00
CB30-4CP	3/0	No. 4 Copper	33	1.07
CB40-4CP	4/0	No. 4 Copper	36	1.13
CB10-2CP	1/0	No. 2 Copper	36	1.07
CB20-2CP	2/0	No. 2 Copper	36	1.07
CB30-2CP	3/0	No. 2 Copper	40	1.14
CB40-2CP	4/0	No. 2 Copper	43	1.20

CHANCE ELECTRICAL CONTACT AID



z.l.n. 100 Electrical Contact Aid was developed by the A. B. Chance Co. to improve and stabilize aluminum copper, and bi-metal connections. This high quality compound guards against galvanic corrosion and inhibits oxidation when used with all types of connectors.

z.l.n. 100 is available in handy 4 and 8 ounce plastic squeeze bottles. The compound spreads evenly and smoothly because the squeeze-type bottle permits a controlled flow, eliminating waste and mess. Each bottle is refillable and equipped with a cap to seal off the compound when not in use.

Cat. No.	Description	Wt. Lbs.	Each
M1920-1	1-Quart Can	2 3/4	\$2.75
M1920-2	1-Gallon Can	11	9.50
M1920-3	8-Ounce Bottle	3/4	.93
M1920-4	4-Ounce Bottle	1/2	.75

CHANCE MASTIC CONNECTOR COVERS



Seal-A-Conn



Super Seal-A-Conn

Seal-A-Conn is designed to seal out moisture and protect the electrical connection from erosion, dirt accumulation and chemical attack. It provides optimum protection against corrosion and galvanic action on application such as distribution taps, transformer terminals, service connectors, ground rod clamps and wedge clamps. The Mylar backing keeps Seal-A-Conn from sticking on gloves as it is formed around the connection.

Regular Seal-A-Conn can be applied at temperatures within a range of +32° to 150° F. Super Seal-A-Conn is used in colder climates and can be applied at temperatures of +10° to 150° F. and will retain adhesion as low as -50° F.

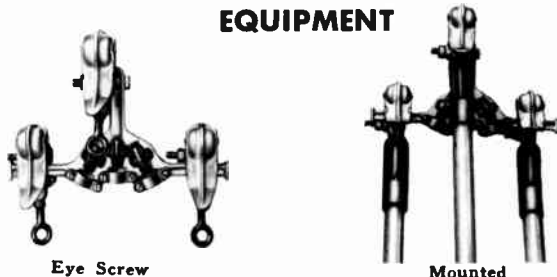
SEAL-A-CONN

Cat. No.	Description	Wt. Lbs. Per Box	Each
M1930-1	Box of 20, 3" x 4" Pads	1 1/4	\$ 1.50
M1930-2	Box of 20, 4" x 4" Pads	1 3/4	2.10
M1930-3	Box of 20, 6" x 4" Pads	2 3/4	3.50
M1930-10	Box of 10' x 4" Roll	3	3.50
M1930-30	Dispenser Box of 30' x 4" Roll	9 1/2	7.00
M1932-30	Dispenser Box of 30' x 7" Roll	17	13.75

SUPER SEAL-A-CONN

M1931-1	Box of 20, 4" x 4" Pads	1 3/4	2.60
M1931-30	Dispenser Box of 30' x 4" Roll	9 3/4	9.60

CHANCE TEMPORARY GROUNDING EQUIPMENT



This series of clamps can be easily applied by "snapping" on to the conductor. The spring-action of the duck-bill jaws make an immediate pressure contact on the conductor. Snap-On Clamps are available mounted on 1 1/4" x 6' Epoxiglas® poles. Unmounted clamps can be installed with a Grip-All or Positive Grip Clamp Stick.

Single Clamps, Small Series

Cat. No.	Description	Jumper Max.	Jumper Min.	Approx. Wt. Lbs.	Each
Main Line: Max. — 1000 MCM Cu. or 900 MCM (1.162"); Min. — 6 Sol. Cu.					

G3622-1	Eyescrew	4/0 Grd.	2 Grd.	1 1/2	\$ 7.00
HG3706-1	Mounted	Cable*	Cable*	3 1/8	19.00

3-Cluster Sets, Small Series

Main Line: Max. — 1000 MCM Cu. or 900 MCM (1.162"); Min. — 6 Sol. Cu.

G3803	Eyescrew	4/0 Grd.	2 Grd.	6 5/8	28.00
HG3901	Mounted	Cable*	Cable*	12 7/8	63.50

Single Clamps, Large Series

Main Line: Max. — 2 1/2" Dia.; Min. — 3/4" Dia.

G3623	Eyescrew	300 MCM*	4"	2 1/4	13.50
HG3623-1	Mounted	(3/8" Dia.)	(3/8" Dia.)	4 1/4	23.00

*With ferrule.

Recommended installation torque — 300 inch lbs. — line and tap.

TOWER GROUND CLAMPS



A natural cleaning action is provided to remove paint or oxides when the T-handle is screwed into the under side of the structural member. By rotating the terminal adapter a scraper contact cleans the top side of the structural member thus assuring good contact points on both sides. The front retainer insures that the clamp will not be thrown due to magnetic forces. Retainer rotates 90° to hold 2" through 4" structural angles or any I-beam or channel structure.

Cat. No.	Description	Wt. Lbs.	Each
Range: Angles and Beam Flanges Up to 1 1/2" Thick			
G3364-02SJ	2 Grd. Cable Ferrule	4	\$22.00
G3364-10SJ	1/0 Grd. Cable Ferrule	4	22.00
G3364-20SJ	2/0 Grd. Cable Ferrule	4	22.00
G3364-40SJ	4/0 Grd. Cable Ferrule	4	22.00
G3364-SJ	No Ferrule	3 3/4	20.00
G3364-1SJ	Replacement Scraper Contact	4 1/2	1.25

FLAT BUS BAR CLAMPS



Designed for use on flat or round bus bars. Wide jaw opening permits their use on 1/2" x 4" flat bus bars or 2" diameter round bus bars. Jaws will close to take a No. 6 wire. Maximum jumper contact is 4/0 grounding cable with ferrule and minimum is No. 2 grounding cable with ferrule.

Cat. No.	Description	Wt. Lbs.	Each
G3368	Eyescrew, Aluminum	2 1/2	\$12.50
HG3368-1	Epoxiglas Mounted	4 1/4	27.00

CHANCE CLAMPS

ALL ANGLE GROUNDING CLAMPS



The jaws of the clamp pivot approximately 75° left or right so that it can be installed in substations or tower deadends where the lineman cannot get into position to install grounds in the normal manner.

Small, sharp serrations are on the jaw inserts so that conductor surfaces are cleaned as the clamp is rotated on the conductor.

Cat. No.	Main Conductor		Ground Cable		Each
	Max.	Min.	Max.	Min.	
Clamp With Eyescrew					
G4228-10SJ	2 1/2 IPS	2 Cu.	4/0*	#2	\$32.00
Clamp Mounted on 1 1/4" x 6' Epoxiglas Pole					
HG4228-16SJ	2 1/2 IPS	2 Cu.	4/0	#2	45.50
Replacement Jaw Assembly**					
G4228-101SJ					4.50

*With Ferrule.

**One set of jaw inserts with hardware.

FLAT-FACE GROUNDING CLAMP



T-handle or eyescrew, each clamp is provided with a cup-point set screw for applications on painted or rusted surfaces where cleaning is impractical or undesirable. Clamp is not effective on Cor-Ten steel. Conductor or structural range is: flanges and flat or square bus, 1 1/2" to 1/8"; tube, 1 1/2" to 1/4".

Tap: 2 Grd. Cable with Ferrule to 4/0 Grd. Cable with Ferrule (or complete lug)*

Cat. No.	Type	Body	Wt. Lbs.	Each
G3363-1	Eyescrew	Cu.	2 1/2	\$9.00
G3363-2	T-Handle	Cu.	2 1/8	9.25
G3363-3SJ	Eyescrew	Al.	1 7/8	9.50
G3363-4SJ	T-Handle	Al.	1 5/8	9.75
G3363-101SJ	Replacement Insert Jaws		1/8	2.10

*A compression lug with 3/8" diameter hole may be used in place of the pressure screw terminals.

COMBINATION CLAMPS



These clamps securely grip either round or flat surfaces. They will accommodate bars up to 3/4" diameter on the round side and 5/8" thickness on the flat side. Upper jaws have sharp serrated edges to provide a low resistance connection. Set screws which project from the lower jaws bite through rust and painted surfaces, but will not satisfactorily penetrate Cor-Ten.

Durable clamp bodies are made of high strength bronze. Jumper Contact: No. 2 Grd. cable with ferrule.

Cat. No.	Description	Flat	Round	Wt. Lbs.	Each
G3620-1	Eyescrew	5/8"	3/4"	1	\$ 7.40
G3620-2	T-Handle	5/8"	3/4"	1	7.50

SUBSTATION BUS BAR CLAMPS

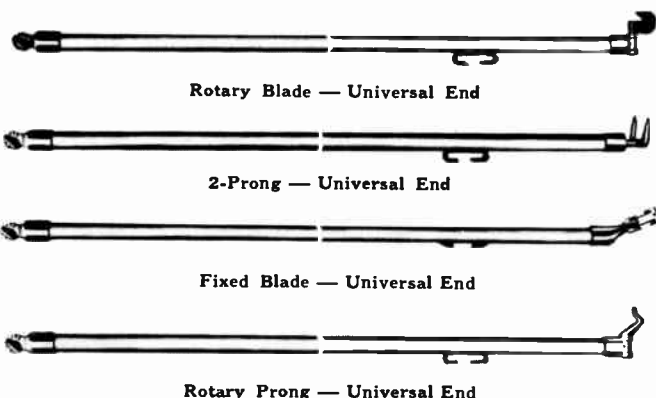


These clamps with removable inserts are adaptable to various sized bus bars. Available unmounted for use with a Grip-All Clamp Stick or mounted on 1 1/4" x 6' insulated pole, both bronze and aluminum-bodied clamps have high-strength bronze eyescrews and bronze terminals. Terminals take grounding cable from 4/0 with ferrule to No. 2 Copper with ferrule.

Bus Size: Max. — 2 1/2" O.D.; min. — No. 4 Str. Cu.

Cat. No.	Description	Wt. Lbs.	Each
G3367-1	Bronze, Unmounted	5 5/8	\$21.00
G3367-2	Aluminum, Unmounted	2 3/8	20.00
HG3367-3	Bronze, Mtd. on Epoxiglas Pole	7 1/2	38.00
HG3367-4	Alum., Mtd. on Epoxiglas Pole	4 1/4	36.00

CHANCE HOT LINE TIE STICKS



Four Tie Heads Available:

Chance Hot Line Tie Sticks are fitted with the tie-heads shown at the top of the page. Each tie stick has certain design features that make it desirable for different linemen. Rotary Prong Tie Sticks, most linemen find, are speedier and easier to operate than a fixed prong for handling looped ties.

Two-Prong Tie Sticks are preferred by many linemen for handling hot ties with loops. Fixed Blade Tie Sticks are particularly suited for undoing close ties that do not have looped ends. Sharp notched blades pry tight ties loose.

Rotary Blade Tie Sticks have a swivel action that permits greater freedom of movement than the fixed-blade type.

EPOXIGLAS® POLES

Epoxiglas Hot Line Tie Sticks are made for maximum safety; these poles are invulnerable to interior moisture, as well as being strong, durable and virtually maintenance-free.

Cat. No.	Pole Dia.	Head	Tie Sticks End	Overall Length	Approx. Weight Lbs.	Each
H1855-1	1 1/4"	2-Prong	Plastic Cap	8' 3"	3 1/4	\$20.75
H1855-2	1 1/4"	Fixed Blade	Plastic Cap	8' 3"	3 1/4	26.00
H1855-12	1 1/4"	Rotary Prong	Plastic Cap	8' 1"	3	23.00
H1855-19	1 1/4"	Rotary Prong	Universal	8' 3"	3	28.50
H1855-20	1 1/4"	2-Prong	Universal	8' 4"	4	25.00
H1855-24	1 1/4"	Rotary Blade	Plastic Cap	8' 3"	3 1/4	25.75
✓H1855-25	1 1/4"	Rotary Prong	Rotary Blade	8' 2"	3 1/2	34.50
✓H1855-26	1 1/4"	Rotary Blade	Universal	8' 3"	3 1/4	28.50

✓LINEMEN'S PREFERENCE (LP) — Recommended by Chance H. L. T. Demonstrators

CHANCE UNIVERSAL POLES



Chance Universal Poles are made for use with universal tools. The splined heads of universal poles interlock with the splined fittings on universal tools . . . to form rigid connections.

Most universal tools can be adjusted at angles up to 90° or more on each side of the pole head. Thus, a tool can be adjusted on the pole to suit the particular job.

Cat. No.	Description	Pole Dia.	Overall Length	Weight	Each
H1760	Universal Pole with One Head Tie Wire Assistant	1 1/4"	8' 2"	3 lbs.	\$19.00
H1760-1	Universal Pole, with One Head	1 1/4"	6' 1"	2 1/2 lbs.	15.25
H1760-2	Spliced Universal Pole, with One Head Tie Wire Assistant	1 1/4"	4' 1" +	5 lbs.	26.00
✓H1760-4	Universal Pole, with Two Heads Tie Wire Assistant	1 1/4"	8' 3"	3 3/4 lbs.	23.00
H1760-6	Spliced Universal Pole, with Two Heads, Tie Wire Assistant	1 1/4"	4' 1" +	5 3/4 lbs.	29.00
H1760-10	Universal Pole, with Two Heads	1 1/4"	10' 3"	4 lbs.	27.00
H1760-12	Universal Pole, with Two Heads	1 1/4"	12' 3"	4 1/2 lbs.	30.75
H1761	Universal Storm Tool, with Two Skirts	1 1/4"	8' 2"	3 1/4 lbs.	23.00
H1761-1	Universal Storm Tool, with Three Skirts	1 1/4"	8' 2"	3 1/4 lbs.	24.00
H1770	Hinged Universal Pole, with One Head	1 1/4"	8' 2"	4 1/2 lbs.	26.50
H1790-8	Universal Pole, with Two Heads, Pole Hanger	1 1/2"	8' 3"	6 lbs.	27.25
✓H1790-10	Universal Pole, with Two Heads	1 1/2"	10' 3"	6 lbs.	31.75
H1790-12	Universal Pole, with Two Heads	1 1/2"	12' 3"	8 lbs.	35.75
H4455	Universal Pole Head	1 1/4"		9 oz.	3.00
H4455A	Universal Pole Head	1 1/2"		14 oz.	3.50
H4455B	Universal Pole Head with Tool Hanger	1 1/4"		10 oz.	3.50

✓LINEMEN'S PREFERENCE (LP) — Recommended by Chance H. L. T. Demonstrators

CHANCE CHAIN HOISTS

Chance Hoists are made in One-Ton and Two-Ton models. Both models give 5 1/2 feet of lift. The 14-pound One-Ton Hoist, proof-tested to 3,000 pounds, is rated to lift loads

up to and including 2,000 pounds. The 28-pound Two-Ton Hoist, proof-tested to 6,000 pounds, is rated to lift loads up to and including 4,000 pounds.

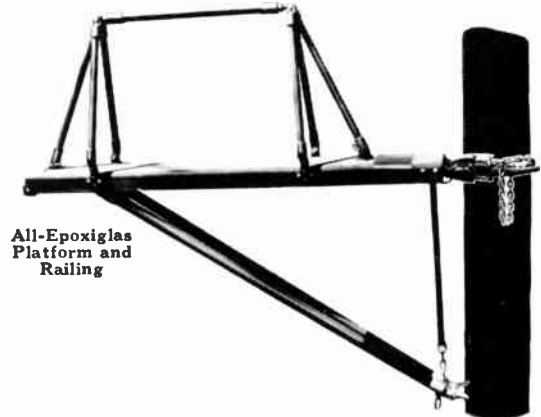
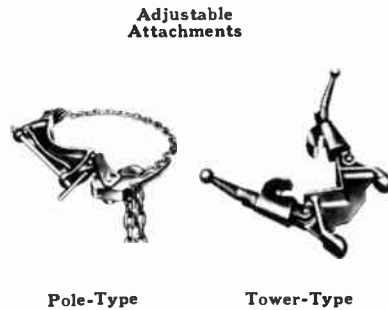
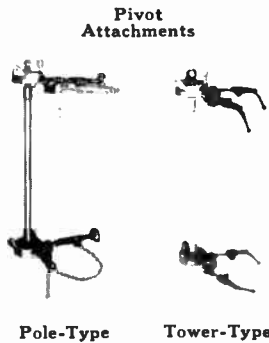
Cat. No.	Description	Approx. Wt. Lbs.	Each	Cat. No.	Description	Approx. Wt. Lbs.	Each
3010	One-Ton Hoist: Std. Hooks — Both Ends	14	\$61.00	4010	Two-Ton Hoist: Std. Hooks — Both Ends	28	97.50
3010S	One-Ton Hoist: Std. Hook — Housing End; Safety Hook — Chain End	14 1/2	62.00	4011	Two-Ton Hoist: Std. Hook — Housing End; Safety Hook — Chain End	28 1/2	98.50
3011S	One-Ton Hoist: Safety Hooks — Both Ends	14 1/4	64.00	4012	Two-Ton Hoist: Safety Hooks — Both Ends	28 1/4	99.50



CHANCE EPOXIGLAS® PLATFORMS

Chance Epoxiglas Platforms were designed to give utility companies a superior product with greater dielectric strength. Adjustable models have a nylon strap instead of chain to

secure the bottom twin braces, avoiding possible short circuiting to secondaries. Epoxiglas Platforms are 10" wide and have a load rating of 800 pounds.

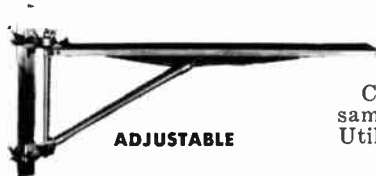


Both the adjustable and the Pivot-Type platforms have the same boards and receiving attachments. Made of high-strength aluminum and bronze alloys, these attachments are interchangeable on all Chance Platform boards. There are two tower leg attachments and one pole attachment for both adjustable and pivot-type platforms.

Platform railings provide additional security for linemen working on a platform, especially when necessary to work from an off-balance position. Rope railing is constructed of polypropylene rope, Epoxiglas poles, rope blocks and bronze alloy castings. The all-Epoxiglas railing, a superior design, is constructed to add structural strength to the platform while giving body support.

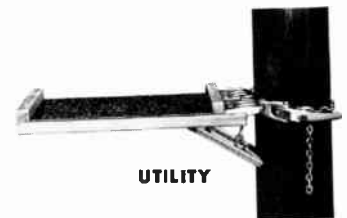
Cat. No.	Description	Length	Approx. Wt. Lbs.	Each
H4964-30	Adjustable Pole-Type, Lever Binder	30"	37	\$ 90.00
H4964-30W	Adjustable Pole-Type, Wheel Binder	30"	39	95.00
H4964-42	Adjustable Pole-Type, Lever Binder	42"	42	105.00
H4964-42W	Adjustable Pole-Type, Wheel Binder	42"	44	110.00
H4964-4	Adjustable Pole-Type, Lever Binder	4'	47	113.00
H4964-4W*	Adjustable Pole-Type, Wheel Binder	4'	49	118.00
H4965-4	Pivot Pole-Type, Lever Binder	4'	67	155.00
H4965-4W*	Pivot Pole-Type, Wheel Binder	4'	69	159.00
H4964	Epoxiglas Tripod Railing for the Above	-----	11	28.00
H4964-6	Adjustable Pole-Type, Lever Binder	6'	54	150.00
H4964-6W*	Adjustable Pole-Type, Wheel Binder	6'	56	155.00
H4965-6	Pivot Pole-Type, Lever Binder	6'	76	204.00
H4965-6W*	Pivot Pole-Type, Wheel Binder	6'	78	210.00
H4964-8	Adjustable Pole-Type, Lever Binder	8'	63	173.00
H4964-8W*	Adjustable Pole-Type, Wheel Binder	8'	65	178.00
H4965-8	Pivot Pole-Type, Lever Binder	8'	87	220.00
H4965-8W*	Pivot Pole-Type, Wheel Binder	8'	87	225.00
H4964-35	Epoxiglas Railing for 6' Platforms Above	-----	25	67.50
H4964-45	Epoxiglas Railing for 8' Platforms Above	-----	27	72.00

*If Tailnut Binder is desired instead of Wheel Binder, Change Suffix "W" to "T".



WOOD PLATFORMS

Chance wood platforms are constructed to adapt to the same mounting attachments as Epoxiglas platforms, except Utility, which has its own mounting bracket.



Cat. No.	Description	Length	Rated Working Load Wt. Lbs.	Approx. Wt. Lbs.	Each
M4950	Utility Platform with Lever Tightener	30"	750	20	\$50.00
M4950W	Utility Platform with Wheel Tightener	30"	750	22	51.00
M4950-42	Utility Platform with Lever Tightener	42"	450	22	55.00
M4950-42W	Utility Platform with Wheel Tightener	42"	450	25	56.00
M4960-30	Utility Platform with Screw Tightener	30"	750	23	50.00
M4960-42	Utility Platform with Screw Tightener	42"	450	24	55.00

Cat. No.	Description	Length	Approx. Wt. Lbs.	Each
M4901	Pole-Type Pivot Platform with H4965-13 Attachment	6'	68	\$150.00
M4901-W	Pole-Type Pivot Platform with H4965-13W Attachment	6'	70	153.00
M4901-4	Pole-Type Pivot Platform with H4965-13 Attachment	8'	78	162.00
M4901-4W	Pole-Type Pivot Platform with H4965-13W Attachment	8'	80	165.00
M4901-1	Tower-Type Pivot Platform with H4965-15 Attachment	6'	70	139.00
M4901-5	Tower-Type Pivot Platform with H4965-15 Attachment	8'	78	152.00
M4901-2	Pole-Type Adjustable Platform, with M4901-10 Mounting Attachment	6'	44	95.00
M4901-2W	Pole-Type Adjustable Platform, with M4901-10W Mounting Attachment	6'	46	97.00
M4901-3	Pole-Type Adjustable Platform, with M4901-10 Mounting Attachment	8'	55	108.00
M4901-3W	Pole-Type Adjustable Platform, with M4901-10W Mounting Attachment	8'	57	111.00
M4901-6	Tower-Type Adjustable Platform, with M4901-11 Mounting Attachment	6'	45	87.00
M4901-7	Tower-Type Adjustable Platform, with M4901-11 Mounting Attachment	8'	58	98.00

*Fits up to 4" x 4" Tower Legs.

CHANCE INSULATED JUMPER CLAMPS

7.8 and 15 KV

Chance Insulated Jumper Clamps are used for by-passing working areas and equipment under repair, making temporary connections during storm trouble, or handling other emergency jobs.

Semi-elliptical shape contacts improve contact with wide range of conductor sizes.

Tough polyethylene insulation for impact strength and durability, high electrical insulation values, resistance to weathering.

Polyethylene has a wax-like surface which will not absorb moisture.

Locked-in-place compression terminals cannot vibrate loose from clamp body. Cables installed with either .840 compression die or Nico-press 88 tool with H5 head.

Performance tests: Continuous current 400 amps. with 4/0 copper jumper. Surge current tests to 30,000 amps, 15 cycles. Corrosion and weatherometer tests for satisfactory resistance to corrosive and weathering influence.



7.8 KV — 400 Amp Capacity
Conductor Range: No. 6 (.162") to 336.4 ACSR (.721")

Cat. No.*	Description	Approx. Cont. Current, Amps**	Ribbed Handle (2 Clamps) Length	Approx. Wt. Lbs.	Each
G4758-02	2 Clamps for No. 2 Cable (5 & 15 KV)	200	5 5/8"	4 1/2	\$19.50
G4758-10	2 Clamps for No. 1/0 Cable (5 & 15 KV)	250	5 5/8"	4 1/2	19.50
G4758-20	2 Clamps for No. 2/0 Cable (5 KV)	300	5 5/8"	4 1/2	19.50
G4758-40	2 Clamps for No. 4/0 Cable (5 KV)	400	5 5/8"	4 1/2	19.50

7.8 KV — 200 Amp Capacity

Cat. No.	Description	Jumper Cable No.	Approx. Wt. Lbs.	Each
G4798-02	One Small Size Jumper Clamp and	2	7 5/8	\$50.00
G4798-10	One Load Pickup Tool	1/0	7 5/8	50.00
G4798-20	Plus 10 Ft. of 5 KV Jumper Cable, Assem.	2/0	7 5/8	50.00
G4798-40	Less Cable	4/0	7 5/8	50.00
G4799-02	One Small Size Jumper Clamp and	2	13 5/8	\$64.00
G4799-10	One Load Pickup Tool	1/0	15 5/8	70.00
G4799-20	Plus 10 Ft. of 5 KV Jumper Cable, Assem.	2/0	16 5/8	73.00
G4799-40	Less Cable	4/0	19 5/8	80.00

15 KV — 400 Amp Capacity
Conductor Range: No. 6 (.162") to 795 ACSR (1.108")

Handle Length Below Hand Guard: 8 3/8"

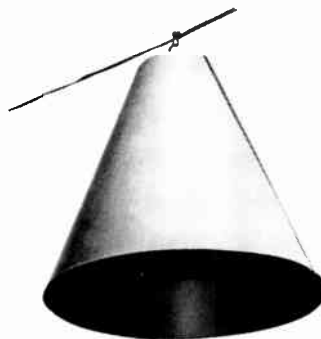
Cat. No.	Description	Approx. Wt. Lbs. (2 Clamps)	Each
G4775-02	2 Clamps for No. 2 Cable (5 & 15 KV)	9	\$27.00
G4775-10	2 Clamps for No. 1/0 Cable (5 & 15 KV)	9	27.00
G4775-20	2 Clamps for No. 2/0 Cable (5 & 15 KV)	9	27.00
G4775-40	2 Clamps for No. 4/0 Cable (5 & 15 KV)	9	27.00

Conductor Range: No. 6 (.162") to 477 ACSR (.883")

Handle Length Below Hand Guard: 7 1/2"

G4765-02	2 Clamps for No. 2 Cable (5 & 15 KV)	7	\$25.00
G4765-10	2 Clamps for No. 1/0 Cable (5 & 15 KV)	7	25.00
G4765-20	2 Clamps for No. 2/0 Cable (5 & 15 KV)	7	25.00
G4765-40	2 Clamps for No. 4/0 Cable (5 & 15 KV)	7	25.00

FORREST LINE MARKERS



Forrest Line Markers reduce overhead line crossing hazards.

Easily installed.

Assure maximum visibility.

Conical markers — 20", 23"* and 30"* diameters.

*Designed to meet FAA requirements.

Kept in motion by air currents, permanently impregnated with bright Aviation color, Forrest Line Markers help avert collisions by low-flying aircraft with lines crossing lakes, rivers, and gorges as well as with obstacles adjacent to airports and airlines. Also excellent to mark power lines over factory and mill yards where cranes and other high equipment operate.

Size, Inches	Shipping Information	Each
20 x 20	10 per ctn., 60 lbs., per ctn.	\$21.00
23 x 23	10 per ctn., 60 lbs., per ctn.	22.50
30 x 30	5 per ctn., 60 lbs., per ctn.	28.50

FOB: Dillard, Oregon

Forrest Line Marker Features:

Optimum Visibility

- Bright Aviation Orange Color.
- Conical design permits free movement of marker by air currents.
- Designed to meet FAA requirements.

No Maintenance

- Color impregnated fiberglass never needs painting.
- Non-corrosive metal connectors—stainless steel springs.
- Light weight:

- 20" cone and hardware — 6 lbs.
- 23" cone and hardware — 6 1/2 lbs.
- 30" cone and hardware — 10 lbs.

Long Life

- Solid color impregnated fiberglass and non-corrosive metals assure long life.

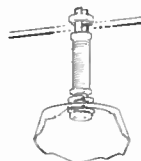
Economical

- Low initial cost.
- Low installation cost.
- Long, maintenance-free service life.

Easy Attachment to Line—Available in Two Types of Attachments



A. Standard suspension clamp tightens positively to transmission lines with two bolts, permitting about 5" length of clamp in contact with line. Line Marker is attached to suspension clamp by means of stainless steel spring and bolt.



Standard suspension clamp connectors will accept line sizes from 3/8" to 3/4" diameter. Larger sizes available at additional cost.

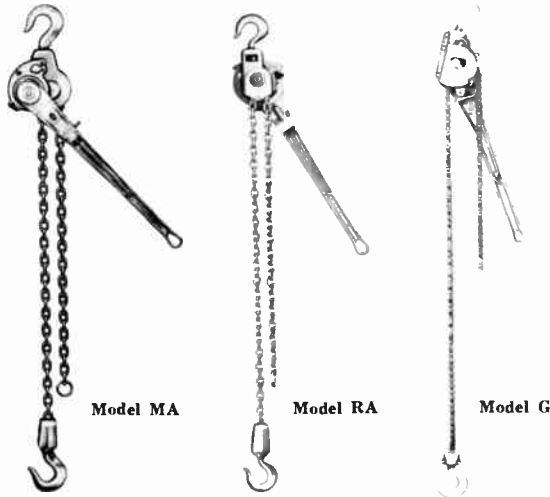
B. Split bolt connector accommodates line sizes 1/4" to 3/8". Clamp tightens positively with a single nut. Line Marker is attached to suspension clamp by means of a stainless steel spring and bolt. Larger sizes available at additional cost.

*Chance Insulated Jumper Clamps are available with cable capacity assembled. No extra charge is made for assembly time. If cable is desired, add suffix "-A" to catalog number and specify voltage rating, size, and length of cable for complete assembly.

**Current rating limited by jumper cable and 80° F ambient.

COFFING HOISTS

MODELS MA, RA AND G LEVER HOISTS



Model MA Disc Brake Type -- Capacities $\frac{3}{4}$ to 6 tons. A safety pull sealed aluminum lever hoist with efficient disc brake and link-type chain. Five special seals protect brake mechanism against moisture, chemicals, oil and dirt so that brake performance remains constant under exposure conditions. Aluminum frame for additional corrosion resistance and light weight.

Model RA Ratchet and Pawl Type -- Capacities $\frac{3}{4}$ to 6 tons. A safety pull aluminum lever hoist of ratchet and pawl design with link-type chain. Ratchet and pawl system provides safe, easy operation and freedom from maintenance. Body and handle of high-strength aluminum alloy for light weight and corrosion resistance.

Model G Ratchet and Pawl Type -- Capacities $\frac{3}{4}$ to 15 tons. A safety pull lever hoist of ratchet and pawl design with roller-type chain. Ratchet and pawl construction assures safe, sure operation and freedom from maintenance. Body and handle of certified malleable iron.

Cat. No.	Rated Cap. Tons	Std. Lift In.	Av. Lever Pull Req. for Full Load, Lbs.	Min. Dist. Btwn. Hooks In.	Approx. Net Wt. Lbs.	Each
Model MA — Aluminum Alloy						
MA-15	$\frac{3}{4}$	60	57	12 $\frac{1}{2}$	12 $\frac{1}{2}$	\$68.00
MA-15-2*	1 $\frac{1}{2}$	60	58	16 $\frac{1}{2}$	20	85.00
MA-30	1 $\frac{1}{2}$	60	82	14 $\frac{1}{4}$	23	94.50
MA-30-2*	3	60	87	17 $\frac{1}{4}$	36	120.50
MA-30-3	4 $\frac{1}{2}$	60	90	22	52	216.00
MA-30-4	6	60	93	22	66	233.00
Model RA — Aluminum Alloy						
RA-15	$\frac{3}{4}$	60	59	12 $\frac{3}{4}$	12 $\frac{1}{2}$	68.00
RA-15-2*	1 $\frac{1}{2}$	60	60	17 $\frac{1}{4}$	18	85.00
RA-30	1 $\frac{1}{2}$	60	82	14 $\frac{1}{4}$	23	94.50
RA-30-2*	3	60	93	17 $\frac{1}{4}$	35	120.50
RA-30-3	4 $\frac{1}{2}$	60	96	22	53	216.00
RA-30-4	6	60	97	22	63	233.00
Model G — Malleable Iron						
AG	$\frac{3}{4}$	56 $\frac{1}{2}$	56	13	14	68.00
AG†	$\frac{3}{4}$	56 $\frac{1}{2}$	56	13	14	76.00
ATG	1 $\frac{1}{2}$	57	60	15	17	85.00
ATG†	1 $\frac{1}{2}$	57	60	15	17	92.50
FG	1 $\frac{1}{2}$	56 $\frac{1}{2}$	116	16	25	94.50
FG†	1 $\frac{1}{2}$	56 $\frac{1}{2}$	116	16	25	102.50
FTG	3	57	120	17	34	120.50
FTG†	3	57	120	17	34	128.50
ZG-4 $\frac{1}{2}$	4 $\frac{1}{2}$	51	124	25	49	216.00
ZG-6	6	53	124	25	59	233.00
WG-9	9	60	124	30	120	478.00
WG-11	11	60	124	30	130	514.50
WG-13	13	60	124	30	140	562.00
WG-15	15	60	124	30	150	609.00

*Special malleable swivel hook available at no extra charge if desired. Order with "W" suffix to catalog number. Reduces minimum distance by approx. 1".

†Double pawls -- can be operated with half strokes of lever for use in close quarters.

Note: All Model G multiple chain hoists through 6 tons can easily be converted to the next smaller capacity for longer lift and faster operation.

SUPER POWER MODEL LEVER HOISTS



Super Power Model

Super Power Model Ratchet and Pawl Type -- Capacities 1 $\frac{1}{2}$ to 5 tons. Designed to employ a patented compound leverage principle for transmission of power to the load hook. Gears are eliminated. Sealed in lubrication increases service life, reduces maintenance. Ratchet and pawl construction assures safe, efficient operation.

Cat. No.	Rated Cap. Tons	Std. Lift In.	Av. Lever Pull Req. for Full Load, Lbs.	Min. Dist. Btwn. Hooks In.	Approx. Net Wt. Lbs.	Each
Super Power Model — Aluminum Alloy						
LA-1 $\frac{1}{2}$	1 $\frac{1}{2}$	56 $\frac{1}{2}$	60 $\frac{1}{2}$	14	20	\$94.50
LDA-3	3	57	62	18 $\frac{1}{2}$	28	121.00
Super Power Model — Malleable Iron						
L-1 $\frac{1}{2}$	1 $\frac{1}{2}$	56 $\frac{1}{2}$	60 $\frac{1}{2}$	14	26 $\frac{1}{2}$	94.50
LD-3	3	57	62	18 $\frac{1}{2}$	34 $\frac{1}{2}$	121.00
L-2 $\frac{1}{2}$	2 $\frac{1}{2}$	57	71	16	35 $\frac{1}{2}$	113.50
LD-5	5	53	74	21	55 $\frac{1}{2}$	210.00

Note: All Super Power Model multiple chain hoists through 6 tons can easily be converted to the next smaller capacity for longer lift and faster operation.

MIDGET PULLER



Capacities $\frac{1}{4}$ and $\frac{1}{2}$ tons. Provides great pulling power in a small, light weight unit. Handle can be used as a lever or high-speed crank. MP-5 has safety snap hooks. MP-10 has open throat hooks. Easily portable -- can be carried in tool box measuring 3 $\frac{1}{2}$ " x 5" x 13".

Cat. No.	Rated Cap. Tons	Std. Takeup In.	Approx. Net Wt. Lbs.	Each
MP-5	$\frac{1}{4}$	57	6 $\frac{1}{2}$	\$39.00
MP-10	$\frac{1}{2}$	56 $\frac{1}{2}$	9 $\frac{1}{2}$	50.50

SAFETY LOAD BINDER



Capacities 1 $\frac{1}{2}$ to 6 tons. A strong, safe, easily portable load binder built on dependable ratchet and pawl principle. Single-chain models can be doubled with a double-chain load block. Double-chained models can easily be single-chained.

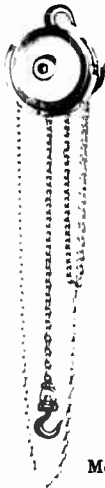
Cat. No.	Hold. Cap. Tons	Std. Takeup In.	Approx. Net Wt. Lbs.	Each
Single-Chain Models				
A	1 $\frac{1}{2}$	19 $\frac{1}{2}$	11 $\frac{1}{2}$	\$38.00
F	3	19 $\frac{1}{2}$	24	50.50
Double-Chain Models				
AD	3	20	17	48.50
FD	6	19 $\frac{1}{2}$	28	62.25

COFFING HOISTS

LIGHTWEIGHT AND STANDARD HAND CHAIN HOISTS



Model CB



Model YCT

Models CA and CB Porta-Hoists — Capacities ½ to 12 tons. A strong, light weight hoist designed for efficiency and freedom from maintenance. Exclusive Spiroid® gear system puts more teeth into contact under load, yet has fewer wearing parts. Rugged aluminum alloy housing for light weight, easy portability.

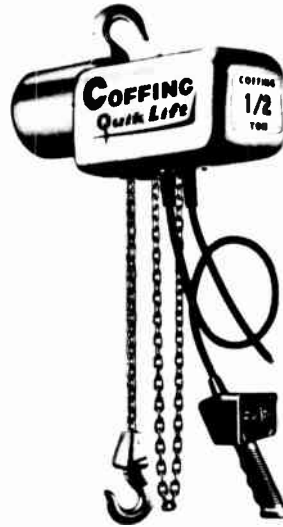
Model M-25 Midget — Capacity ¼ ton. A safe, powerful hoist that weighs only 12 pounds yet can raise its full load seven feet in just a few seconds. Low in cost but built for long use and freedom from maintenance. Swivel safety hooks for load and suspension are standard equipment.

Model YCT Spur Gear — Capacities ¼ to 25 tons. A rugged hoist designed for years of heavy-duty service. Equipped with Timken tapered bearings for smooth operation and safe, sure lifting. All internal moving parts are made of special heat-resistant alloy steel. Automatic brake stops load smoothly. Spark and corrosion-resistant parts are available upon request.

Cat. No.	Rated Cap. Tons	Std. Lift Ft.*	Av. Chain Pull in Lbs. to Lift Rated Cap.	Min. Dist. Btwn. Hooks In.	Approx. Net Wt. Lbs.	Each
Models CA and CB Porta-Hoists						
CA†	½	8	58	13 1/8	22	\$136.25
CB	1	8	58	13 1/8	31	170.00
CB	1 1/2	8	62	16 1/2	49	234.00
CB	2	9	83	17 1/2	51	270.50
CB	3	10	91	22	75	374.50
CB	4	10	85	23 3/4	100	437.00
CB	5	12	72	26 3/4	130	541.00
CB	6	12	87	26 3/4	130	563.75
CB	8	12	90	28 1/2	197	790.50
CB	10	12	83	31	248	897.75
CB	12	12	100	31	248	1144.00
Model M-25 Midget						
M-25	¼	7	40	9	12	46.75
Model YCT Spur Gear						
YCT	¼	8	57	13	67	153.00
YCT	½	8	55	13	67	153.00
YCT	1	8	71	16 1/2	93	193.00
YCT	1 1/2	8	98	18 1/4	133	257.00
YCT	2	9	102	21	201	299.00
YCT	3	10	99	25 1/4	189	386.00
YCT	3	10	97	23 1/8	227	421.00
YCT	4	10	106	29	286	467.00
YCT	5	12	90	38 1/2	398	598.00
YCT	5	12	83	32 3/4	235	654.00
YCT	6	12	108	38 1/2	398	598.00
YCT	6	12	99	32 3/4	235	654.00
YCT	8	12	110	45	470	838.00
YCT	10	12	112	48	560	849.00
YCT	12	12	110†	49 1/2	880	1438.00
YCT	16	12	112†	52 3/4	1051	1575.00
YCT	20	12	115†	55 1/4	1220	2238.00
YCT	25	12	125†	59	1320	2556.00

*Standard hand chain drop approx. 1' less than lift.
 †Spur gear model.
 ‡On each of two hand chains.
 ©A registered trademark of Illinois Tool Works, Inc.

MODEL JF QUIK-LIFT ELECTRIC HOISTS



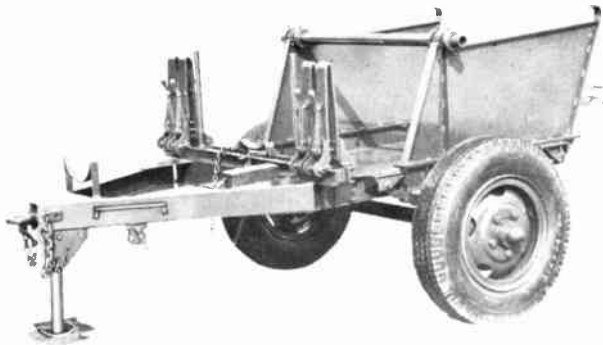
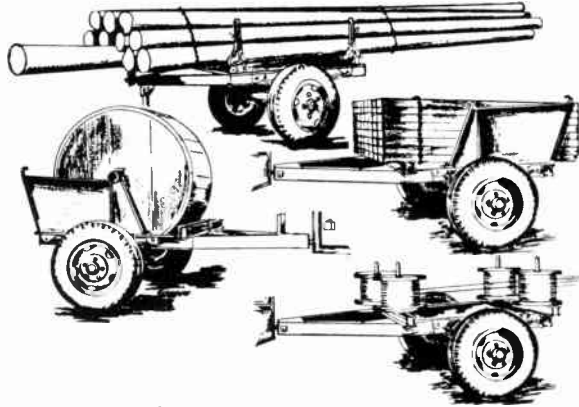
Capacities ¼ to 2 tons. A rugged, easily portable hoist for quick, precise lifting. Its specially designed pistol grip push-button control station permits one-hand operation so that operator has one hand free. Housing and frame are of tough die-cast aluminum alloy for light weight; construction in sections to permit easy access to interior. Limit switch can be adjusted easily. Brake is instant release type for safe, sure operation. Gearing is large and sturdy. Quick-connect terminals facilitate changing voltages. Shifting from single to double chain, or changing from hook to lug, is accomplished by merely removing four screws. All models are weather-resistant.

Cat. No.	Cap. Lbs.	Lift. Speed Ft. per Min.	Motor H.P.	Min. Dist. Btwn. Hooks In.†	Approx. Net Wt. Lbs.	10' Lift Model Each
115/230 Volts — 1 Phase — 60 Cycles						
JF-0516-1	500	16	¼	18	51	\$236.00
JF-0532-1	500	32	½	18	58	263.75
JF-0564-1	500	64	1	18	82	357.50
JF-1008-1*	1000	8	¼	21 1/2	59	272.00
JF-1016-1	1000	16	½	18	58	297.50
JF-1032-1	1000	32	1	18	82	340.50
JF-2008-1*	2000	8	½	21 1/2	66	310.75
JF-2012-1	2000	12	¾	18	71	361.50
JF-2016-1	2000	16	1	18	84	383.25
JF-4006-1*	4000	6	¾	22	84	434.75
JF-4008-1*	4000	8	1	22	95	456.25
208-220/440 Volts — 3 Phase — 60 Cycles						
JF-0516-3	500	16	¼	18	55	255.00
JF-0532-3	500	32	½	18	60	288.50
JF-0564-3	500	64	1	18	60	357.50
JF-1008-3*	1000	8	¼	21 1/2	63	293.75
JF-1016-3	1000	16	½	18	63	316.00
JF-1032-3	1000	32	1	18	60	340.50
JF-2008-3*	2000	8	½	21 1/2	70	328.75
JF-2012-3	2000	12	¾	18	64	361.50
JF-2016-3	2000	16	1	18	63	376.00
JF-4006-3*	4000	6	¾	22	74	434.75
JF-4008-3*	4000	8	1	22	74	456.25
550 Volts — 3 Phase — 60 Cycles						
JF-0516-5	500	16	¼	18	55	285.75
JF-0532-5	500	32	½	18	60	320.50
JF-0564-5	500	64	1	18	60	357.75
JF-1008-5*	1000	8	¼	21 1/2	63	334.75
JF-1016-5	1000	16	½	18	63	346.75
JF-1032-5	1000	32	1	18	60	372.00
JF-2008-5*	2000	8	½	21 1/2	70	349.75
JF-2012-5	2000	12	¾	18	64	364.50
JF-2016-5	2000	16	1	18	63	391.50
JF-4006-5*	4000	6	¾	22	74	436.75
JF-4008-5*	4000	8	1	22	74	467.00

*Double-chain hoist.
 †This dimension allows for 2" clearance between load block and underside of hoist for the single-chain hoists, and 1" clearance for the double-chain hoists.

EAGLE

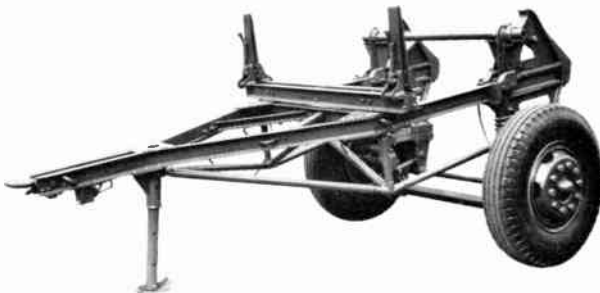
FOUR-IN-ONE TRAILER



Save money by investing in only one trailer to do four different jobs. Used for hauling cargo, cable reels, stringing wire and hauling poles. Change from one type of trailer to another in a few minutes.

Maximum reel capacity, 48" wide by 64" dia. Overall width of bolsters, 68". Overall height with cable reel supports in place, 60". Overall length, 124". Tires 8.25 x 20, 10 ply. Rated capacity 3 ton. Weight of trailer, 2000 lbs.
 No. 8637 Trailer.....Base Price **\$870.00**

POLE AND CABLE REEL TRAILERS



The W-PCP Model can be quickly converted from a pole hauling trailer to a cable reel trailer by removing one bolster and attaching the cable reel saddles and reel spindle as illustrated. Handles reels size 48" x 84", or 15 poles.

Width overall, 95½". Height overall, 70". Overall length, 148". Tread, 84". Tires, 10.00 x 20, 12-ply. Capacity, 5 tons, 15 poles. Brakes, 5" electric. Weight, 3400 lbs.

No. W-PCP Trailer.....Base Price **\$2125.00**
 No. WD, same as W-PCP except not equipped with bolsters and stanchions.....Base Price **\$1825.00**

ALL STEEL SERVICE BODIES



All steel construction, electrically welded throughout. Weather proof doors are double panel construction. Slam action locks are keyed alike. Finish painting to customer's color specifications. Mounted on customer chassis at factory or shipped direct.

Cat. No.	Length In.	Truck Size	Each
B-75	75	½ Ton	\$525.00
B-93	93	¾ & 1 Ton	600.00
B-104	104	1 Ton	625.00

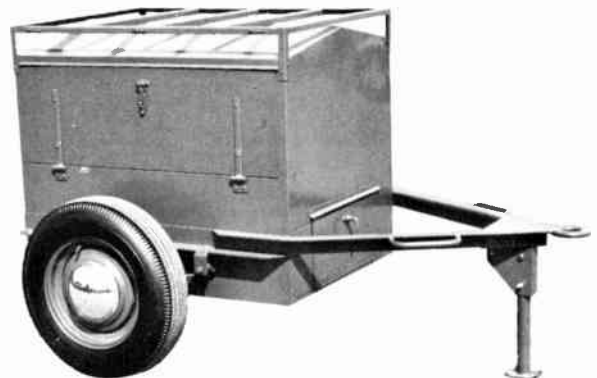
POLE DINKEY



Designed for high speed operation with heavy loads. Maximum strength without unnecessary weight is obtained through using a square axle and tubular tongue. Both bunks are equipped with clevises for tying load quickly and securely.

Width overall, 72". Height overall, 37". Height to top of bunk, 27". Overall length, 117". Tread, 58". Tires, 6.50 x 20, 8-ply. Capacity, 3 tons, 9 poles. Brakes, 3" electric. Weight, 1130 lbs.
 No. 1485 Pole Dinkey.....Base Price **\$660.00**

CABLE SPLICER'S CART



All steel construction, electrically welded throughout. Cabinet made of 18-gauge steel. Weather tight doors lined with ½" plywood. Compartments and bins easily accessible.

Length overall, 80½". Height overall, 48". Width overall, 57". Length, body only, 45½". Width, body only, 34½". Tread, 50". Tires, 6.00 x 15, 4-ply. Capacity, 2000 lbs. Weight, 550 lbs.

Cat. No.	Description	Each
9000	Cable Splicer's cart, less fenders.....	\$475.00
9000	Cable Splicer's cart, with fenders....	500.00

EAGLE

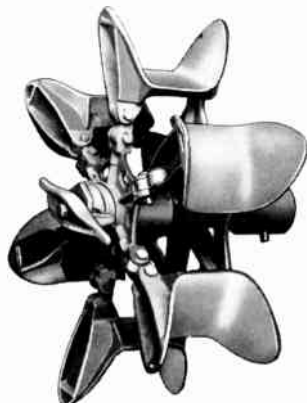
UNIVERSAL SHEAVE BLOCK AND OVERHANGING SOCKET



Unit permits cable pull upward, downward or sideways without the use of snatch blocks. Assembly consists of a specially designed sheave with two square shanks which lock into the overhanging socket fastened to the rear of the truck floor body floor.

Removable lock pin attached to socket with chain locks sheave in socket.

- No. 9Y651B Universal Sheave Block...each \$50.00
- No. 9Y648 Overhanging Socketeach 25.00



COLLAPSIBLE REEL

Designed to pick up wire in neat, compact rolls. Attaches to the winch shaft by means of a combination pin and bayonet type socket. Reel arms and supporting spiders are cast of aluminum alloy for light weight and maximum strength. Reel spindle is made of seamless steel tubing. Reel can be furnished with divider so that two different kinds of wire can be picked up at the same time.

Drum diameter, 20 in. Overall diameter, 28". Throat (between flanges) 6 in. Winch shaft diameter, 2 1/8 in. Weight, 70 lbs. No. 176-A-78 "CR" Reel.....each \$115.00

PORTABLE POLE BINDER

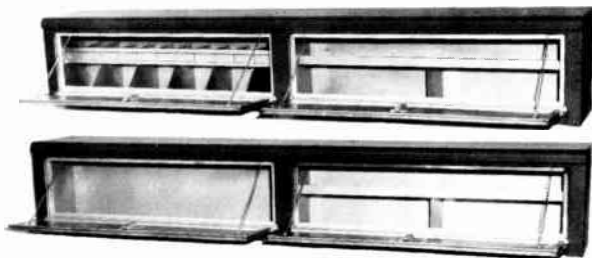


A handy time-saving tool for binding logs, poles and bulky loads. The pawl and ratchet provide a safe binding which may be tightened or slackened at any instant without danger of losing the load. Drum holds 18 feet of 3/8 inch cable. Heavy

spurs cast integral with steel base seat themselves in pole, holding the load in a firm, non-slip grip. Weight, 21 lbs.

No. 172-A-51 Pole Binder.....each \$29.50

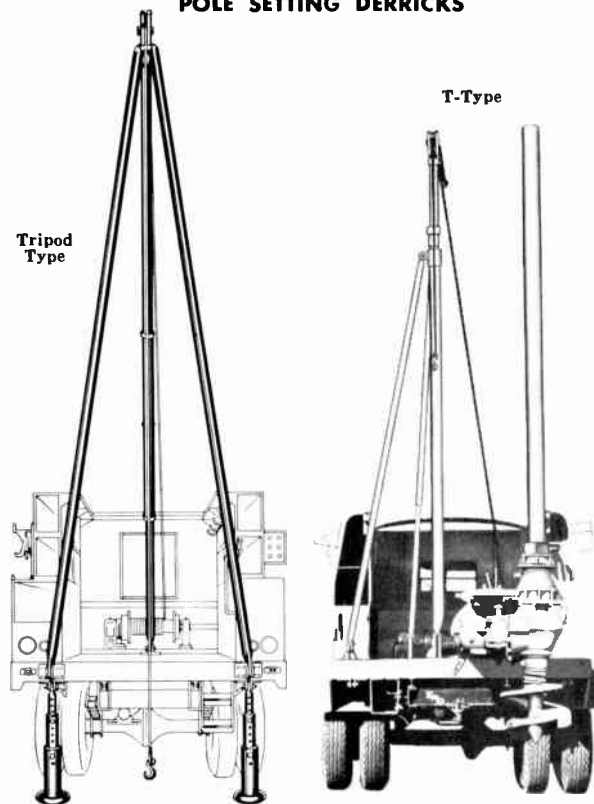
JUNIOR BODIES



For mounting on pick-up trucks. All steel construction, electrically welded throughout. Weather proof doors equipped with slam action locks all keyed alike. Various size compartments accommodate tools and supplies. Inside, silvertone finish. Outside, prime or finish painted. Width, 12 1/2". Height, 16".

Cat. No.	Length In.	Truck Size	Each
JB-78	78	1/2 Ton	\$140.00
JB-96	96	3/4 and 1 Ton	180.00
JB-105	105	1 Ton	205.00

POLE SETTING DERRICKS



Eagle steel derricks are constructed of Shelby tubing having a tensile strength of 90,000 lbs. per square inch. Cable sheaves have bronze self-lubricating bushings. All models have cable guide rollers to permit handling of poles from either side of truck.

Tripod Type Derricks

Cat. No.	For Poles up to ft.	Approx. Lift ft.	For Trucks, Tons	Wt. With Stiff Leg	Wt. With Telescoping Leg
M40	45	20	2 to 5	381	520
M45	55	22 1/2	3 to 5	521	600
M2870	70	28	3 to 5	830	950

- No. M-40 with one-piece side legs...each \$340.00
- No. M-40T with telescopic side legs...each 390.00
- No. M-45 with one-piece side legs...each 400.00
- No. M-45T with telescopic side legs...each 435.00
- No. 2870 with one-piece side legs...each 575.00
- No. 2870T with telescopic side legs...each 650.00

Above type derricks made of aluminum are available at slightly higher prices.

T-Type Derricks

Designed for use with double drum winch. One drum raises and holds the derrick in position — the other drum operates the hoisting line. Can be installed on 1 1/2 ton trucks and larger. Will handle poles up to 55 feet in length.

- No. T-45 including ground prop, prop extension and spacers.....each \$560.00
- No. T-45, less ground prop, extension and spacerseach 500.00
- Complete mounting bracket kit for T-45 derrick 150.00

WINCH LINE HOOK

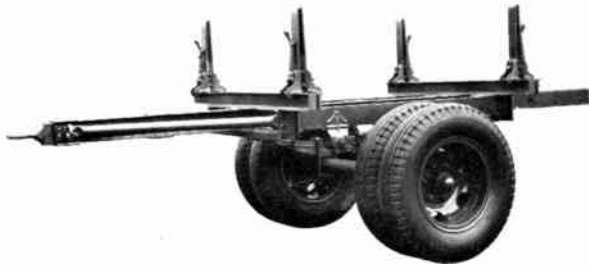


One piece drop forged steel hook. Inserts easily into loop at end of winch line. Provides a quick, safe method for picking up poles and other loads. Used on cable up to 3/4" diameter. Overall length, 8". Net weight, 4 lbs.

No. 206-B-24 Winch Line Hook.....each \$4.50

EAGLE

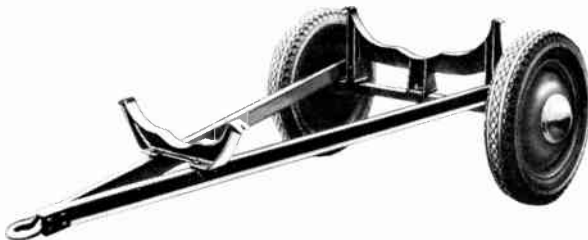
POLE TRAILERS



Exceptionally rugged trailers featuring maximum dependability. Furnished with stationary bolsters and sliding uprights. Extension tongue can be extended 11'-8". Width overall, 86". Height overall, 61¾". Height to bolster, 42¾". Minimum overall length, 182". Tread, 69". Tires, 7.50 x 20, 8-ply. Capacity, 3 tons (10 poles). Brakes, 5" electric. Weight, 2250 lbs.

- Model M Pole Trailer.....Base Price, **\$1150.00**
- Model H Pole. Same as Model M except tires are 8.25 x 20, 10-ply. Overall height is 64", height to bolster is 44¼". Capacity is 5 tons (16 poles), weight is 2860 lbs.
- Model H Pole Trailer.....Base Price **\$1350.00**

POLE DINKEY

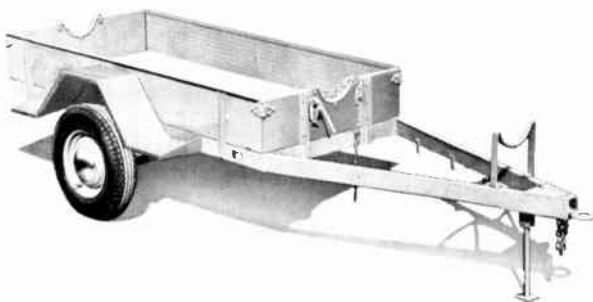


Light weight all steel trailer designed for high speed handling in light construction work. Wide tread prevents snaking and whipping at high speed.

Width overall, 68". Height overall, 33½". Height to top of bunk, 20¼". Overall length, 104". Tread, 56". Tires 6.50 x 16, 6-ply. Capacity, 1 ton, 6 poles. Weight, 325 lbs.

- No. 1775 Pole Dinkey.....Base Price **\$275.00**

CARGO TRAILER



Structural channel framing and sturdy steel box make this an ideal trailer for cargo hauling. Body is long enough for 8-foot cross arms. Pole saddle front and rear equipped with clamps to hold pole securely. Removable end boards.

Inside body measurements, 8'-7" x 47" x 12". Overall width, 70". Overall height, 39". Overall length, 15'. Tread, 62". Tires 6.50 x 16, 6-ply. Capacity, 1 ton. Weight 800 lbs.

- Model 7163 Cargo Trailer.....Base Price **\$570.00**

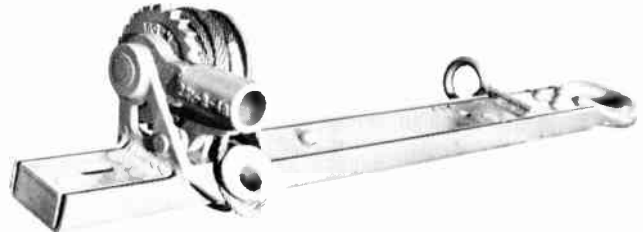
DRAWBARS



The Eagle type L drawbar is designed to attach easily, quickly, and positively to the end of the pole. The chain and tightener provide positive lashing with the four studs firmly imbedded in the pole. Designed primarily for use with trailer of 1 and 1½ tons capacity.

Length overall, 28½". Size of bar, 1" x 3". Chain (2 lengths) each, 36". Pintle ring, inside diameter, 2⅝". Pintle ring, outside diameter 5⅝". Distance between tighteners, 15". Weight, 31 lbs.

- No. 106160 "L" Drawbar.....each **\$75.00**
- No. 165-A-100 "H" Drawbar similar to "L" Drawbar, but longer and heavier. Wt. 55 lbs.each **\$85.00**



The CB drawbar serves both as a drawbar and a load binder. Two standard lag screws are inserted through the holes drilled in the drawbar channel, securing the drawbar to the king pole. The remaining poles, loaded around the king pole are lashed securely to the king pole with the cable of the pole binder. Designed for heavy duty service.

Length, 43". Size of bar, 1¾" x 3¾". Pole binder cable ⅝" x 8". Pintle ring inside diameter, 2⅝". Pintle ring outside diameter, 5⅝". Weight, 63 lbs.

- No. 101847 CB Drawbar..... each **\$70.00**

PINTLE HOOKS



Designed especially for heavy duty. Built to handle the most severe hauling jobs. One-piece drop forged hook, with positive lock type latch. Wrought steel braces complete with bolts and nuts. Only 7 bolts are required to install on truck. Wt. 62 lbs.

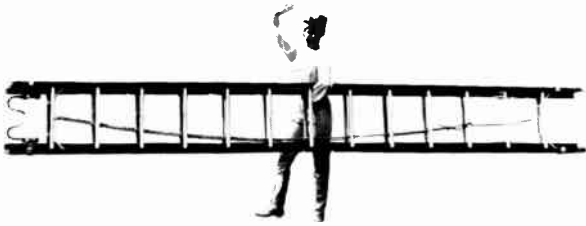
- No. 1417each **\$60.00**



Forged steel hook with large cast steel bracket for mounting under rear cross member of truck frame. Bracket is slotted to provide a strong mounting and to prevent hook from turning off center. Complete with bolts and nuts.

- No. 169-A-66 (BU) Weight, 55 lbs.....each **\$60.00**

**GAMBLE BROS. ELECTRICALLY SAFE
TYPE D LADDERS**



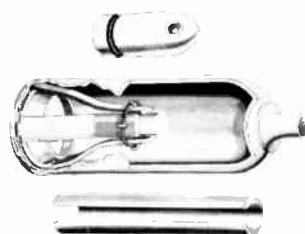
Wood laminated I-beam construction. Non-conductive, lightweight, straight-grained Sitka Spruce side rails. Tough, high-strength hickory, laminated to rail faces with 100% waterproof adhesive. High-strength, lightweight aluminum alloy rungs. Factory-finished with green pigmented water-repellent, wood preservative.

Description	Wt. Lbs.	Each
20' Ladder, Extension, Type D	39	\$94.29
24' Ladder, Extension, Type D	45	103.33
28' Ladder, Extension, Type D	52	114.67
Bottom or Top Section, 20' Ladder	20	53.85
Bottom or Top Section, 24' Ladder	23	59.04
Bottom or Top Section, 28' Ladder	26	65.44
10' Ladder, Single Section	19	49.50
12 Ladder, Single Section	22	54.28
14' Ladder, Single Section	25	60.16

Additional charges for optional equipment to be added to above prices when specified:

Equipped with Strand Hooks	\$12.67
Equipped with Spurs	3.67
Equipped with Safety Shoes	6.40

**ELECTROLINE STEEL DUCT
RODDING EQUIPMENT**



This equipment is made of oil-tempered spring steel wire in any length desired. To one end is attached the pick-up or female fitting. To the other end is attached the leader or male fitting. The female fitting is made of tubular steel, in sizes to

fit various sizes of ducts and is equipped with spring-bound steel fingers to admit the male fitting. When the leader enters the pick-up fitting, the steel-fingers lock the connections securely and make one continuous rod which can be pulled or pushed from either end. Rods are marked off every twenty-five feet.

Set consists of: 1 Reel and Base with 300 feet of wire, 1 Reel and Base with 400 feet of wire, 1 Pick-up Unit, 1 Reclaiming Tool, 1 Hand Feeding Tool. Shipping weight 600 lbs.

No. 6000 Complete Seteach \$325.00

DILLON MODEL AN DYNAMOMETER



A valuable instrument in checking tension of messenger, guy wires, underground cable, etc. One side clamps to wire by means of buffalo grip and the other side goes to chain hoist or winch. Dynamometer reads instantly in pounds the moment load is applied against it. Red maximum pointer remains at peak capacity for checking purposes.

All models have a rapid manual reset knob. The dial is protected by a shatter-proof crystal and the entire instrument has built-in overload safety factor so that loads up to 25% above capacity can be sustained without altering calibration.

Has more than 100 different uses in addition to line stringing work. Compact size and light weight make it easy to carry and use. Each capacity equipped with shackles and pins, available in two dial sizes, 5" diameter or 10" diameter.

Capacity Lbs.	5" Dial		10" Dial	
	Scale Division, Lbs.	Each	Scale Division, Lbs.	Each
500	5	\$140.00	2 1/2	\$190.00
1000	10	140.00	5	190.00
2500	50	140.00	25	190.00
3500	50	140.00	25	190.00
5000	50	160.00	25	210.00
7500	50	170.00	50	220.00
10000	100	180.00	50	230.00
15000	125	210.00	100	250.00
20000	250	250.00	100	300.00
30000	.....	.....	200	575.00
40000	.....	.....	200	625.00
50000	.....	.....	250	795.00
100000	.....	.....	500	1499.00

**MAINCO DISTANCE MEASURING
WHEEL**



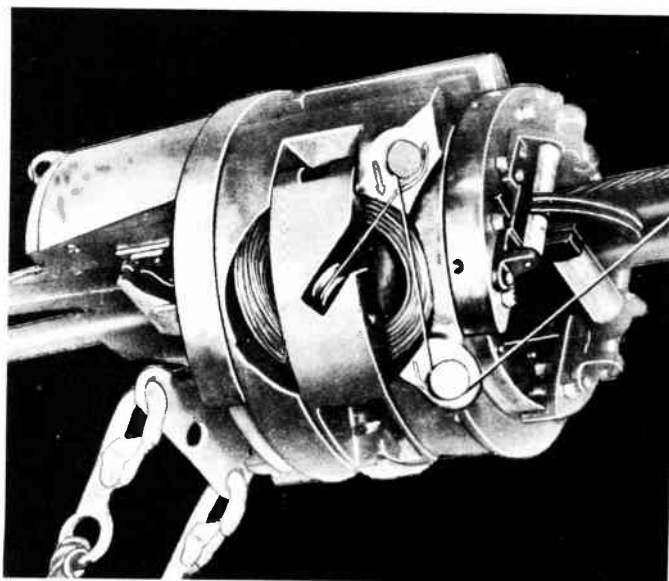
Easy to operate by one man. Better, quicker, less costly than two men with chain or tape.

Accurate. Lightweight aluminum, but sturdily built for enduring service. Wheel is 36" circumference. Flat rubber tire prevents slipping. Quality Veeder counter capacity up to 100,000 feet, but easily reset at will. Inches on stationary disc. Brake keeps wheel locked while taking readings.

Weight, 5 1/2 lbs.
Mainco Distance Measuring Wheel.....each \$85.00

GENERAL MACHINE PRODUCTS

TYPE F CABLE LASHER



The most versatile automatic lasher available for aerial cable up to 3 1/4" dia. Will lash cable to suspension strand of from 1/4" to 1/2" dia. and, with removal of certain parts, can be used for dual lashing. A new tensioning device assures traction on strand far superior to any previous lasher. Two or more cables can be lashed to one strand, if total diameter of cable assembly does not exceed 3". Unit holds two 1200 ft. coils of .045" lashing wire at one loading, and can be used for double lashing, if required.

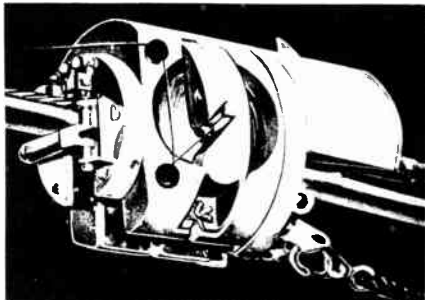
One man can easily operate lasher from the ground. A built-in brake prevents backroll when lashing cable up-grade. The pulling mechanism pivots about the axis of the rear driving roller and applies a hold down force on the strand roller approx. 2.2 times the forward component of the towing force.

Modification for double lashing with .065" stainless steel wire is available providing an additional set of tensioning pulleys to accommodate the larger size wire.

Cat. No.	Description	Wt. Lbs.	Each
7992	Furnished Complete With Pulling Rope and No. 7378 Case	43	\$550.00
7992-M	Modification for Double Lashing	....	40.00

TYPE C CABLE LASHER

A compact, light-weight cable lasher for cables up to 1 1/2" dia. on suspension strands from 5/16" to 7/8" and, when equipped with peanut strand drive roller, may be used on 1/4" messenger. Holds two 1200 ft. coils of .045" lashing wire at one loading.



Precision-built machine for easy, trouble-free operation. Three simple steps prepare the lasher for work. Provides a smooth, non-chafing, even lashing which always stays tight. Equipped with brake to prevent backroll when lashing cable up-grade.

Modification for double lashing with .065" stainless steel wire is available providing an additional set of tensioning pulleys to accommodate the larger size wire.

Cat. No.	Description	Wt. Lbs.	Each
7142	Furnished Complete With Pulling Rope and No. 7143 Case	33	\$495.00
7142-M	Modification for Double Lashing	....	40.00

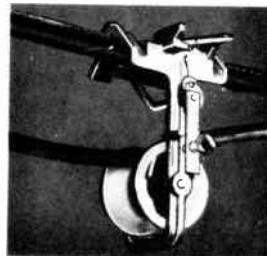
TYPE D CABLE BLOCK



Supports aerial cable to 3" dia. on suspension strand prior to lashing cable. Frame is of heat-treated aluminum alloy. Strand hooks have steel inserts on bearing surfaces. Sheave is of heat-treated aluminum alloy with Oilite bearings. Locking lever is reversible; block can be locked in either position so cable can be pulled in the opposite direction. Wt. 3 3/4 lbs.

Cat. No. 7268.....Each \$12.75

TYPE F CABLE BLOCK



Supports aerial cable on suspension strand prior to lashing cable, and can be used in dual lashing. Frame is of heat-treated aluminum alloy. Strand hooks have steel inserts on bearing surfaces. Sheave is of heat-treated aluminum alloy with Oilite bearings. Locking lever is reversible; block can be locked in either position so cable can be pulled in the opposite direction. Wt. 3 3/4 lbs.

Cat. No. 8093.....Each \$14.00

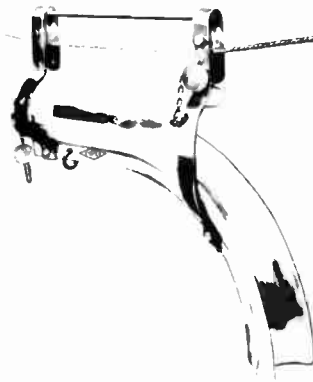
AERIAL CABLE GUIDE



Used ahead of the cable lasher to raise cable in position for lashing to strand. The shoe is an aluminum casting with steel insert for wear, suspended by steel straps from two strand rollers locked on the strand, and can be used in dual lashing. Ideal for cable of 1" dia. All steel parts have plated finish. Wt. 11 lbs.

Cat. No. 8007.....Each \$45.00

AERIAL CABLE GUIDES



Used ahead of the cable lasher to raise cable in position for lashing to strand. The shoe is an aluminum casting with steel insert for wear, suspended by steel straps from two strand rollers locked on the strand. An ideal tool in construction using cable of 1" dia. or less. All steel parts have plated finish. Wt. 11 lbs.

Cat. No. G1012.....Each \$28.00

Cat. No. G1024.....Each 90.00

Similar to No. G1012 except will accommodate up to 3" dia. cable. Wt. 28 lbs.

GENERAL MACHINE PRODUCTS

TYPE CR COLLAPSIBLE POWER REEL



Slips easily on the extension shaft of a 2 7/8" winch, and is ideal for rapidly rewinding or stringing wire or small diameter cable. Coils are mounted or removed quickly with a half turn of the locking member, which collapses the movable segments. Fixed spider, yokes and segments are of heat-treated aluminum alloy. Reel I.D. is 20"; O.D. of expanded reel is 28". Wt. 62 lbs.

Cat. No. 176A80
Each\$110.00

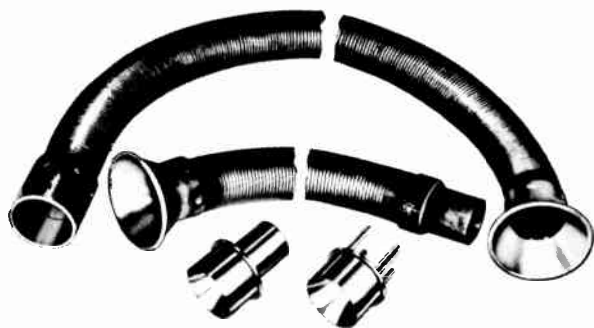
TYPE C DROP WIRE REEL



Consists of a tubular frame which will hold the reel in either a vertical or horizontal position; the spokes are shaped and provided with springs to securely hold a coil of wire having 15" dia. coil eye. Inner flange is permanently mounted on the spindle and equipped with an adjustable brake. Outer flange is adjustable to two positions on the spindle and can be removed for loading reel with coil of wire and equipped with handle for turning the reel when taking up wire. Finish—green paint. Wt. 38 lbs.

Cat. No. 7598.....Each \$44.00

CABLE FEEDER AND FEEDER NOZZLES



Cable feeder protects cable being pulled into underground conduit. Consists of a main section and extension section, ordered separately. Main section is a 4" flexible metal hose with bell mouth on one end and sleeve for nozzle on other end. Extension section consists of a 4" hose with bell mouth on one end and tube on other end.

Separate bell-mouthed split type steel nozzles are available for both round and square conduit in different diameters.

Cat. No.	Description	I.D.	Lgth.	Wt. Lbs.	Each
6058-A	Feeder Main Section...4"		90"	35	\$32.50
6058-B	Feeder Ext. Section...4"		43 1/4"	18	30.00
6058-C	3" Nozzle.....2 5/8"		6 1/4"	7	26.00
6058-D	3 1/4" Nozzle.....2 7/8"		8 1/8"	8	27.50
6058-E	3 1/4" S Nozzle.....3 1/8"		5 3/4"	5	30.00
6058-F	4" Nozzle.....3 7/8"		8"	10	55.00

TYPE B CABLE LUBRICATOR



For applying lubricant to underground cable by passing the cable directly through the lubricator. Consists of a sheet steel funnel for holding the lubricant, a flexible leather tube for spreading and controlling the amount of lubricant applied, and a hose clamp for attaching the tube to the funnel. Funnel is equipped with two handles. Wt. 7 lbs.

Cat. No. 7287.....Each \$20.00

CABLE LUBRICANTS

These lubricants are especially designed for ease in pulling or placing cables into conduit. Available in two types: one for lead sheathed cable; the other is Bentonite for lepeh or synthetic sheath material and is available in two grades, regular and winter. Specify type of sheath when ordering.



Cat. No.	Description	Wt. Lbs. 5-Gal. Drum	Per Drum
7437-L	For Lead Sheath..	40	\$17.00
7437-PB	Bentonite Regular	40	10.00
7437-PC	Bentonite Winter	40	15.00

RUBBER CONDUIT PLUGS



Made of soft, expansible rubber with galvanized steel plates and bolts, these plugs are ideal for providing a positive seal in underground conduit against water and gas. Available in two shapes—round or square and two types—split for slipping around cable, and solid for plugging unused ducts. A wide range of sizes is available. When ordering, specify shape and type, as well as size.

Cat. No.	Description	Each
6668	Split for 3 1/2" and 3 13/16" Round Ducts.....	\$10.25
6668	Split for 4" and 4 1/2" Round Ducts.....	11.00
6668	Solid for 3 1/2" and 3 13/16" Round Ducts.....	9.00
6668	Solid for 4" and 4 1/2" Round Ducts.....	9.50
6668	Split for 3 1/4" Square Ducts.....	14.25
6668	Solid for 3 1/4" Square Ducts.....	9.00
6668	Solid for 4 1/4" Square Ducts.....	9.50

TYPE G CABLE BENDERS



Two sizes for making compound bends in cable up to 4" or 5" dia. Frame is aircraft alloy steel tubing. Saddles are swivel-mounted for making any kind of bend, including spiral. Can be rotated around cable in restricted areas. Center section is arched to bend cable without harm. Hardened steel ratchets have deep-cut teeth. Safety catch on top of rack prevents center section from becoming detached when lowering into manhole.

Cat. No.	Description	Wt. Lbs.	Each
G1111	4" Bender	70	\$310.00
G1112	5" Bender	80	385.00

GENERAL MACHINE PRODUCTS

CABLE SHEAVE



This rugged cast aluminum sheave easily handles cable up to 5" dia. It is equipped with self-lubricated bushings.

Cat. No.	O.D.	Wt. Lbs.	Each
7171-5	2 1/2"	75	\$120.00

TYPE B SOAP BUCKET



A dispensing container for soap solution used in pressure testing cable. Consists of an aluminum can with a funnel-shaped well and bail for suspending the bucket. Funnel is removable for cleaning. Well accommodates a brush with a rubber stopper permanently attached to the handle. Replacing the brush automatically covers the soap solution. Wt. 1 lb.

Cat. No.	Description	Each
7271	Bucket w/Brush	\$6.60
7272	Brush only	2.00

COMPOUND KETTLE



Consists of a double-jacketed, 5 qt. kettle for melting compounds. Outer jacket keeps material at correct pouring temperature for a long period. Heat-conductor tube allows gases to escape and assures even melting of compound. Doubling on bail permits raising and lowering for manhole or aerial work. Wt. 6 1/2 lbs.

Cat. No. 6130.....Each \$18.00

MANHOLE GUARD RAILS



Made of 3/4" standard steel pipe. All fixed joints are welded. Seamless steel tubing used throughout for sleeves and hinges. Furnished with two steel chains, warning mast holder, and wing bow locking brace, which assures strong, rigid protection and permits the use of chains on one side. Finished in yellow enamel. Wt. 50 lbs.

Also available in aluminum for optimum handling ease. Wt. 24 lbs.

Cat. No.	Description	Each
6867	Steel Pipe	\$48.00
6867-AL	Aluminum	POA

TYPE B WARNING SIGN



Unusual feature is the method of increasing its stability. The 18" square panel is pivoted on the A frame so that wind pressure will exert a downward force, anchoring it more firmly. The panel is free to move 35° from the vertical position; frame is held in the open position by spreaders. A socket at the side can support a warning flag or signal. All steel, hot dip galvanized finish. Wt. 23 lbs.

Cat. No. 7358.....Each \$14.75

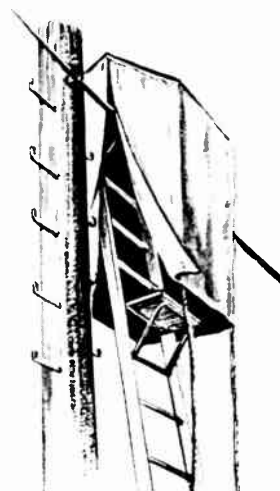
30" x 30" MEN WORKING SIGN



This large, diagonal sign meets the size recommendations of the National Joint Committee on Uniform Traffic Control Devices. Made of aluminum, the panel is fluorescent yellow for optimum visibility day or night. The panel pivots 35° from its vertical position on the A frame so that wind pressure exerts a downward force, anchoring it more firmly. A pair of panel-centering springs help to further stabilize the sign. When not in use, the sign folds to 30" x 15" and slips into the center of the collapsible frame for easy storage in existing sign racks on utility trucks. Frame is all steel, hot dip galvanized finish. Wt. 32 lbs.

Cat. No. G1121.....Each \$40

TYPE H AERIAL TENT



Complete tent consists of a fire-, water-, mildew- and weather-resistant duck cover with vinyl after-finish and a translucent top. Frame has a rigid center bow and two side bows of aluminum tubing with two plastic-covered canvas straps attached to the bows. Guy ropes on side bows anchor the tent in position. Tent is 52" across strand, 8 ft. 8" high and 47 1/2" along strand. Wt. 34 lbs.

Cat. No. 8231.....Each \$96.00

LADDER STAND

Collapsible stand that when mounted on a ladder produces a firm platform for the mechanic to stand on when splicing cables. Wt. 11 lbs.

Cat. No. 7024.....Each \$32.00

MINERALLAC

"Volt-Telling" STATISCOPES

These three types of statiscopes meet every possible current detection need. Each lights up and warns the worker when held in any alternating electrical field. They indicate the presence of voltage in AC and pulsating DC circuits . . . x-ray equipment . . . static in belting . . . high frequency . . . condenser discharges . . . automotive ignition, etc.



**POCKET-TYPE
STATISCOPES FOR
UNDERGROUND
CABLE WORK**

Gives positive indication on 1000 volts and up, when in direct contact with the conductor insulation, also at a point several times the flashover distance on non-insulated conductors. It is not necessary to touch this sensitive instrument to conductors carrying high potential. In testing, such interfering factors as lead on underground cables, metal switch cabinets, grounded framework or anything that absorbs or destroys the static field should be removed.

Pocket Type Statiscopes each **\$6.90**

**OVERHEAD EXTENSION
STATISCOPES**



Designed for overhead lines, this statiscopes has an extension telescopic cover. It is suitable for direct contact up to and including 2300 volts, when held in operator's hand. Red fibre ring is placed on cover to mark handle position. (Illustration shows statiscopes in the opened and closed positions.)

Overhead Type Statiscopes each **\$15.50**
Replacement Tube each **2.70**

STATION TYPE STATISCOPES



Recommended for high voltage use in stations and sub-stations and designed to give positive indication on 2000 volts and up. Breakdown is well over 75,000 volts. Direct contact with conductor is not necessary . . . will indicate at a point well over the flashover distance. Entirely self-contained, the sensitivity is independent of external capacities and may be attached to extension handle to reach distant conductors. Made from hard rubber rod, no metal is exposed.

Station Type With Periscope each **\$21.85**
Station Type Only each **15.50**

PERISCOPE ATTACHMENT

Used with the station type statiscopes in daylight or brightly lighted places where glow-tube would be indistinct.

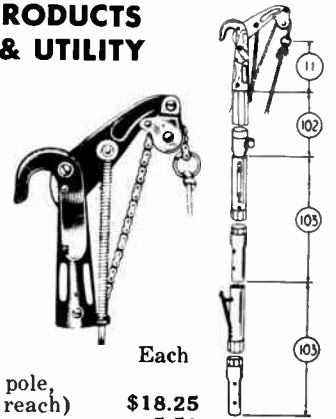
Periscope Only each **\$6.50**



**JOHN H. GRAHAM PRODUCTS
SNAP-CUT TELEPHONE & UTILITY
TREE TRIMMERS**

Strong, durable, 18 ft. tree pruning unit. Capacity of 1". Consists of No. 11 Head, No. 102 Head pole, two No. 103 Extension poles, and polypropylene operating rope. Selected 1 1/4" octagon spruce poles have positive locking, seamless aluminum telescoping joints.

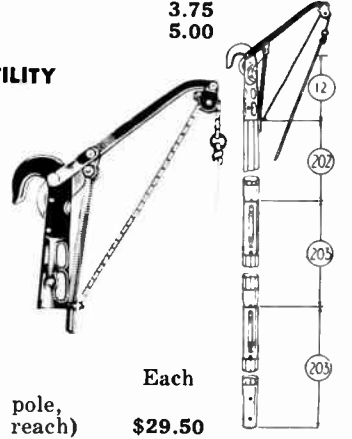
Cat. No.	Description	Each
11-18	Complete—Head, head pole, 2 extension poles (18' reach)	\$18.25
11	Head Only	5.50
102	6' Head Pole	3.75
103	6' Extension Pole	5.00



**SNAP-CUT TELEPHONE & UTILITY
TREE TRIMMERS**

Strong, durable, 18 ft. tree pruning unit. Capacity of 1 1/2". Consists of No. 12 Head, No. 202 Head pole, two No. 203 Extension poles, and polypropylene operating rope. Selected 1 3/4" octagon spruce poles have positive locking, seamless aluminum telescoping joints.

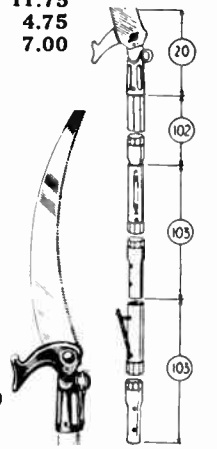
Cat. No.	Description	Each
12-18	Complete—Head, head pole, 2 extension poles (18' reach)	\$29.50
12	Head Only	11.75
202	6' Head Pole	4.75
203	6' Extension Pole	7.00



**SNAP-CUT
TELEPHONE & UTILITY
POLE PRUNING SAW**

A complete POLE SAW unit consists of No. 20 Head, No. 102 Head pole, and two No. 103 Extension poles, making the total unit 18' long.

Cat. No.	Description	Each
20-18	Complete POLE SAW unit	\$19.00



SNAP-CUT PROFESSIONAL LOPPING SHEARS

TIFFANY

MULTI-POWER



New, heavy duty lopping shears with the same easy double cut "draw-in" action as our original "Tiffany." Hammer forged throughout with new shaped hardwood handles that properly fit the hands for easy use. Handles are permanently pinned through the tangs so they can't come off. Patented lock nut keeps proper tension. Ideal for all rough pruning work.

Cat. No.	Description	Each
528	28" overall	\$ 9.50

A quality pruner employing the patented "Multi-Power" compound lever action. All cutting parts are forged alloy steel, heat treated, polished and ground. Shanks of heat treated tool steel. Northern ash handles. "Smooth slicing power." Easily cuts 1 3/4" to 2" branches.

Cat. No.	Description	Each
75	Handles 22", overall 31"	\$13.50

KELLEMS PULLING GRIPS

ROTATING EYE PULLING GRIPS



Forged steel swivel eye, swaged to the strands of the Grip; varied mesh, tubular protection and endless weave (no pigtails). Made of improved plow steel strand.

For Cable Diam., In.	Medium Mesh 20"-32"		Standard Mesh 32"-44"		Long Mesh 44"-60"	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
3/4 to 1	013	\$10.20	024	\$11.40	032	\$13.20
1 to 1 1/4	014	11.20	025	12.00	033	16.00
1 1/4 to 1 1/2	016	12.20	026	13.80	034	19.20
1 1/2 to 2	017	13.30	027	16.20	035	22.20
2 to 2 1/2	018	15.70	028	19.40	036	25.40
2 1/2 to 3	019	17.90	029	22.40	037	28.40
3 to 3 1/2	020	20.30	030	25.80	038	31.80
3 1/2 to 4	021	22.55	031	29.00	039	34.80
4 to 4 1/2	.....	.....	.....	.....	.....	.....
4 1/2 to 5	.....	.....	.....	.....	.....	.....

UNIVERSAL SLACK GRIPS



A new design with single offset eye, swaged aluminum collar, varied mesh and endless weave.

For Cable Diam., In.	Closed Grip Double Weave		Split Grip Double Weave With Lacing	
	Cat. No.	Price Each	Cat. No.	Price Each
3/4 to 1	003	\$4.85	003	\$6.00
1 to 1 1/4	004	5.40	004	6.20
1 1/4 to 1 1/2	005	5.90	005	6.60
1 1/2 to 1 3/4	006	6.40	006	7.20
1 3/4 to 2	007	7.00	007	8.00
2 to 2 1/2	008	7.60	008	8.80
2 1/2 to 3	009	8.80	009	10.25
3 to 3 1/2	010	10.10	010	11.80
3 1/2 to 4	011	11.35	011	13.00

For Cable Diam., In.	Split Grip Single Weave Rod Closing	
	Cat. No.	Price Each
3/4 to 1	003	\$3.65
1 to 1 1/4	004	4.05
1 1/4 to 1 1/2	005	4.45
1 1/2 to 1 3/4	006	4.90
1 3/4 to 2	007	5.30
2 to 2 1/2	008	5.70
2 1/2 to 3	009	6.50
3 to 3 1/2	010	7.30
3 1/2 to 4	011	8.10

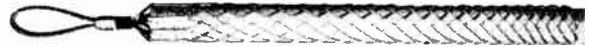
JUNIOR PULLING GRIPS



For pulling multiple insulated wire through conduit.

Diam. Range, In.	Cat. No.	For Wire Sizes	Each
1/4 to 3/8	001	2 #14 or equivalent	\$1.65
3/8 to 1/2	002	2 to 6 #12 or equiv.	1.95
1/2 to 5/8	003	2 to 6 #10 or equiv.	2.35
5/8 to 3/4	004	3 to 6 #8 or equiv.	2.85
3/4 to 1	005	3 to 6 #6 or equiv.	3.25
1 to 1 1/4	006	2 to 4 #1/0 or equiv.	3.40

UNIVERSAL PULLING GRIPS



This is a quality single weave Pulling Grip of latest design. Swaged aluminum collar; tubular protection; varied mesh, and endless weave.

For Cable Diam., In.	Short Mesh 12"-20"		Medium Mesh 20"-32"		Standard Mesh 32"-42"	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
3/4 to 1	003	\$3.80	012	\$4.80	022	\$5.80
1 to 1 1/4	004	4.10	013	4.95	023	6.05
1 1/4 to 1 1/2	005	4.45	015	5.15	024	6.65
1 1/2 to 1 3/4	006	4.85	016	5.45	024	6.65
1 3/4 to 2	007	5.30	017	6.20	025	7.65
2 to 2 1/2	008	5.70	018	7.25	026	8.85
2 1/2 to 3	009	6.50	019	8.80	027	10.40
3 to 3 1/2	.....	.....	.....	.....	028	12.15
3 1/2 to 4	.....	.....	.....	.....	.....	.....

OLD TYPE PULLING GRIPS



Flexible served eye, tubular protection. Plow steel strand.

Double Weave Only

For Cable Diam., In.	24" Long		36" Long		48" Long	
	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
3/4 to 1	003	\$7.75	012	\$ 9.75	019	\$12.10
1 to 1 1/2	004	7.95	013	10.10	020	12.40
1 1/2 to 2	005	8.55	014	10.85	021	13.10
2 to 2 1/2	006	9.25	015	11.70	022	14.10
2 1/2 to 3	007	10.20	016	12.80	023	15.25
3 to 3 1/2	008	11.35	017	14.20	024	16.60
3 1/2 to 4	009	12.70	018	16.10	025	18.50

MULTIPLE STRENGTH PULLING GRIPS



With Mating Eye Forging

Cable Dia. Range, In.	Cat. No.	Minimum Breaking Strength Lbs.	Each
1/4 to 1/2	033-02-016	5700	\$10.70
1/2 to 3/4	033-02-018	9000	13.45
3/4 to 1	033-02-020	10000	14.95
1 to 1 1/4	033-02-022	21000	17.40
1 1/4 to 1 1/2	033-02-024	25000	20.75
1 1/2 to 1 3/4	033-02-026	25000	23.50
1 3/4 to 2 1/4	033-02-028	40000	31.50

With Non-Rotating Flexible Eye

Cable Dia. Range, In.	Cat. No.	Minimum Breaking Strength Lbs.	Each
1/4 to 1/2	033-02-044	5700	\$ 8.00
1/2 to 3/4	033-02-046	9000	11.30
3/4 to 1	033-02-048	10000	12.50
1 to 1 1/4	033-02-050	20000	15.10
1 1/4 to 1 1/2	033-02-052	20000	17.15
1 1/2 to 1 3/4	033-02-054	20000	18.50
1 3/4 to 2 1/4	033-02-056	20000	27.50

KELLEMS SUPPORT GRIPS

Kellems Support and Riser Grips are made of tin coated bronze. Also available in stainless steel for severe conditions.



CLOSED GRIPS

Used for new installation and where end of cable is available.

For Cable Diam., In.	Double Eye Closed		Single Eye Closed	
	Cat. No.	Price Each	Cat. No.	Each
	022-01-		022-01-	
3/4 to 1	003	\$2.50	015	\$2.60
1 to 1 1/4	005	2.80	017	2.90
1 1/4 to 1 1/2	006	3.10	018	3.30
1 1/2 to 1 3/4	007	3.60	019	3.70
1 3/4 to 2	008	4.60	020	4.80
2 to 2 1/2	009	5.30	021	5.70
2 1/2 to 3	010	6.10	022	6.80
3 to 3 1/2	011	7.40	023	9.20
3 1/2 to 4	012	8.40	024	10.80

SPLIT GRIPS

With tin coated bronze lacing used where end of cable is not available.

For Cable Diam., In.	Double Eye Split		Single Eye Split	
	Cat. No.	Price Each	Cat. No.	Each
	022-02-		022-02-	
3/4 to 1	003	\$2.80	015	\$2.90
1 to 1 1/4	005	3.20	017	3.30
1 1/4 to 1 1/2	006	3.50	018	3.60
1 1/2 to 1 3/4	007	3.90	019	4.00
1 3/4 to 2	008	4.70	020	5.20
2 to 2 1/2	009	5.50	021	6.00
2 1/2 to 3	010	6.20	022	7.00
3 to 3 1/2	011	7.70	023	9.30
3 1/2 to 4	012	8.60	024	10.60



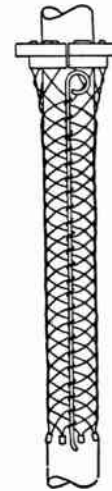
SPLIT GRIPS

Closed with a rod. Faster installation, with factory skill replacing on-the-job lacing.

For Cable Diam., In.	Double Eye Split		Single Eye Split	
	Cat. No.	Price Each	Cat. No.	Each
	022-03-		022-03-	
3/4 to 1	003	\$3.40	015	\$3.40
1 to 1 1/4	005	3.70	017	3.70
1 1/4 to 1 1/2	006	4.15	018	4.15
1 1/2 to 1 3/4	007	4.70	019	4.70
1 3/4 to 2	008	5.50	020	5.70
2 to 2 1/2	009	6.20	021	6.50
2 1/2 to 3	010	6.90	022	7.50
3 to 3 1/2	011	8.00	023	9.85
3 1/2 to 4	012	8.90	024	11.10



CONDUIT RISER GRIPS



Kellems Conduit Riser Grip is made of tin-coated bronze wire with a tin-coated bronze Ring that seats on the end of the conduit. The Grip slips inside the conduit. A cap or bushing can be threaded on the conduit over the Ring. The perfect support for riser cable in conduit. Made in Single or Double Weave Closed, and Double Weave Split (with lacing) or Single Weave Split (with Rod Closing). In ordering give conduit size and cable size.

Conduit riser and ring grips are available in closed single weave; closed, double weave; double weave, split with lacing; and rod closing single weave, in conduit sizes from 1 1/4" to 6".

SERVICE DROP GRIPS

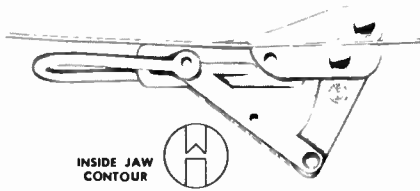


The "Concentric" support for modern service cable, round or oval.

Cat. No.	For Cable Diam., In.	Price Each	Cat. No.	For Cable Diam., In.	Each
	022-16-		022-16-		
001	.23-.31	\$0.49	008	.64-.75	\$0.84
002	.29-.37	.51	009	.70-.81	.86
003	.35-.44	.57	010	.75-.87	.89
004	.41-.50	.60	011	.81-.94	.91
005	.46-.56	.67	012	.87-1.00	.93
006	.52-.62	.76	013	.94-1.06	.96
007	.58-.68	.82	014	1.00-1.18	.98

KLEIN GRIPS

Solid and Strand

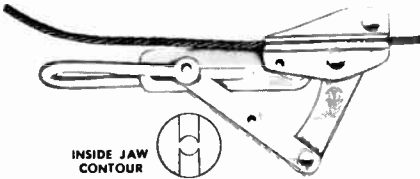


"CHICAGO" GRIPS FOR BARE WIRE

Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1613-30	6 B&S Solid (.162")	12 B&S Solid (.081")	.22"	1,500 lb.	\$3.55
1613-30B	6 B&S Solid (.162")	12 B&S Solid (.081")	.22"	1,500 lb.	5.60
1613-40	1/0 B&S Strand (.373")	10 B&S Solid (.102")	.44"	4,500 lb.	6.90
1613-40B	1/0 B&S Strand (.373")	10 B&S Solid (.102")	.44"	4,500 lb.	9.90

B indicates bronze-lined jaws.

"CHICAGO" GRIPS FOR BARE ALUMINUM AND COPPER CABLE

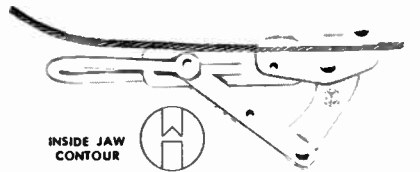


Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1656-20	1/0 A.C.S.R. (.398")	6 A.C.S.R. (.198")	.50"	4,500 lb.	\$6.90
1656-20B	1/0 A.C.S.R. (.398")	6 A.C.S.R. (.198")	.50"	4,500 lb.	9.90
1656-30	3/0 A.C.S.R. (.502")	2 A.C.S.R. (.316")	.56"	4,500 lb.	8.25
1656-30B	3/0 A.C.S.R. (.502")	2 A.C.S.R. (.316")	.56"	4,500 lb.	11.65
1656-40	336,400CM A.C.S.R. (.741")	3/0 A.C.S.R. (.502")	.75"	8,000 lb.	13.50
1656-40B	336,400CM A.C.S.R. (.741")	3/0 A.C.S.R. (.502")	.75"	8,000 lb.	19.75
1656-50	477,000CM A.C.S.R. (.883")	397,500CM A.C.S.R. (.783")	.94"	8,000 lb.	13.50
1656-50B	477,000CM A.C.S.R. (.883")	397,500CM A.C.S.R. (.783")	.94"	8,000 lb.	19.75
*1656-AB	500,000CM A.C.S.R. (.904")	3/0 A.C.S.R. (.502")	.94"	8,000 lb.	25.00

B indicates bronze-lined jaws.

*For use on aluminum cables where minimum conductor damage is essential, we hold stock of parts and jaws are milled to fit exact diameter of cable. Range of conductor size is given for general information and is made for one size cable only. ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE.

IMPROVED "CHICAGO" GRIPS

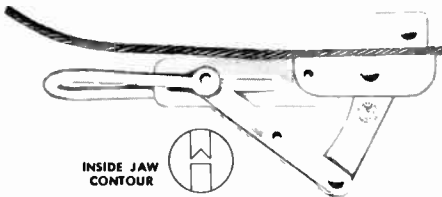


For messenger, guy strand, and conductors up to 1/2 in. in diam.

Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1628-5	4/0 B&S 12 Strand (.552")	6 Solid (1.62")	.58"	8,000 lb.	\$10.30
1628-5B	4/0 B&S 12 Strand (.552")	6 Solid (1.62")	.58"	8,000 lb.	13.80

B indicates bronze-lined jaws.

"CHICAGO" GRIPS

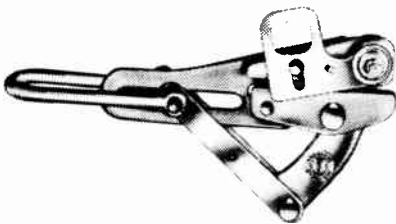


For messenger, guy strand, and conductors up to 1/2 in. in diam.

Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1628-16	5/8" Gal. Steel Strand (.625")	5/16" Gal. Steel Strand (.312")	.69"	15,000 lb.	\$25.70
1628-16B	5/8" Gal. Steel Strand (.625")	5/16" Gal. Steel Strand (.312")	.69"	15,000 lb.	31.30

IMPROVED "CHICAGO" GRIPS FOR HOT LINE WORK

FOR BARE CONDUCTORS



May be placed on wire with hot line stick. For hot or dead work grips can be furnished with springs. If springs are desired, prefix letter "S" before catalog number. Lack open feature furnished on special order.

Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1613-40H	1/0 B&S Strand (.373")	10 B&S Solid (.102")	.44"	4,500 lb.	\$9.20
1613-40BH	1/0 B&S Strand (.373")	10 B&S Solid (.102")	.44"	4,500 lb.	12.20
1628-5H	4/0 B&S Strand (.552")	6 Solid (.162")	.58"	8,000 lb.	12.60
1628-5BH	4/0 B&S Strand (.552")	6 Solid (.162")	.58"	8,000 lb.	16.10
1656-20BH	1/0 A.C.S.R. (.398")	6 A.C.S.R. (.198")	.50"	4,500 lb.	12.20
1656-30BH	3/0 A.C.S.R. (.502")	2 A.C.S.R. (.316")	.56"	4,500 lb.	14.45
1656-40BH	336,000CM A.C.S.R. (.741")	3/0 A.C.S.R. (.502")	.75"	8,000 lb.	22.55
1656-50BH	336,000CM A.C.S.R. (.883")	397,500CM A.C.S.R. (.783")	.94"	8,000 lb.	22.55
*1656-ABH	500,000CM A.C.S.R. (.904")	3/0 A.C.S.R. (.502")	.94"	8,000 lb.	28.15

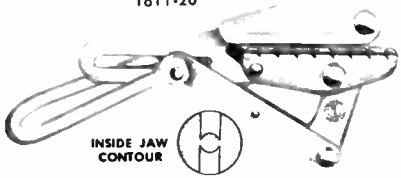
*For use on aluminum cables where minimum conductor damage is essential, we hold stock of parts and jaws are milled to fit exact diameter of cable. Range of conductor size is given for general information and is made for one size cable only. ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE.

FOR INSULATED CONDUCTORS

Cat. No.	Max. Conductor	Min. Conductor	Approx. Max. Opening	Safe Load	Each
1611-20H	.420"	.198"	.50"	4,500 lb.	\$9.45
1611-30H	.500"	.313"	.56"	4,500 lb.	11.15
1611-40H	.700"	.500"	.75"	8,000 lb.	17.30
1611-50H	.860"	.672"	.94"	8,000 lb.	17.30
1659-20H	.420"	.200"	.46"	4,500 lb.	14.80
1659-30H	.500"	.313"	.56"	4,500 lb.	16.15
1659-40H	.796"	.490"	.83"	8,000 lb.	24.85
1659-50H	1.014"	.796"	1.04"	8,000 lb.	24.85

KLEIN GRIPS

1611-20



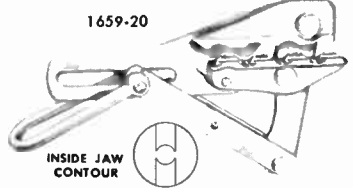
"CHICAGO" GRIPS FOR WEATHERPROOF WIRE

All sizes of wire shown are for "Weatherproof."

Cat. No.	Max. Wire Size	Min. Wire Size	Approx. Max. Opening	Safe Load	Each
1611-20	.420"	.198"	.50"	4,500 lb.	\$6.95
1611-30	.500"	.313"	.56"	4,500 lb.	8.35
1611-40	.700"	.500"	.75"	8,000 lb.	14.50
1611-50	.860"	.672"	.94"	8,000 lb.	14.50

Note: Due to various types of weatherproof coatings available, selection of grips is determined by O.D. of cable.

1659-20



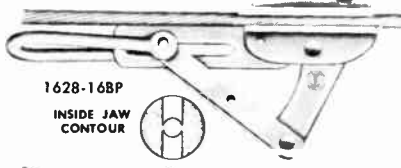
"CHICAGO" GRIPS FOR PVC COVERED CONDUCTORS

All sizes of wire shown are for "Weatherproof."

Specially machined jaws allow snaking insulated conductors through jaws, eliminating slippage and preventing conductor damage. No necessity to strip insulation from conductor.

Cat. No.	Max. Conductor	Min. Conductor	Approx. Max. Opening	Safe Load	Each
1659-20	.420"	.200"	.46"	4,500 lb.	\$12.00
1659-30	.500"	.313"	.56"	4,500 lb.	13.35
1659-40	.796"	.490"	.83"	8,000 lb.	22.05
1659-50	1.014"	.796"	1.04"	8,000 lb.	22.05

1628-16BP



"CHICAGO" GRIPS FOR LARGE DIAMETER CONDUCTORS

For hollow conductors and other large diameter cables, jaws must be shaped to provide maximum contact with the circumference of the cable. We hold grips in blank and finish as necessary. Allow 30 days for delivery.

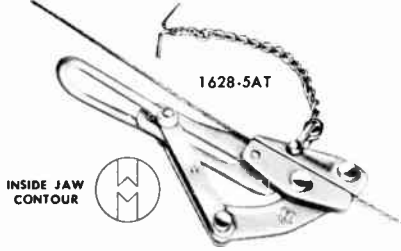
ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE. MADE FOR ONE SIZE CABLE ONLY.

Cat. No.	Max. Cable Size	Min. Cable Size	Approx. Max. Opening	Safe Load	Each
1628-16BP	605,000CM A.C.S.R.	2 A.C.S.R. (.316")	1.06"	15,000 lb.	\$42.00
1628-30	1,033,500CM A.C.S.R.	477,000CM A.C.S.R. (.833")	1.35"	20,000 lb.	68.50
1628-30B	1,033,500CM A.C.S.R.	477,000CM A.C.S.R. (.833")	1.35"	20,000 lb.	88.00
1628-40	1,590,000CM A.C.S.R.	1,033,000CM A.C.S.R. (1.246")	1.60"	25,000 lb.	92.00
1628-40B	1,590,000CM A.C.S.R.	1,033,000CM A.C.S.R. (1.246")	1.60"	25,000 lb.	124.00
*1628-50	2,500,000CM A.C.S.R.	666,600CM A.C.S.R. (1.00")		25,000 lb.	97.00
*1628-50B	1,780,000CM A.C.S.R.	666,600CM A.C.S.R. (1.00")		25,000 lb.	128.00

B indicates bronze lined jaws.

*Furnished with removable floating jaw, which allows maximum coverage of cables and eliminates conductor damage, particularly under heavy loads. The removable jaw is held in place by a bolt swaged into the lever arm grip secured by a nut and catter pin. It is necessary to remove the jaw of the grip to insert the cable.

1628-5AT



"CHICAGO" GRIPS BELL SYSTEM TYPE

Cat. No.	Max. Cable Size	Min. Cable Size	Approx. Max. Opening	Safe Load	Each
1628-5AT	½" Gal. Steel Strand (.500")	¼" Gal. Steel Strand (.250")	.58"	8,000 lb.	\$12.60
1628-16AT	½" Gal. Steel Strand (.500")	⅜" Gal. Steel Strand (.212")	.56"	15,000 lb.	28.00

"CHICAGO" GRIPS FOR FIGURE 8 TELEPHONE CABLES

Cat. No.	Max. Cable Size	Min. Cable Size	Safe Load	Each
1613-80	.109 support wire max. .174"	.149"	1,500 lb.	\$6.65

For support wire .134 and larger, refer to 1656 series. Outside diameter of support wire includes thickness of Polyethylene coating. Grips are applied to supporting member of cable.

"CHICAGO" GRIPS

Cat. No.	Cable Size	Safe Load	Each
1659-5AT	¼"	5,000 lb.	\$19.35

Designed to pull ¼ in. figure 8 telephone cable. Serpentine grooves prevent slippage. Fitted with chain, taggle and shackle.

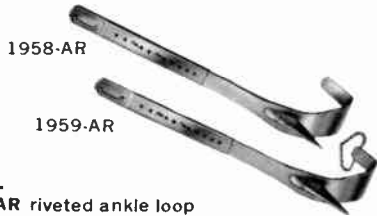
IMPROVED HAVENS GRIPS

Cat. No.	Max. Cable Size	Min. Cable Size	Approx. Max. Opening	Safe Load	Each
1604-10	4 B&S (.204")	14 B&S (.064")	.24"	2,500 lb.	\$4.15
1604-20	.500 Steel Strand	7 B&S (.144")	.53"	5,000 lb.	5.20
1604-20L	.500 Steel Strand	7 B&S (.144")	.53"	5,000 lb.	6.05
1625-20	.750 Wire Rope	2 B&S (.284")	.78"	8,000 lb.	9.25
					9.90

Can be furnished on special order for ⅜" or 1" cable

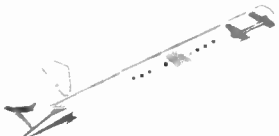
KLEIN CLIMBERS

REPLACEABLE GAFF ADJUSTABLE CLIMBERS



Cat. No.	Pair
1958-AR riveted ankle loop	\$13.45
C1958-AR with straps and pads	20.15
1958-AR-L adjustable 17"-21"	13.65
C1958-AR-L with straps and pads	20.35
1959-AR triangular ankle ring	13.45
C1959-AR with straps and pads	21.35
1959-AR-L adjustable 17"-21"	13.65
C1959-AR-L with straps and pads	21.55
59 Replaceable gaff with screw	4.80

**"POLE MASTER" CLIMBERS—ADJUSTABLE
PAIRS MATCHED RIGHT AND LEFT**



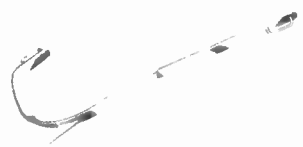
Cat. No.	Pair
1945-A	\$11.05
C1945-A with straps and pads	18.95
1945-AL adjustable 17"-21"	11.25
C1945-AL with straps and pads	19.15

**RIVETED LOOP ADJUSTABLE CLIMBERS
PAIRS MATCHED RIGHT AND LEFT**



Cat. No.	Pair
1957-A	\$11.05
C1957-A with straps and pads	17.75
1957-AL adjustable 17"-21"	11.25
C1957-AL with straps and pads	17.95

STANDARD CLIMBERS—ADJUSTABLE



Cat. No.	Each
1901-M-A	\$12.00
C1901-M-A with straps and pads	16.85
1901-M-AL adjustable 17"-21"	10.45
C1901-M-AL with straps and pads	17.05

TREE CLIMBERS—ADJUSTABLE



Cat. No.	Each
1907-A	\$12.00
C1907-A with straps and pads	18.65
1907-AL adjustable 17"-21"	12.35
C1907-AL with straps and pads	19.00

NYLON CLIMBER STRAPS



Cat. No.	Pair
5301-18 pair calf straps 1" x 22"	\$2.40
5301-21 pair calf straps 1 1/4" x 22"	2.75
5301-19 pair ankle straps 1" x 26"	2.60
5301-22 pair ankle straps 1 1/4" x 26"	3.00

LEATHER CLIMBER STRAPS WITH SQUARE PADS



Set consists of 2 calf straps, 1 1/4" x 22", 2 ankle straps, 1 1/4" x 22", 2 square pads, 4" x 4".

Cat. No.	Set
5301-1 plain pads	\$5.85
5301-2 sheep lined pads	6.55
5301-3 felt lined pads	6.55

LEATHER CLIMBER STRAPS WITHOUT PADS



Cat. No.	Pair
5301-4 pair calf straps, 1 1/4" x 22"	\$2.55
5301-9 pair calf straps, 1" x 22"	2.25
5301-14 pair ankle straps, 1 1/4" x 26"	2.75
5301-10 pair ankle straps, 1" x 26"	2.45

LEATHER ANKLE STRAPS (TWO PIECES)



Cat. No.	Pair
5301-16 pair, 1 1/4" x 24" without ring	\$4.20
5301-26 pair, 1" x 24" without ring	3.65

NYLON ANKLE STRAPS (TWO PIECES)



Cat. No.	Pair
5301-20 pair, 1" x 24" without ring	\$4.00
5301-23 pair, 1 1/4" x 24" without ring	4.40

ANKLE CLIMBER PADS



Cat. No.	Pair
8210 pair, 8" x 8"	\$4.40

"BELL SYSTEM" CLIMBER PADS
6 1/4" x 3 3/4" tapering to 2 3/4"



Cat. No.	Pair
8203 pair plain	\$1.65
8204 pair sheep lined	2.75
8205 pair felt lined	2.75

LONG CLIMBER PADS
9" x 3 1/4"



Cat. No.	Pair
8207 pair plain	\$1.95
8208 pair sheep lined	2.85
8209 pair felt lined	2.80

SQUARE CLIMBER PADS
4" x 4"



Cat. No.	Pair
8200 pair sheep lined	\$1.55
8201 pair felt lined	1.45
8202 pair plain	1.00

KLEIN BELTS—STRAPS—POCKETS

LIGHTWEIGHT CUSHION TOOL BELT

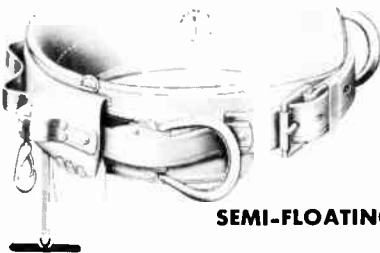
Sizes: 34, 36, 38, 40, 42, 44, 46, 48 in.



Cat. No. Width Each
5262 5" \$23.60

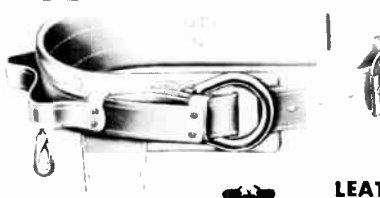
FULL-FLOATING "KLEIN-LINE" TOOL BELT

Sizes: 34, 36, 38, 40, 42, 44, 46, 48 in.



Cat. No. Width Each
5249 4 3/4" \$33.45

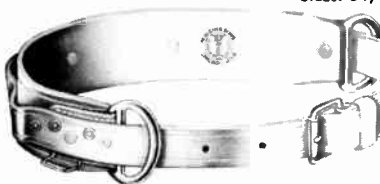
SEMI-FLOATING LEATHER TOOL BELT



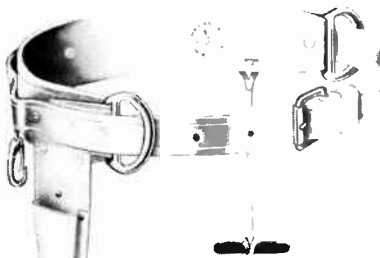
Cat. No. Width Each
5228 4 1/2" \$27.70

LEATHER TOOL BELT

Sizes: 34, 36, 38, 40, 42, 44, 46, 48 in.



Cat. No. Width Each
5204 4 1/2" \$11.90
5204-L Latigo leather lined 15.85



5204-DE plier pocket, tape thong, glove ring 15.50
5204-DEL Latigo leather lined 19.35

DERRICK BELT ADJUSTABLE 36" TO 44"



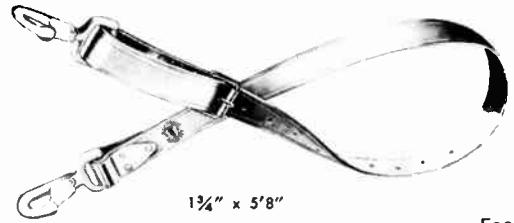
Cat. No. Width Each
5212 Leather \$17.80
5212-KK Klein Kord fabric 24.85

STEELWORKERS' BELT ADJUSTABLE 36" TO 44"



Cat. No. Width Each
5214 Leather \$16.10

HARNESS LEATHER SAFETY STRAP



1 3/4" x 5'8"

Cat. No. Width Each
5250 Standard snaps \$12.90
KL5250 "Klein-Lok" snaps 15.10

DOUBLE THICK LATIGO LEATHER — SEWN WITH HOT WAXED LINEN THREAD

1 3/4" x 5'8"

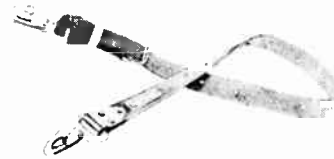
Cat. No. Width Each
5259 Standard snaps \$16.60
KL5259 "Klein-Lok" snaps 18.80

"BELL SYSTEM" TYPE — DOUBLE TONGUE BUCKLE

Cat. No. Width Price Each
5257-S 2" x 5' 1 1/2" Standard snaps \$14.75
5257-L 2" x 5' 10" Standard snaps 14.90

"KLEIN-KORD"* ALL NYLON SAFETY STRAP RED CENTER. MEETS EEI SPECIFICATIONS

*Trademark registered patent 2152943



Standard length 5'8" Available 6', 6'6", 7', 8'

Cat. No. Width Price Each
5295 1 3/4" x 5'8" Standard snaps \$12.40
KL5295 1 3/4" x 5'8" "Klein-Lok" snaps 14.55

ELECTRICIANS' POCKETS



5190

5126

5127

5164

Cat. No.	Size	Each
5190	8 3/4" x 6"	\$5.55
5126	6 1/2" x 8 1/2"	3.95
5127	7" x 10"	4.85
5164	7" x 10"	6.55



5166



5118-PRS.



5129

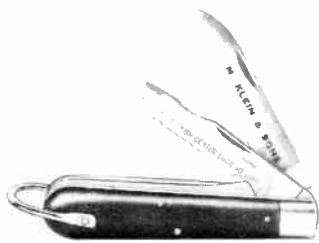


5138

Cat. No.	Size	Each
5166	7" x 10"	\$6.25
5118-PRS.	6 1/2" x 8 3/4"	3.95
5129	3" x 8"	2.05
5138	3" x 8"	2.55

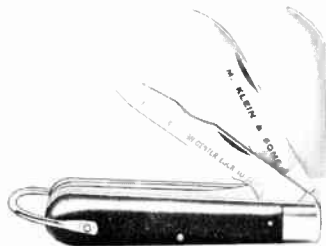
KLEIN EQUIPMENT

"XELA" ELECTRICIAN'S KNIFE



Cat. No. **1550-2** Each **\$2.80**
Two blades and screwdriver
3¾" closed length.

"XELA" THREE BLADE KNIFE



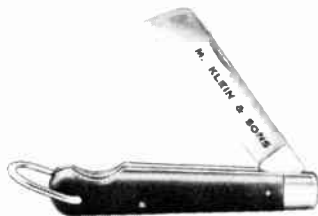
Cat. No. **1550-6** Each **\$3.50**
Three blades and screwdriver
3¾" closed length.

"XELA" LINEMEN'S KNIFE



Cat. No. **1550-4** Each **\$3.00**
4" closed length.

"XELA" SKINNING KNIFE



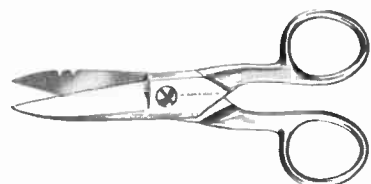
Cat. No. **1550-5** Each **\$2.40**
3½" closed length.

"XELA" ELECTRICIANS' SCISSORS



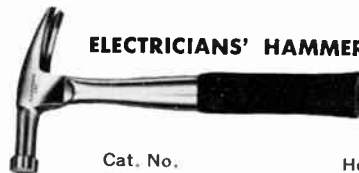
Cat. No. **2100-5** Size **5"** Each **\$3.50**

"XELA" ELECTRICIANS' SCISSORS



Cat. No. **2100-7** Size **5"** Each **\$3.60**
With stripping notch and serrated blade

ELECTRICIANS' HAMMER



Cat. No.	Head	Overall Length	Each
805-18 Hickory Handle	18 oz.	14"	\$5.50
806-18 Tubular Steel Handle	18 oz.	14"	6.50

CUSHION GRIP HANDLE



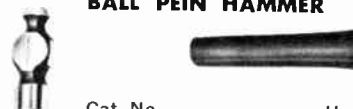
Cat. No.	Head	Overall Length	Each
802-16 Steel Handle	16 oz.	13¼"	\$6.45
802-20 Steel Handle	20 oz.	14"	6.80
801-16 Hickory Handle	16 oz.	13¼"	5.60
801-20 Hickory Handle	20 oz.	14"	6.00

LINEMAN'S HAMMER



Cat. No.	Head	Overall Length	Each
804-36 Hickory Handle	36 oz.	15½"	\$6.40

BALL PEIN HAMMER



Cat. No.	Head	Overall Length	Each
803-12 Hickory Handle	12 oz.	12¾"	\$3.90

LINEMEN'S WRENCH



Cat. No.	Size	Each
3146	Large end—1½" and 2¼" Small end—¾" and 5/8"	\$4.70

LINEMEN'S WRENCH



Cat. No.	Size	Each
3146-A	Large end—1½" and 1¾" Small end—5/8" and 7/8"	\$4.90

LINEMEN'S WRENCH

"BELL SYSTEM" TYPE—NEMA HARDWARE SPECIFICATIONS

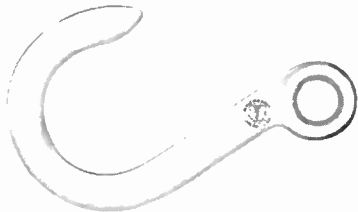


Cat. No.	Size	Each
3146-B	13" Large end—1½" and 1¾" Small end—1½" and 7/8"	\$4.90

KLEIN HOOKS-TACKLE-HAND LINES

ANCHOR HOOK FOR TACKLES

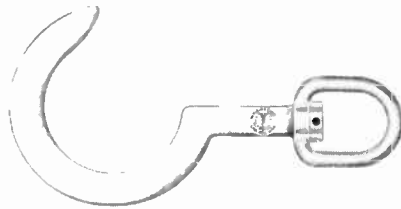
5¼" x 3¼". Eye inside diam. ¾" to engage snap on Klein Tackle 1802-30 and H1802-30



Cat. No.	Safe Load	Each
258	1,500 lb.	\$1.20

SWIVEL ANCHOR HOOK FOR TACKLES

6½" x 3¼". Eye inside diam. ¾" swivel clevis will engage snap on Klein Tackles 1802-30 and H1802-30



Cat. No.	Safe Load	Each
259	1,500 lb.	\$1.60

HAND LINE SNAP HOOK

Length 5½". Eye 1" I.D. Snap opens to ¾"



Cat. No.	Safe Load	Each
443-A	2,000 lb.	\$1.60

SWIVEL HAND LINE SNAP

Designed for ½" or lighter hand lines.

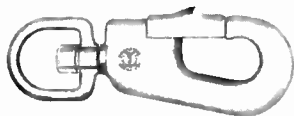


Cat. No.	Safe Load	Each
470	750 lb.	\$1.70

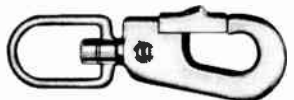
ANCHOR HOOK FOR TACKLES



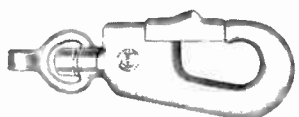
Cat. No.	Description	Each
455	Solid eye	\$2.75



455-S	Swivel eye ¾" long	4.25
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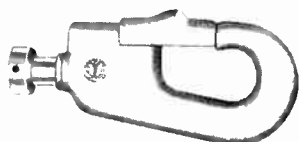


455-SCE	Long eye 1½" long	4.80
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455-SH	Swivel eye for ¾ ton hoist	4.50
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455-SH-3	Swivel eye for 1½ ton hoist	4.50
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455-SP	With male fixture for 1½ ton hoist	4.00
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455-SP-6	With male fixture for 3 ton hoist	4.00
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SELF-LOCKING BLOCK TACKLE

Furnished with 25¾" Manila rope



Cat. No.	Description	Safe Load	Each
1802-30	Detachable hook Cat. No. 258	1,200 lb.	\$6.85
1802-30S	Detachable swivel hook Cat. No. 259	1,200 lb.	7.25

SELF-LOCKING BLOCK TACKLE

(with guarded snaps)
Furnished with 25¾" Manila rope



Cat. No.	Description	Safe Load	Each
H1802-30	Detachable hook Cat. No. 258	1,200 lb.	\$7.30
H1802-30S	Detachable anchor hook Cat. No. 259	1,200 lb.	7.70

HAND LINE

75' Manila rope spliced to eye of snap hook. Hook opens to ¾"



Cat. No.	Description	Each
1803-60	¾" rope and Cat. No. 443-A snap hook	\$6.10
1804-60	¾" rope and Cat. No. 470 swivel snap hook	6.20
1803-75	½" rope and Cat. No. 443-A snap hook	9.75
1804-75	½" rope and Cat. No. 470 swivel snap hook	9.95

HOWE WIRE TOOL



Cat. No.	Size	Each
1702-20	Leather strap 1¼" x 7'	\$8.25
241	Extra leather strap	3.15
1702-20N	Nylon strap 1¼" x 7'	7.75
241-N	Extra nylon strap	2.80

"CHICAGO" LINEMEN'S TOOL



Cat. No.	Size	Each
1700-30	Leather strap For 6 wire down to 12 B&S	\$11.45
241	Extra leather strap	3.15
1700-30N	Nylon strap For 6 wire down to 12 B&S	10.95
241-N	Extra nylon strap	2.80

OSHKOSH TOOLS

DIGGING SPUD WITH TAMPER



A light, nicely balanced, efficient digging tool. Handle is of steel tubing with tamping head and blade shrunk tightly onto handle.

Cat. No.	Feet	Wt. Lbs. Each	Each
852	9	20	\$21.05

POLE SUPPORTS

WOODEN JENNY



Made of clear select Washington Fir. Light in weight and easily collapsible for carrying in trucks. Pikes are placed on the bottom of each leg to prevent slipping on hard surfaces.

Cat. No.	Height Feet	Wt. Lbs.	Each
842	6	25	\$27.40
843	7	30	30.75
844	8	35	33.75

WOODEN MULE SUPPORT



Made of round select Washington fir, tapering slightly at both ends, with hand-forged, crucible-steel fork and pick. Both ends of support are fitted with steel bands to prevent splitting.

Cat. No.	Diam. In.	Length Pole, Ft.	Wt. Lbs.	Each
845	4	6	23	\$33.90
846	4	7	26	35.20
847	4	8	29	38.20

FIR DEADMAN



Made of 3x3-inch-square, clear, straight-grained Washington fir. Measures 8½ feet over all; with hand-forged steel forks with 3 prongs. Pole banded at each end to prevent splitting.

Cat. No.	Length Pole, Feet	Wt. Lbs. Each	Each
740	8	40	\$37.85

STANDARD DEADMAN — A.T.&T. PATTERN



Made of 2 by 4 inch hard maple, with wrought steel fork and pike and with steel bands to prevent splitting. A very strong and durable support for heavy work.

Cat. No.	Length Pole, Feet	Wt. Lbs. Each	Each
848	8	29	\$39.50

TAMPING BARS



With Light Steel Shoe

Tamping head 1¾ x 4 in., faced with light steel shoe ¼ in. thick.

Cat. No.	Length, Ft.	Ship. Weight, Lbs.	Each
854	7	13	\$10.70
855	8	14	11.50
856	9	16	13.45



With Heavy Steel Shoe

Handle 1½ in. diameter; tamping head 1¾ x 3½ in., faced with heavy steel shoe ½ in. thick.

Cat. No.	Length, Ft.	Ship. Weight, Lbs.	Each
1054	7	13	\$12.00
1055	8	15	13.00
1056	9	17	14.15



Electric Pattern

Steel tubing 1⅝ in. diameter, with malleable iron tampers on each end—one 2¾ x 6 in., the other 2½ x 3¾ in.

No. 1044 Length, 8 ft. Ship. wt., 15 lbs., each \$13.95

CROW AND DIGGING BARS



Hexagon shape special crucible steel, strong and stiff with ability to hold edge with 2" chisel on one end, pointed on the other.

Cat. No.	Length, Ft.	Diam. In.	Shpg. Wt. Lbs.	Each
1061	7	1	20	\$11.50
1062	8	1	23	12.35
1064	7	1 ¼	26	12.95
1065	8	1 ¼	28	14.20
1066	9	1 ¼	31	16.35

TAMPING BARS



With Curved Head

Tamping head is a 7-in. radius curved steel forging 7-in. wide, 3-in. high, 1½-in. thick at the middle tapering to ¾-in. thick at each end. A 12-in. steel socket is welded to the head to hold a straight-grained second growth hard-wood handle.

Complete Tamping Bar				Extra Handle			
Cat. No.	Lgth., Ft.	Ship. Wgt. Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each	
3698-7	7	12	\$11.70	3698A-7	4	\$4.15	
3698-8	8	13	12.90	3698A-8	5	5.25	
3698-9	9	14	14.00	3698A-9	6	6.35	

TAMPING AND DIGGING BARS



Hexagon shape special crucible steel, strong and stiff with ability to hold edge. Has 2-in. chisel one end and malleable iron tamper on the other.

Cat. No.	Length, Ft.	Diam., In.	Ship. Wt., Lbs.	Each
1071	7	1	21	\$11.75
1072	8	1	24	12.55
1074	7	1 ¼	27	13.80
1075	8	1 ¼	30	15.30

OSHKOSH TOOLS

BARROW REELS



Made of heavy material for heavy wire and heavy work. Fine quality hardwood, braced and reinforced with steel. A wide bearing, with long pivot and sleeve permits reel to turn easily no matter how heavy the coil of wire on the reel. The friction developed by this bearing is not sufficient to prevent the reel from turning easily, but keeps reel from paying out the wire too fast and tangling it. Strong steel legs.

Reel pins adjustable for 12, 18 and 24 in. coils. Dimensions: 72 in. long, 42 in. wide; height over all 31 in.

No. 900—Shipping Weight 80 Lbs.each **\$63.35**
 No. 901—Extra Guard Pins; Weight Set 1½ Lbs.Per Set of 4 **5.90**

PAY-OUT REELS

For mounting in gangs on wagons or trucks when paying out several wires simultaneously.



Finished hardwood braced and reinforced with sheet steel. Overall dimensions: Diameter 34 in.; height 19 in.

Reels are adjustable for 12, 18 and 24 inch reels.

No. 902—Shipping Weight 40 Lbs.each **\$32.00**

FOLDING TAKE-UP-REELS



A handy tool to have on a truck. When taking down good wire it will coil it neatly in standard sized coils entirely undamaged. Even when taking down or picking up wire to be sold as scrap it is easier to handle and takes up less space when in coils, and takes no longer to coil with the reel as to throw it loosely on the truck.

The reel is made of malleable iron and steel. The stand is hardwood, mortised and framed, and reinforced with steel. Both the reel and the stand collapse, so that when not in use takes up very little space.

Dimensions: Stand is 36 in. high, 19 in. wide; collapses to 4½ x 19 x 39 in.

For 21 inch coil.
 No. 897—Shipping Weight 42 Lbs.each **\$43.60**

FOLDING BARRICADE



Height In.	Width, Bottom Open	Size Folded	Wt. Lbs. Per Pair	Per Pair
32	20½ x 22¾	3 x 2 x 35	25	\$17.60
42	25 x 29	3 x 2 x 44	32	22.40

WARNING SIGNS



A lightweight, extremely durable sign, the legs of which are made of ½ in. high carbon steel and will not bend. Has 1¼ in. flange around the edge of sign that acts as a reinforcement and protects the lettering from damage when being transported in trucks.

Each sign is equipped with two convenient handles for adjusting the angle of the legs. Handles are hollow and can also serve as flag sockets. Each handle is also fitted with a handy lantern lock.

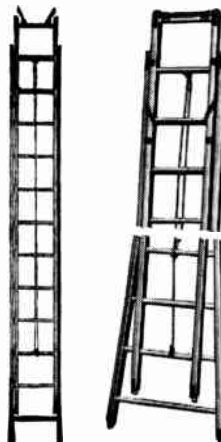
The solid black 5½-in. letters on a 20 x 20-in. background of brilliant traffic yellow flashes a signal which cannot be ignored.

The sign proper can be made luminous for night use and still be as efficient for day time use. (For prices see below).

Dimensions: 43 in. high 28 in. wide. Folds to 28 x 28 x 1¼ in. Shipping weight 23 lbs.

No. 3513—Plaineach **\$17.20**
 No. 3513L1—Luminous, One Side Onlyeach **23.20**
 No. 3513L2—Luminous, Both Sideseach **28.40**

SAFETY EXTENSION LADDERS



Designed and built especially for public utilities.

When extending the ladder, the locking device lifts up automatically to allow the rungs to pass; but, the instant operator lets go of rope, the locking device drops in place and the top section is firmly locked. To lower, the operator gives a slight pull on rope, then lets top section descend slowly—it cannot drop accidentally.

Side rails are straight-grained, properly seasoned airplane spruce. Rungs are tough Mountain Hickory, absolutely straight-grained. Each rung has a shouldered tenon joint which is pressed tightly into side rails, assuring a safe, tight fit. The side rails of each section are connected at top, middle and bottom with steel tie rods.

Each section is equipped with safety-tips and pikes and either section can be used as an individual ladder.

Other exclusive safety features: rubber faced tips; transparent safety finish; safety pole grippers; rubber guarded safety pikes. All metal parts are parkerized.

For Straight Side Rails add letter "S" to number; for Flared Side Rails add letter "F".

For Straight Side Rails add letter "S" to number; for Flared Side Rails add letter "F".

Cat. No.	Length Ft.		Cat. No.	Length, Ft.	
	Full	Ex-tended		Full	Ex-tended
EX-16	16	13	EX-32	32	\$85.40
EX-18	18	15	EX-34	34	90.80
EX-20	20	17	EX-36	36	96.05
EX-22	22	19	EX-38	38	101.35
EX-24	24	21	EX-40	40	106.90
EX-26	26	23	EX-42	42	112.05
EX-28	28	25	EX-44	44	117.40
EX-30	30	27	EX-46	46	123.15

Average Weight per Foot approx. 2½ lbs.

OSHKOSH TOOLS

PLAIN DIGGING BARS



Hexagon shape special crucible steel, strong and stiff with ability to hold edge with 2-in. chisel on end.

Cat. No.	Length, Ft.	Diam., In.	Ship. Wt., Lbs.	Each
1081	7	1	20	\$11.60
1082	8	1	23	12.65
1084	7	1 1/8	26	13.35
1085	8	1 1/8	28	14.55

POLE HOLE SHOVELS



Straight Patterns

These shovels are absolutely straight from end to end. This makes them stiff and much handier in lining up the sides of hole.

Handles are selected second growth Northern white ash, or tough strong Highland Hickory as below. They are 1 1/8-in. diameter. (All have foot-age marks to indicate depth hole.)

Blades and straps are natural black finish. Straps 22-in. long, riveted.

Note: For hickory handles, add "H" to catalog number.

Length Handle Ft.	Ship. Wt. Lbs.	With Carbon Steel Blades		Master With Alloy Steel Blades	
		Cat. No.	Each	Cat. No.	Each
7	8	1032	\$10.70	2032	\$11.45
8	9	1033	11.50	2033	12.35
9	10	1034	12.40	2034	13.55
10	11	1035	13.50	2035	14.65
12	14	1036	15.20	2036	16.50

POLE HOLE SHOVEL AND SPOON HANDLES

Selected second growth Northern White ash, or, tough, strong Highland Hickory. 1 1/8" diameter.

Length Ft.	Ship. Wt. Lbs.	Cat. No.	Each	All-Seasoned Best Grade	
				Cat. No.	Each
7	6	1005	\$ 5.20	2005	\$ 5.25
8	6	1006	5.95	2006	6.00
9	7	1007	7.00	2007	7.05
10	7	1008	8.65	2008	8.70
12	8	1009	10.25	2009	10.30

Note: For hickory handles, add "H" to catalog number.

POLE HOLE DIGGERS



No. 2050



No. 2051

Will dig a hole 6 in. in diameter. Handles are conveniently marked to enable workman to determine depth of hole.

Special alloy steel blades securely welded to fulcrum members which are heavy channel-shaped steel forgings. One pivot point on each side of blade give greater leverage and durability. Handles are straight-grained hardwood 8 ft. long.

Made in two models — with split handles or with two solid handles.

No.	Type Handle	Ship. Wt., Lbs.	Each
2050	Split	13	\$17.05
2051	Two, Solid	14 1/2	17.05
Extra Handles			
2050A	Split	6	Per Pr. \$7.25
2051A	Two, Solid	6 1/2	Per Pr. 7.25

POLE HOLE SPOONS



Western Pattern



Eastern Pattern

Handles are selected second growth Northern white ash, or tough, strong Highland hickory as below. They are 1 1/8 in. diameter. (All have foot-age marks to indicate depth of hole.)

Blades and straps are natural black finish. Straps 22 in. long, riveted.

***Ash or Hickory Handles**

Western Pattern				Eastern Pattern			
Cat. No.	Length, Ft.	Ship. Wt. Lbs.	Price Each	Cat. No.	Length, Ft.	Ship. Wt. Lbs.	Each
1023	7	10	\$10.90	1023E	7	10	\$10.90
1024	8	10	11.55	1024E	8	10	11.55
1025	9	11	12.45	1025E	9	11	12.45
1026	10	12	13.50	1026E	10	12	13.50
1027	12	14	15.00	1027E	12	14	15.00

Master Heat-treated Alloy Steel Blades

*Ash or Hickory Handles				*Ash or Hickory Handles			
Cat. No.	Length, Ft.	Ship. Wt. Lbs.	Price Each	Cat. No.	Length, Ft.	Ship. Wt. Lbs.	Each
2023	7	10	\$11.60	2023E	7	10	\$11.60
2024	8	10	12.40	2024E	8	10	12.40
2025	9	11	13.55	2025E	9	11	13.55
2026	10	12	14.65	2026E	10	12	14.65
2027	12	14	16.45	2027E	12	14	16.45

*If hickory handles are wanted add "H" to catalog number.

COMBINATION PAY-OUT AND TAKE-UP REELS



An extremely lightweight, strong and durable Pay-Out and Take-Up Reel all in one. Steel tubing frame. The guide pins fold flat and the entire reel is compact and easy to carry or slide on truck.

Guide pins are easily and quickly adjusted to take coils of wire as below.

Automatic Brake—as the wire is pulled the brake releases and the wire pays out freely. The instant tension is slackened the brake sets and prevents back-lashing.

Easily converted into a take-up reel by using two braces furnished to hold reel in upright position. Hand crank, which is also furnished makes possible a fast and easy job of taking-up.

Carrier frame easily removable so that reel can be bolted to truck. A thumbscrew terminal is provided for grounding reel.

Will hold coils of wire—inside diameter 13 to 27 in.; outside diameter 34 in.

Dimensions: Length overall 63 in.; width 34 in.; height overall (guides up) 13 3/4 in.; guides down, 8 3/4 in.

Cat. No.	Description	Each
3555	Complete; Shipping Weight 75 lbs.	\$153.20
3555A	Reel Only, without Carrying Frame.	
	Shipping Weight 60 Lbs.	139.45

OSHKOSH TOOLS

PEAVIES



Malleable iron socket. Duck bill hook and pike hammered out of crucible steel. Has stop to prevent hook falling back on handle.

Complete Peavy					Extra Handles		
Cat. No.	Length Handle Ft.	Diam. Handle In.	Ship. Wt., Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each
With Second Growth Hickory Handles							
134	4	2 1/4	8	\$11.20	572	3	\$3.45
135	4 1/2	2 1/4	8	11.70	573	3	3.85
137	4	2 1/2	9	11.60	575	4	3.85
138	4 1/2	2 1/2	10	12.25	576	4	4.15

CANT HOOKS



Malleable iron clamp and toe ring. Crucible steel duck bill, with stop to prevent hook falling back onto handle and injuring fingers.

Complete Cant Hook					Extra Handles		
Cat. No.	Length Handle Ft.	Diam. Handle In.	Ship. Wt., Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each
With Second Growth Hickory Handles							
199A	4	2 1/4	7	\$ 9.70	572	3	\$3.45
200A	4 1/2	2 1/4	8	10.10	573	3	3.85
199	4	2 1/2	8	10.10	575	4	3.85
200	4 1/2	2 1/2	9	10.50	576	4	4.15

SWIVEL POINT CANT HOOKS



Malleable iron clasp and toe ring. Hooks of crucible steel, swivel points of crucible steel and also heat-treated for further strength. Stop to prevent hook falling back onto handle and injuring fingers. Clear straight-grained, first quality hardwood handle.

Complete Cant Hook					Extra Handles		
Cat. No.	Length Handle Ft.	Diam. Handle In.	Ship. Wt., Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each
3989	4	2 1/4	8	\$11.45	572	3	\$3.45
3990	4 1/2	2 1/4	9	11.85	573	3	3.85
3994	4	2 1/2	9	14.55	575	4	3.85
3995	4 1/2	2 1/2	10	15.00	576	4	4.15

E-Z UP POLE CRADLE



Oshkosh Pole cradle is made of aluminum, measures approximately 18" x 15" x 9". It is capable of handling poles with a diameter of up to 1 1/2". Weight, 23 lbs.

No. 4241 Aluminum.....each \$51.10

CARRYING OR LUG HOOKS



Chisel Point Pattern

For Carrying Poles, Timbers, Etc. Clear straight-grained, first quality hardwood handle. Crucible tool steel hooks attached to malleable iron clasp and swivel for easy carrying.

Complete Hooks					Extra Handles		
No.	Length Handle Ft.	Diam. Handle In.	Ship. Wt., Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each
295	4	2 1/2	7	\$ 9.10	593	3	\$4.00
296	4 1/2	2 1/2	8	9.50	594	4	4.30
297	5	2 1/2	8	9.95	595	4	4.55
298	5	3	12	14.10	963	5	5.55
299	6	3	13	14.70	964	6	6.50
300	7	3	14	15.15	965	7	8.05

PIKE POLES



One piece special steel pike with upset face to take the end thrust and distribute it over entire end of handle. Pike set in oil with rivet through malleable iron ferrule, handle and pike. (Pike projects 4 in.)

Straight, close-grained old growth yellow Washington fir handle (No Finish). Coated with Special Finish at Slight additional cost.

Standard Light Pattern

*Diameter Handle 2 In.

Pike Pole Complete				Extra Handles		
Cat. No.	Length Ft.	Ship. Wt., Lbs.	Each	Cat. No.	Ship. Wt., Lbs.	Each
806	12	8	\$ 8.80	971	7	\$ 7.50
807	14	10	9.55	972	9	8.30
808	16	11	10.30	973	11	9.15

A. T. & T. Pattern

Diameter Handle 2 1/2 In.

818	12	13	\$11.15	982	12	\$ 9.70
819	14	14	12.35	983	13	10.65
820	16	15	13.45	984	14	11.65
821	18	18	14.35	985	16	12.65
822	20	20	15.65	986	19	13.80

*Diameter at center; Tapers to 2 in. at both ends.

PIKE POLE GUARDS



For guarding the dangerous point on pike poles. Will fit either the 2" or 2 1/2-inch poles.

The guard works very easy and fastens securely in either guarding or open position. When in guarding position it locks automatically in place and affords complete protection from pike point. When not in guarding position it fits snugly around the pole completely out of the way.

(Can be attached to Pike Pole at Cost of guard only.)

No. 10—Shipping weight 3/4 lb.each \$2.80

EZ-UP POLE CRADLE



This is a device used in connection with a Cant Hook for lifting poles into position for operating or bolting on cross-arms or anything else which might require one end of the pole to be lifted off the ground to work on it.

Used in connection with a Cant Hook, it is very easy for the operator to use; prevents injury from lifting strain and will hold the pole so that it will not roll while they are working on it.

Cat. No.	Description	Wt. Lbs.	Each
3668	Ez-Up Pole Cradle	25	\$38.70

OSHKOSH TOOLS

SECTIONAL LADDERS



These ladders are handy to have around for miscellaneous uses where a long extension ladder cannot be used. For small service trucks, one or two of these sections can be hooked on and carried all the time for emergency use.

The sections join together interchangeably. One section fits into the other at either end as shown in illustration. The joint is stiff, solid and secure. Do not use more than three sections to make one long ladder.

The material used in these ladders is the same as in Safety Extension Ladders, but do not include any of their safety features. Sections lap 1-ft. when joined together.

Length 6 feet. Outside width, top, 16½ in.; inside width, bottom, 17 in. Rungs 1½ in. diameter. Rails 1¼ v 2¼ in. Wt. 11 lbs.

Special length sections can be furnished if wanted; also rubber pikes on special order. Contact Graybar for specials.

No. 3595-102—6-Ft. Lengthper section **\$13.55**

ALLEY ARM LADDERS



These ladders are for use on some of the most difficult jobs; one of the most common uses being high line tower arms. Can be furnished with aluminum hooks having 3¼" radius and opening to 4¾" at the widest part. Also can furnish with folding hooks made of ½" steel bar stock and bent with a radius of 3", with opening at the hook end of 8¾".

Cat. No.	Ladder Length, Feet	Wt. Lbs.	Each
With Aluminum Hooks			
4407-8	8	23	\$59.45
4407-10	10	28	63.30
4407-12	12	32	67.15
With Folding Hooks			
4250-8	8	28	57.35
4250-10	10	33	61.20
4250-12	12	37	65.05

SKIDDING TONGS



Tongs are made of hexagon crucible hook steel, noted for its stiffness and strength. Oshkosh Skidding Tong are ideal for use in pole yards and on boom trucks. Hooks are so designed so that they will grip the pole firmly but will not damage the pole. Available with ring only or ring and swivel hook.

Cat. No.	Size In.	Opens To: (Inches)	Each*	Cat. No.	Each**
378	¾	16	\$13.30	384A	\$12.45
379	⅞	21	15.50	384B	14.70
380	1	24	17.45	384	16.50
381	1 ¼	32	19.30	385	18.20
382	1 ½	36	24.30	386	23.10

*With ring and swivel hook.
**With ring only.

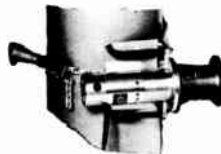
PARKE THOMPSON PORTABLE CAPSTAN HOISTS

MODEL 500 CAPSTAN HOIST



The Model 500 Capstan Hoist has been designed for a wide variety of pulling and lifting work especially for use in the construction and maintenance of electrical systems.

Pole setting, heavy equipment transporting, medium cable pulling, wire stringing and heavy hardware lifting are jobs handled by this model. No. 500H Power Unit.....each **\$388.00**



No. 500 Pole Hoist Assembly For Pole Mounting

Consists of 500H Power Unit, 501 Pole Bracket and 502A Pole Clamp. Shipping weight, 41 lbs. No. 500 Pipe.....each **\$435.00**



No. 500 Tower Hoist Assembly For Tower Mounting

Consists of 500H Power Unit, 502 Universal Bracket and 522C Hook Clamps. Shipping weight, 40 lbs. No. 500 Tower each **\$440.00**



No. 500 Puller Hoist Assembly For Pulling Applications

Consists of 500H Power Unit, 523 Puller Mount, 523P Idler Pulley, 533R Wire Reel and 533A Anchors. Shipping weight, 113 lbs. No. 500 Puller.....each **\$665.00**



No. 500 Pipe Hoist Assembly For Pipe Mounting

Consists of 500H Power Unit, 502 Universal Bracket, and 502A Pole Clamp. Shipping weight, 41 lbs. No. 500 Pipe.....each **\$435.00**



No. 500 Deck Hoist Assembly For Deck Mounting

Consists of 500H Power Unit, and 502 Universal Bracket. Shipping weight, 35½ lbs. No. 500 Deck.....each **\$410.00**

HKP HARD METAL CUTTER



This is a standard hard metal cutter with a swing-a-way keeper recommended for cutting guy wire, (galvanized steel strand). The keeper prevents cable from spreading and deforming and insures clean, complete cutting of all strands. Cuts medium steel, hard steel, reinforcing rod, bolts, rivets, screws, stainless steel, tempered spring wire.

Tool No.	Length Inches	Capacity Inches	Wt. Lbs. Each	Price Each
390MCK	36	$\frac{7}{8}$ *	14 $\frac{1}{2}$	\$38.00
590MCK	42	$\frac{1}{2}$ **	18 $\frac{3}{4}$	56.00

* $\frac{7}{8}$ " medium steel. ** $\frac{1}{2}$ " medium steel.

HKP WIRE ROPE AND CABLE CUTTERS



CABLE CUTTER — RATCHET TYPE

Designed especially for fast, smooth shearing cuts of copper, aluminum, rubber and lead covered power and communication cable. Combination ratchet and chain allows jaws to cut and hold cable firmly while handles are opened and closed. Ratchet applies increased cutting pressure.

Capacities: Telephone Cable (Except self-supporting) — 2".

Tool No.	Length Inches	Jaw Opening Inches	Wt. Lbs. Each	Price Each
8690FS	27 $\frac{1}{2}$	2	9 $\frac{1}{2}$	\$95.00

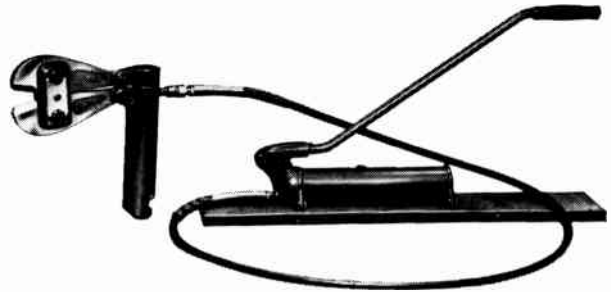
CABLE CUTTER — HARD CABLE — RATCHET TYPE

Fast, smooth shearing cuts of hard cable with no flattening, no distortion, no burrs or sharp edges. Gentle pressure opens and closes handles and ratchet moves up chain.

Capacities: Telephone Cable (including self-supporting) — 1 $\frac{3}{8}$ " Specification Strand — 16M ($\frac{7}{8}$ "), Common Steel Strand — $\frac{1}{2}$ ", Soft Steel Rods, Bolts — $\frac{1}{2}$ ", Wire Rope — $\frac{3}{8}$ ".

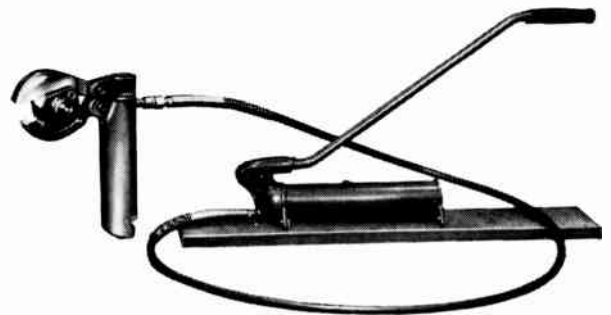
Tool No.	Length Inches	Jaw Opening Inches	Wt. Lbs. Each	Price Each
8690FH	29 $\frac{3}{4}$	1 $\frac{3}{8}$	10 $\frac{1}{2}$	\$95.00

HKP HAND HYDRAULIC CUTTERS



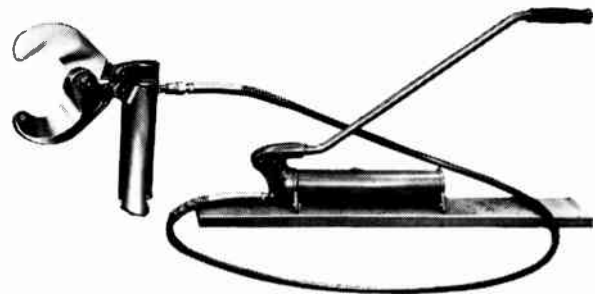
Model 1790CD

For cutting soft or medium-hard metals, concrete reinforcing rod, stainless steel, etc. Cold rolled steel through $\frac{5}{8}$ " and hot rolled steel through $\frac{3}{4}$ ". Complete unit including heavy duty center cut cutterhead, ram, pump, hose and coupling.....each \$.....



Model 1790TN

For cutting soft or medium-hard coarse stranded guy wire, wire rope and cable through $\frac{3}{4}$ " diameter. Complete unit including notched shear type cutterhead, ram, pump, hose and couplingeach \$.....



Model 179087

2" capacity. For cutting copper and aluminum communication and power cable (not ACSR). Complete unit with 2" capacity shear type cutterhead, ram, pump, hose and coupling.....each \$.....

Model 179089

3" capacity. For cutting copper and aluminum communication and power cable (not ACSR). Complete unit with 3" capacity shear type cutterhead, ram, pump, hose and coupling.....each \$.....

Price on Application

PREMAX PRODUCTS

STAMPED EMBOSSED METAL LETTERS AND FIGURES



Aluminum — Plain Finish

Size In.	Price Per 1000		Size In.	Price Per 1000	
	Figures	Letters		Figures	Letters
Roman Type					
1/2	\$12.00	\$15.00	2	\$19.00	\$26.00
3/4	13.50	17.00	3	26.00	35.00
1	14.00	19.00	4	137.00	170.00
1 1/2	15.00	21.00	6	280.00	400.00
Gothic Type					
1 1/2	15.00	.....	.....	.....	.....

DATING NAILS AND DISCS

Description	Per 1000
3" x 1/4" Bronze Dating Nails, heads marked	\$113.00
1" x 1/8" Bronze Discs, stamped	75.00
1 1/2" x 1/4" Aluminum Dating Nails	65.00
1" x 1/8" Aluminum Discs, stamped	38.00
Lettering Die for Discs	*45.00
Conduit Tags, 6 3/4" Aluminum	29.00
Conduit Tags, 6 3/4" Brass	45.00

*Net Price (on first order only).

EMBOSSED ALUMINUM POLE TAGS



No. 12 3/4-in. Tag with 1/2-in. Letters

Stamped and embossed from aluminum sheet in various styles and sizes. Standard tags have a natural aluminum finish and are punched for nailing. Standard designs include one-or two-line inscriptions on plates 3/8", 1 3/4" or 2 1/4" wide. Lengths are determined by inscription. Standard type sizes are 7/8", 1/2", 3/8" or 1 1/4".

Design No.	Letter Tag			Design No.	Letter Tag		
	H. In.	L. In.	W. In.		H. In.	L. In.	W. In.
12	1/2	1 1/8	3/4	212	1/2 & 1/2	1 1/8	1 3/4
716	7/8	3/4	3/4	762	7/8 & 7/8	5/8	1 3/4
78	7/8	1 1/8	1 3/4	782	7/8 & 7/8	1 1/8	2 1/4
78A	7/8	1 1/8	1 3/2	778	7/8 & 7/8	5/8 - 1 1/8	1 3/4
114	1 1/4	1 1/4	2 1/4	787	7/8 & 7/8	1 1/8 - 3/4	1 3/4
RR-122	1/2	*	1 3/4				

*1 3/4" x 6 1/4" long, High Voltage Tag.

Design No.	Length, In.					
	3"	4"	5"	6"	7"	8"
12	\$20.50	\$22.00	\$23.50	\$25.00	\$26.50	\$28.00
716	20.50	22.00	23.50	25.00	26.50	28.00
78	27.00	30.00	33.00	36.00	39.00	42.00
78A	23.50	26.00	28.50	31.00	33.50	36.00
114	28.00	32.00	36.00	40.00	44.00	48.00
212	28.00	31.00	34.00	37.00	40.00	43.00
762	28.00	31.00	34.00	37.00	40.00	43.00
782	29.00	33.00	37.00	41.00	45.00	49.00
778	28.00	31.00	34.00	37.00	40.00	43.00
787	28.00	31.00	34.00	37.00	40.00	43.00
RR-122	.....	.....	.....	37.00	.....	.....

RYAN WIRE AND CABLE LAYERS

Ryan plows have a self contained, nationally serviced, powered hydraulic system and can be towed directly behind tractor or on winch line through mud and water. A patented leveling mechanism for leveling plow on side slope is standard equipment on both the Super C and the D Plows.



RYAN SUPER C PLOW

Seven Blade Sizes for Model C Plow
1" thick in 1/2" steps up to 4" thick O.D. Blades available w/maximum tube I.D. 3 1/2". Maximum depth reach 38" to 44".



RYAN MODEL D PLOW

Five Blade Sizes for Model D Plow
1" thick in 1/2" steps up to 3" thick O.D. Blades available w/maximum tube I.D. 2 1/2". Maximum depth reach 36" to 42".

Optional Equipment for Both Models

Cable controlled down pressure assembly-remote controls — electric brakes and lights — roller bearing reel arbor — hyd. powered tongue jack and couler wheel cylinder — double tubes for laying two separate cables — special blades made to order, including special blades for plowing in steel pipe lines.

Other products offered by Ryan Mfg. Co. are the Ryan Lawn Plow for laying house services and the Ryan Model E Plow, a light weight plow to lay wire and cable or identification tape.

Prices on Request

RATCLIFF SAFETY HOISTS

RATCHET AND PAWL TYPE



For lifting, lowering, pulling, dragging, stretching. These hoists can be used horizontally, vertically or at any in between angle, and in an upside down position.

Housing is alloy steel. One man easily pulls rated load. Load is moved or held by alloy steel pawl. Extremely resistant to shock. If service is needed, hoist can be completely disassembled and put back together in five minutes.

Hoist will not free-chain under load, even if control lever is tripped accidentally; nor will hoist free an interrupted load.

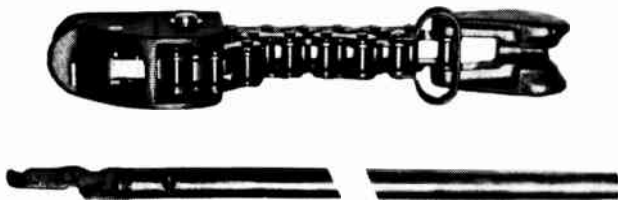
Minimum headroom — only 10% on 1¼-ton models; 1¼-ton and 2½-ton models can be used flush with wall, pole, or other working surface.

Has single control for raise, lower or free-chain. Handle operates in twelve positions. Has special speed lift.

Model	AC-1	AR-1	AC-2	AR-2	AC-3	AR-3	AC-4	AR-4
Rated capacity, tons	1¼	1¼	2½	2½	3¾	3¾	5	5
Type of chain	coil	rollerless	coil	rollerless	coil	rollerless	coil	rollerless
Number of chains	1	1	2	2	3	3	4	4
Net weight, pounds	14	14	21	21	34	34	42½	42½
Lever length, inches	14	14	14	14	14	14	14	14
Average pull on lever to lift full load, pounds	63	57	66	60	69	63	72	66
Minimum increment in lifting or lowering, inches	.312	.281	.156	.141	.104	.094	.078	.070
Minimum distance between hooks, inches	10¾	10¾	15½	15	18	18	18½	18½
Distance from top hook center to face of hoist, inches	¾	¾	¾	¾	2½	2½	2½	2½
Hook throat clearance, inches	1½	1½	1¼	1¼	1½	1½	1¾	1¾
Standard lift, inches	55½	55½	54	54	53½	53½	53½	53½
Extended lift, inches			108 1¼ ton	108 1¼ ton	80½ 2½ ton	80½ 2½ ton	71¼ 3¾ ton	71¼ 3¾ ton
Standard lineal length of chain, feet	5	5	10	10	15	15	20	20
Net price	\$93.00	\$99.00	\$119.00	\$131.00	\$164.00	\$180.00	\$193.00	\$215.00
Extra chain per lineal foot	2.20	3.30	2.20	3.30	2.20	3.30	2.20	3.30
Extra chain per lifting foot	2.20	3.30	4.40	6.60	6.60	9.90	8.80	13.20
Ratcliff safety gate, top or bottom per hook	3.30	3.30	4.40	4.40				
Safety latch, top or bottom per hook					2.20	2.20	3.00	3.00

RATCLIFF LOAD BINDER

MODEL A



The only ratchet binder with minimum 15,000 pound tensile strength that one man can comfortably and safely use. Tension can be adjusted without releasing binder. No cheater required.

Minimum tensile strength.....	15,000 lbs.
Take-up or let-out per stroke.....	½"
Standard take-up	15"
Chain sizes	¼" thru ¾"
Headroom	7"
Face room	3½"
Weight, binder	8 lbs.
Weight, handle	1½ lbs.
Handle length	22"
Price, complete	\$39.60
Price, binder alone	\$35.20
Price, handle alone	\$ 4.40

SAGER LINEMEN'S GLOVES

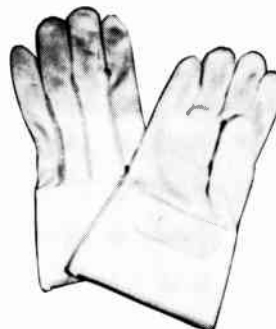
No. 427-2 LINEMEN'S GLOVE



Made of comfortable, long wearing elk leather, assuring maximum flexibility and service. Finger tips are protected with special davey tips, elastic in back, approximately 14" overall length.

Gloves and heavy leather gauntlets available in all sizes pr. **\$5.10**

No. 246-CFX LINEMEN'S GLOVE



Cream grain leather linemen's work glove, economy style, all inseam, made of soft, flexible grain leather with waterproof laminated gauntlet. Approximately 12½" overall length, available in all sizes pr. **\$2.85**

SALISBURY RUBBER PRODUCTS
ORANGE SALCOR CORONA RESISTANT
PROTECTIVE EQUIPMENT

UBANGI SYSTEM
For Glove or Hot Stick Application



The Ubangi System contains the most versatile protective equipment available and is preferred by many for use on today's higher distribution voltages because it can be applied either with rubber gloves or hot line tools. It remains flexible even at -20°F and provides the ultimate resistance to ozone as well as the aging effects of sun, heat and weather.

Cat. No.	Description	Wt. Lbs.	Each
Ubangi Line Hose			
U150-3	1½" I.D. x 3' Long	5¾	\$10.40
U150-45	1½" I.D. x 4½' Long	7¾	15.60
U150-6	1½" I.D. x 6' Long	10½	20.80

Ubangi Accessories			
UH	Ubangi Hood	5	13.75
UC	Ubangi Connector	2¾	6.60
USC	Ubangi Stirrup Cover	4	19.50
UA-2	Ubangi Applicator 24"	3¾	19.75
UA-3	Ubangi Applicator 36"	4	19.75

Test Data: Guaranteed to withstand 27,000 volts for three minutes on acceptance test.

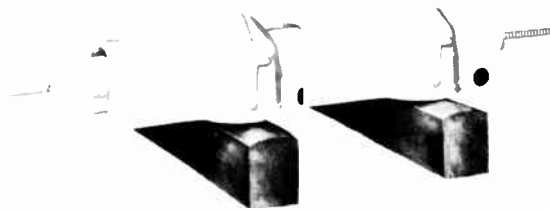
SALCOR BLANKETS AND JACKETS



No. 1700-B Snap-Button 36" x 36" x ½"
 Orange Salcor Blanket with 12 No. B-1 Buttons

Cat. No.	Description	Wt. Lbs.	Each
13	22" x 22" x ½" Jacket	2½	\$ 7.40
13-B	Same except w/12 Buttons	2¾	8.00
15	22" x 22" x ½" Slotted Snap-Button Jacket	2¾	7.40
15-B	Same except w/6 Buttons	3	7.70
900-E	36" x 36" x ½" Blanket	8½	19.80
1000-E	27" x 36" x ½" Blanket	6½	17.35
1300	36" x 36" x ½" Slotted Blanket	8½	19.80
1300-B	Same except w/12 Buttons	8¾	20.40
1700	36" x 36" x ½" Snap-Button Blanket	8¾	19.80
1700-B	Same except w/12 Buttons	9	20.40
1800-E	46" x 46" x ½" Slotted Blanket	10¾	29.75

CONVENTIONAL SYSTEM



Cat. No.	Description	Wt. Lbs.	Each
Salcor Rib-Grip Connector End Line Hose			
OR100-3C	1" I.D. x 3' Long	5	\$ 8.90
OR100-45C	1" I.D. x 4½' Long	6¼	11.85
OR100-6C	1" I.D. x 6' Long	7¾	14.60
OR125-3C	1¼" I.D. x 3' Long	6¼	11.90
OR125-45C	1¼" I.D. x 4½' Long	7¾	15.40
OR125-6C	1¼" I.D. x 6' Long	9¼	18.60
OR150-3C	1½" I.D. x 3' Long	7½	15.60
OR150-45C	1½" I.D. x 4½' Long	9¾	18.65
OR150-6C	1½" I.D. x 6' Long	12	22.30

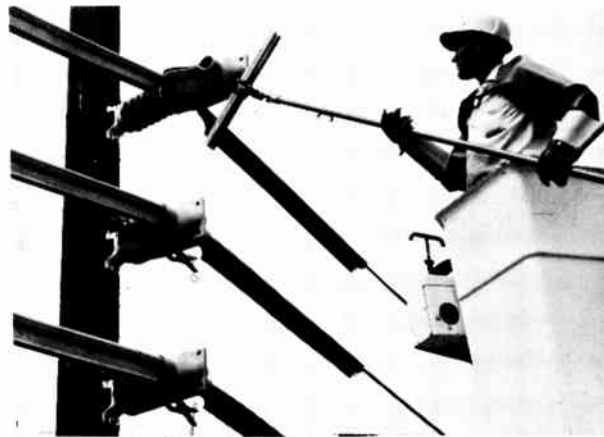
Salcor Rib-Grip Straight Line Hose			
OR100-3	1" I.D. x 3' Long	3¼	4.50
OR100-45	1" I.D. x 4½' Long	5	6.50
OR100-6	1" I.D. x 6' Long	6¼	8.65
OR125-3	1¼" I.D. x 3' Long	4	5.45
OR125-45	1¼" I.D. x 4½' Long	5¾	8.05
OR125-6	1¼" I.D. x 6' Long	7¾	10.60
OR150-3	1½" I.D. x 3' Long	6	8.05
OR150-45	1½" I.D. x 4½' Long	7¾	11.05
OR150-6	1½" I.D. x 6' Long	9¼	14.35

Salcor Rib-Grip Insulator Hoods and Connector			
OFRG	"F" Hood (For 1" Hose)	5	10.60
OJRG	"J" Hood (For 1" Hose)	6½	11.90
OKRG	"K" Hood (For 1¼" - 1½" Hose)	7½	12.75
ORC-100	1" Line Hose Connector	1	4.90

Note: When ordering line hose for use with hoods, order equal quantities of straight and connector end hose.

Test Data: Guaranteed to withstand 25,000 volts for three minutes on acceptance test.

POST TYPE INSULATOR HOODS



Type PTH hood for use with horizontal or vertical post type insulators may be used with conventional 1½" rib-grip or 1½" ubangi system.

Cat. No.	O.A. Ht.	I.D.	Will Fit Insulator High	Use With Hose Dia.	Hose Size	Each
PTHL	15¾"	6½"	13"	6"	1½" I.D.	\$22.75
PTHS	11¾"	7¼"	8¾"	6"	1½" I.D.	22.75

Test Data: Guaranteed to withstand 27,000 volts for three minutes on acceptance test.

SALISBURY RUBBER PRODUCTS

100 SERIES LINEMEN'S GLOVES



The curved hand style offers linemen the advantage of greater comfort and convenience and the large gauntlet allows extra room for bulky winter clothing.

Standard length is 14" in solid maroon color, also available in 16" and 18" lengths and in black color or two-color combinations of yellow/black or red/black.

One finger mittens also available in the same lengths in black and two-color combinations. To specify mittens, use prefix "M" before the catalog number.

All gloves are steam cured, seamless and form fitting with finger lengths and widths adjusted to best meet average conditions. Guaranteed to meet A.S.T.M. specifications.

Cat. No.	Class	Volt KV	Length	Wt. Lbs.	Per Pair
One Color Curved Hand Style					
10-14"	1	10	14"	1 3/4	\$10.20
15-14"	2	15	14"	1 3/4	11.40
20-14"	3	20	14"	1 3/4	12.50
10-16"	1	10	16"	2	10.60
15-16"	2	15	16"	2	11.65
20-16"	3	20	16"	2	12.85
10-18"	1	10	18"*	2 1/2	12.50
15-18"	2	15	18"*	2 1/2	13.60
20-18"	3	20	18"*	2 1/2	14.50

Metermen's Yellow Low Voltage Glove

5-14"	0	750V	14"	1 1/2	5.80
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*Standard and Contour Cuffs.

Note: Specify size 9, 9 1/2, 10, 10 1/2, 11, 11 1/2 or 12 when ordering.

LINEMEN'S LEATHER GLOVE PROTECTORS



Leather Cuff

Rubber Cuff

Cat. No.	Description	Wt. Ozs.	Per Pair
Outside Seams (Gun Cut) — Buffed Leather			
120C-4"	Full 4" Gauntlet	10	\$5.25
120C-6"	Full 6" Gauntlet	12	5.50
120C-7"	Full 7" Gauntlet	14	5.60
124C	Semi-Gauntlet 2 3/4"	9	4.95
132	Rubber Cuff 6", Black	16	6.20
Inside Seams (Clute Pattern) — Buffed Leather			
103*	One-Finger Mittens, 4" Cuff	10	4.50
156-4"	Full 4" Cuff Clute	10	4.95
156-6"	Full 6" Cuff Clute	12	5.20
157-7"	Full 7" Cuff Clute	14	5.30
162	Rubber Cuff 6", Black	16	5.95
Inside Seams (Clute Pattern) — Lightweight Goatskin			
220-4"	Full 4" Gauntlet	8	4.25
220-6"	Full 6" Gauntlet	10	4.60
220-7"	Full 7" Gauntlet	12	4.75
224	Semi-Gauntlet 2 3/4"	7	4.10

Lightweight Protectors for Low Voltage Gloves

200S	Sheepskin	6	2.95
210G	Extra Light Goatskin	5	3.20

Note: Specify exact glove, protector must fit, sizes 9 through 12.

*Specify size 9, 10 or 11 only.

BAGS FOR LINEMEN'S GLOVES

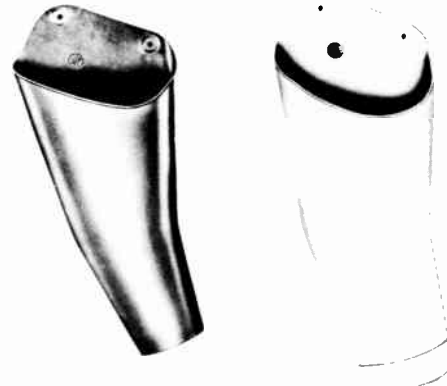


Made of tight-woven extra heavy-duty 42 oz. duck with non-raveling edges. They are a roomy 9" wide and large enough to hold one pair of gloves with leather protectors.

The 18" and 20" bags are made with expansion sides. A snap hook and "D" ring attached to each bag.

Cat. No.	Length	For Glove Size	Wt. Lbs.	Each
35-12"	12"	Lo-Volt 11"	3/4	\$3.10
35-14"	16"	14"	1	3.50
35-16"	18"	16"	1 1/4	4.25
35-18"	20"	18"	1 1/2	4.55

LINEMEN'S CURVED ELBOW RUBBER SLEEVES



No. 80

No. 90

Full length seamless rubber sleeves used to protect linemen's arms and shoulders from accidental contact with energized equipment. Each sleeve is tested in accord with A.S.T.M. specifications.

Cat. No.	Proof Test Voltage	Color	Size	Wt. Lbs.	Per Pair
75-10B	Class 1 10 K.V.	Black	Regular	3 1/8	\$14.95
85-10B		Black	Large	3 1/4	15.60
80-15M	Class 2 15 K.V.	Maroon	Regular	3 3/4	17.25
80-15B		Black	Regular	3 3/4	17.25
90-15M	Class 3 20 K.V.	Maroon	Large	4 1/2	17.90
90-15B		Black	Large	4 1/2	17.90
95-20M	Class 3 20 K.V.	Maroon	Regular	4	20.50
95-20B		Black	Regular	4	20.50

Note: Above price includes two straps and four buttons per pair. If sleeve harness is desired, specify No. H-1 harness.

PROTECTIVE BAGS FOR LINEMEN'S SLEEVES



No. T-31

Sleeve bags for protection of sleeves while in field storage. Full length tube shaped bag accommodates one pair of sleeves. Ring attached for hanging on truck. Top opening 7 1/2", length 31".

Cat. No.	Description	Wt. Ozs.	Each
T-31	Tube Shape	12	\$3.10
R-31	Canvas Roll-Up	16	4.10

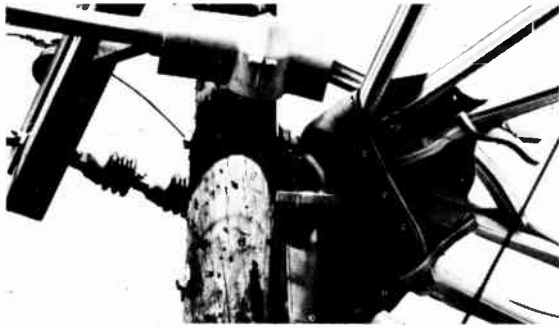
SALCO CLEANER

Concentrated, powerful water base cleaner with a special grease release formulation that quickly removes oils, grease and dirt from rubber, Orange Salcor and other plastic protective equipment.

Cat. No.	Description	Wt. Lbs.	Per Gal.
S-5	5 Gallon Can	50	\$5.50
S-15	15 Gallon Drum	168	5.25
S-30	50 Gallon Drum	295	5.00

SALISBURY RUBBER PRODUCTS

LINEMEN'S BLANKETS



All rubber, light in weight, extremely flexible and yet tough enough for the hardest kind of usage. All blankets are 1/8" thick and have beaded edges. Available with or without reinforced eyelets. Guaranteed to meet A.S.T.M. specifications on acceptance.

Cat. No.	Description	Wt. Lbs.	Each
100-E	36" x 36" Nylon Insert, Black	7 1/2	\$18.70
300	36" x 36" Black, Plain	7 1/4	14.25
300-E	36" x 36" Black, Eyelets	7 3/4	14.25
400-E	27" x 36" Black, Eyelets	5 3/4	11.90
500-E	36" x 36" Pure Gum Center, Maroon	7 1/2	16.00
600-E	27" x 36" Pure Gum Center, Maroon	5 3/4	12.90
700-E	27" x 36" Maroon, Eyelets	7 1/2	14.75

SLOTTED RUBBER BLANKETS

These blankets are as illustrated above except they are provided with a slot from one edge to center. This style blanket is ideally suited to cover up special areas such as side pole mounted common neutrals and secondary racks.

Cat. No.	Description	Wt. Lbs.	Each
1100-B	36" x 36" Black w/12 Buttons	7 1/2	\$15.35
1200-B	36" x 36" Maroon w/12 Buttons	7 1/2	15.40
400-E	46" x 46" Black w/Eyelets	12 3/4	26.20
14	22" x 22" Jacket w/Eyelets	2 3/4	6.35
14-B	22" x 22" Jacket w/6 Buttons	2 3/4	6.65

SNAP-BUTTON BLANKETS



These blankets have extra reinforced eyelets on all four sides and are supplied with or without No. B-1 blanket buttons.

Cat. No.	Description	Wt. Lbs.	Each
1500	36" x 36" Black	8	\$14.25
1500-B	Same except w/12 Buttons	8 1/4	14.85
12	22" x 22" Jacket	2 1/2	6.35
12-B	Same except w/12 Buttons	2 3/4	6.95
B-1	Extra Blanket Buttons	.....	.05

BLANKET CANISTERS



To prolong the life of rubber blankets, proper storage is extremely important. These canisters holding rolled blankets are made of strong, galvanized iron, providing safe storage and transportation.

Cat. No.	Description	Wt. Lbs.	Each
1	For 1 Blanket 4" x 37"	3 3/4	\$ 6.60
2	For 2 Blankets 5" x 37"	4 3/4	7.10
3	For 3 Blankets 6" x 37"	5 3/4	7.80
4	For 4 Blankets 7" x 37"	6 3/4	8.50
5	For 5 Blankets 8" x 37"	7 3/4	11.00
6	For 6 Blankets 9" x 37"	9	11.35

Note: Prices and delivery on special sizes furnished on request.

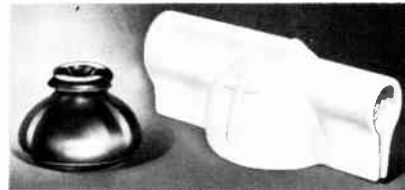
RIB-GRIP LINE HOSE

Flexible white natural rubber line hose is available straight or with connector ends for coupling to hoods or to other hose. Used for protection from live wires by completely surrounding the conductor with a wall of voltage resisting rubber. Snaps on wire and is self-locking.

Cat. No.	Description	Wt. Lbs.	Each
Rib-Grip Connector End			
R100-3C	1" I.D. x 3' Long	4 1/2	\$ 7.00
R100-45C	1" I.D. x 4 1/2' Long	5 3/4	9.25
R100-6C	1" I.D. x 6' Long	7 1/2	11.45
R125-3C	1 1/4" I.D. x 3' Long	5 1/2	9.75
R125-45C	1 1/4" I.D. x 4 1/2' Long	7	12.65
R125-6C	1 1/4" I.D. x 6' Long	8 3/4	15.25
R150-3C	1 1/2" I.D. x 3' Long	6 3/4	13.45
R150-45C	1 1/2" I.D. x 4 1/2' Long	9	16.10
R150-6C	1 1/2" I.D. x 6' Long	11 1/4	19.25

Cat. No.	Description	Wt. Lbs.	Each
Rib-Grip Straight			
R100-3	1" I.D. x 3' Long	2 3/4	3.90
R100-45	1" I.D. x 4 1/2' Long	4 1/2	5.60
R100-6	1" I.D. x 6' Long	5 3/4	7.45
R125-3	1 1/4" I.D. x 3' Long	3 1/2	4.70
R125-45	1 1/4" I.D. x 4 1/2' Long	5 1/4	6.95
R125-6	1 1/4" I.D. x 6' Long	7 1/4	9.15
R150-3	1 1/2" I.D. x 3' Long	5 1/2	6.95
R150-45	1 1/2" I.D. x 4 1/2' Long	6 3/4	9.55
R150-6	1 1/2" I.D. x 6' Long	8 3/4	12.35

RIB-GRIP INSULATOR HOODS AND CONNECTOR



Style "F" Hoods cover Class 1, 2 or 3 insulators; Style "J" up to Class 4 and Style "K" up to Class 5.

Cat. No.	Description	Wt. Lbs.	Each
FRG	"F" Hood (For 1" Hose)	5	\$ 8.85
JRG	"J" Hood (For 1" Hose)	6 1/2	9.95
KRG	"K" Hood (For 1 1/4" - 1 1/2" Hose)	7 1/2	10.60
RC-100	1" Line Hose Connector	1	4.15

SALISBURY RUBBER PRODUCTS

BLANKET CLAMP PINS



Jaws open wide enough to clamp a blanket over line hose, hood, or even a crossarm and yet firmly grip the edges of a blanket.

Constructed of oiled oak and sanded to a sliver free surface.

Cat. No.	Description	Wt. Lbs.	Each
20	Curved Jaw, 8½" Long	¼	\$.75
25	Straight Jaw, 6½" Long	⅙	.45

LINE HOSE AND TOOL BAGS

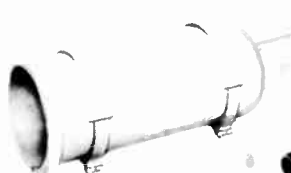


Line hose bags hold up to 8 lengths of 1" line hose.

All line hose bags, troublemen's bags and tool buckets have reinforced leather bottoms and are made of extra heavy duty white canvas.

Cat. No.	Description	Wt. Lbs.	Each
30	Tool Bag 16" High x 12" Dia.	2¼	\$ 8.80
40	Tool Bag 14" High x 8" Dia.	1¾	6.40
48	Line Hose Bag 48" x 7" Dia.	2¾	7.90
60	Line Hose Bag 60" x 7" Dia.	3	8.55
66	Line Hose Bag 66" x 7" Dia.	3¾	10.00
72	Line Hose Bag 72" x 7" Dia.	3½	10.45
620	Troublemen's Bag 20" Long	4½	10.50
622	Troublemen's Bag 22" Long	4¾	10.80
624	Troublemen's Bag 24" Long	5	11.40

DEADEND PROTECTORS



No. R-101

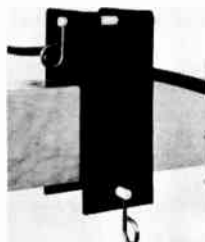


No. U-106

Deadend protectors allow the linemen to cover up insulators rapidly and safely. The ubangi style unit may be applied with applicator or with rubber gloves.

Cat. No.	Description	Wt. Lbs.	Each
Deadend Protectors			
R-101	6" w/Straps	9	\$21.45
R-114	1-4" Bell w/Strap	3½	14.40
R-124	2-4" Bell w/Strap	7¾	18.40
Ubangi Protectors			
U-106	For Dead Ends 6"	6¾	26.40
U-110	For Dead Ends 10"	9¾	32.75

INSULATING SADDLE



This device is an excellent tool for troublemen. The unit may be applied temporarily in case of trouble with gloves or a grip-all stick.

Cat. No.	Wt. Lbs.	Each
IS-10	3¾	\$16.50

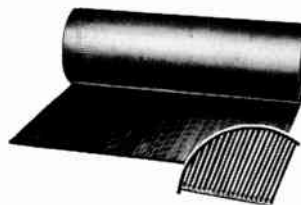
POLE-GUARDS



Made of orange ABS plastic. This tool snaps around the pole and offers positive protection from energized conductors or ground. Wall thickness of ¼" withstands 400 volts per mill.

Cat. No.	Lgth.	Pole Dia.	Wt. Lbs.	Each
G-10	1'	9"	1½	\$ 9.25
G-20	2'	9"	3¼	16.00
G-30	3'	9"	4¾	21.00
G-43	4'	11"	9½	32.50
G-63	6'	11"	14½	48.50

SWITCHBOARD RUBBER MATTING



Provides insulation when placed before switchboard or where protection from possible ground is necessary. It is solid rubber with fabric insert and a corrugated surface. Meets A.S.T.M. specifications.

Cat. No.	Description	Wt. Lbs. Lin. Yard	Per Lin. Yard
M24	¼" x 24" Long	9	\$7.45
M30	¼" x 30" Long	12	8.65
M36	¼" x 36" Long	15	9.60

RUBBER CABLE BANDAGES

Rubber cable bandages provide temporary insulation for general use in overhead as well as underground applications.

Cat. No.	Description	Each
314PG	3" x 14' Pure Gum Rubber ⅜" Thick	\$2.70
414PG	4" x 14' Pure Gum Rubber ½" Thick	3.15
414BN	4" x 14' Black Neoprene (AT&T Spec.)	3.00

CABLE END CAPS



These self securing cable end caps provide cable termination protection for URD underground application. Made of bright orange Salcor. They are guaranteed to pass a 20 KV test on acceptance test.

Cat. No.	Cable Size	I.D.	Lgth.	Each
73	12 to 6 AWG	⅝"	6"	\$3.35
173	4 to 4/0 AWG	1⅜"	6"	3.60
317	10 to 4 AWG	¾"	7"	3.75
117	4/0 to 500 MCM	1⅜"	10"	4.50
177	350 to 750 MCM	2¼"	12"	5.15
178	800 to 1000 MCM	3⅜"	16"	9.80

TAGGING DEVICE

For tagging out open disconnect switches. "Hold" cards are fastened to this warning device and the unit is applied with a switch pole.



Cat. No.	Description	Each
MT	Marshall Tagging Device	\$1.55

SALISBURY RUBBER PRODUCTS
HOODED LINEMEN'S RAINSUITS



Hood slips over hard hats and may be pulled snug with draw strings. Sleeves are extra wide to fit over rubber gloves. A pure gum wristlet innersleeve prevents water from running up the linemen's arm. Non-metallic buttons and inside pocket on jacket.

Made in a choice of two fabrics, heavy duty neoprene on nylon or lightweight polyurethane coated nylon. Yellow color only. Sizes: S-M-L-XL.

Cat. No.	Description	Wt. Lbs.	Each
N-784	Neoprene on Nylon	3	\$22.40
P-501	Polyurethane on Nylon	1½	27.65
N-420	Utility Suit Neoprene Yellow or Black (No Hood)	4	16.35

NON-SPILLABLE — P.B. COMPOUND POTS

Made of semi-hard durable rubber. They are non-conducting, non-breakable and not affected by usual P.B. compounds. Safer, more convenient, brush and compound in one unit.

Will stand upright or can be hung on wire, bus bar or brace. Inner flange prevents spillage during rough handling.



Cat. No.	Description	Each
PB1	Single Compartment Paint Pot (1 Pint)	\$6.50
PB2	Double Compartment Paint Pot	7.00
JP1	Joint Paste Pot	3.80

RE-MAR STOWKIT TOOL BUCKETS



Handle is ½" manila rope. 4" wide fiber rim with rolled top, paint impregnated to withstand all weather conditions, nylon stitching. 6" x 6" inside pocket with two 1" tucks (opens to 6" x 8") bound and double stitched in place. Bottom is of one piece formed oak leather, wax impregnated, ⅛" thick, extending 2" up the side, with nylon stitching. Completely telescopically collapses for convenient storage.

The "Super" Stowkit has leather reinforcements on the side seams and is made of No. 6 Duck.

The "Special" Stowkit is made of No. 4 Duck.

Cat. No.	Description	Dia. In.	Hgt. In.	Each
LS-12-150	Super Stowkit With Inside Pocket	12	15	\$10.15
SP-12-150	Special Stowkit With Inside Pocket	12	15	9.85
SP-10-120	With Inside Pocket	10	12	8.60

RE-MAR TELEPHONE SERVICE BAG



Four large outside pockets cover the circumference of the bag. Two standard size pockets placed on the inside of the bag. All pockets first bound then double stitched in place and reinforced with rivets at points of stress. Entire bag is made of No. 4 Duck.

Polypropylene rope handle. Heavy fibre rim and molded leather bottom stitched with nylon thread. Swivel safety snap fastened to center of rope handle. Rubber liner cushion in bottom of bag. Size: 10"x12".

No. SP-10-300 Telephone Service Bag, each 11.50

REVERE NYLON TARPS



Made of Sun Chemical Co. "Facilon", a vinyl-nylon laminate specially developed for protective covering use.

Lightweight . . . half the weight of canvas.

Strong . . . twice as strong as canvas.

Waterproof . . . not merely water resistant.

Non-absorbent . . . keeps clean, dries fast.

Fire Retardant . . . self-extinguishing.

Unaffected by mildew, salt water, grease, many chemicals.

Serviceable in temp. range — 30 to 120F.

Made with electronically welded leakproof seams, non-metallic vinyl grommets for tiedown, every 3 feet approximately. Available from stock in following styles:

General Purpose (10 Oz.)

Extra Heavy Duty (18 Oz.)

Size	Cat. No.	Size	Cat. No.
6' x 8'	GP68	6' x 8'	HD68
10' x 12'	GP1012	10' x 12'	HD1210
12' x 18'	GP1218	12' x 18'	HD1218
20' x 20'	GP2020	20' x 20'	HD2020

Standard Color: Yellow
Other sizes and colors to order.

Uses: Outside storage covers, equipment covers, splicers' sunshades, salvage tarps, ground and lawn covers, manhole surrounds, welding curtains, etc.

Custom fitted covers to special order.



Price on Application

SAWYER-TOWER SAFETY AND PROTECTIVE CLOTHING

INDUSTRIAL SUITS

TUFFLON™

Medium Weight Neoprene Coated Nylon

Best quality nylon fabric Super Bond coated, then multi-coated on outside only with duPont neoprene—ideal for abrasion, tear and snag hazards and in warm climates and areas.

Particularly Recommended For: normal industrial contamination—where abrasion is a problem—where extra light weight is needed.—where snagging, tearing are hazards.



- No. 80-326 — Jacket — Raglan sleeves, buttons-on collar for attaching hood. Yellow, Black and Hunters Greeneach **\$7.85**
 - No. 81-325 — Overall — bib-style, safety-fly front, web suspenders. Yellow, Black and Hunters Greeneach **\$7.95**
 - No. 83-333 — Sou'wester — soft sweat band, no lining, tie strings. Yellow only.....each **\$2.25**
 - No. 88-001 — Hood — button-on style, draw string, buttonholes. Yellow, Black and Hunters Greeneach **\$2.25**
- Weight of suit with hood, under 2 lbs.

SEE-FOX™

Fluorescent Orange Vinyl Hycar Rubber-Coated Cotton

Brilliant coloring lasts lifetime of garment. Abrasion resistant, have superior adhesion qualities, excellent resistance to acids, alkalies, chemicals. Coated inside and out. Very flexible, resists tearing and snagging. Won't peel or crack.

Particularly Recommended For: high visibility — construction — Utilities — acid and alkali resistance — municipal workers.

- No. 20-326 — Jacket — see features for 80-326. Orange onlyeach **\$7.55**
 - No. 21-325 — Overall — bib-style, elastic suspenders, safety-fly front, Orange only.....each **\$7.35**
 - No. 23-300 — Sou'wester — sweat band, tie strings, unlined. Orange only.....each **\$1.75**
 - No. 28-001 — Hood — button-on style, draw string, buttonholes. Orange only.....each **\$1.50**
- Weight of suit with hood approx. 3 lbs. 5 oz.

YELLOW DRAGON™

Vinyl Hycar Rubber-Coated Rayon

Versatile protective clothing that can withstand severest hazards. When tested according to methods used in 5903 CCC-T-191b (Federal Specification, Textile Test methods for flame resistance) it is essentially self-extinguishing — having flame and afterglow of less than 2 seconds after removal of ignition source.

Lightweight, highly resistant to 103 chemicals, acids. Multi-coated inside and out.

Particularly Recommended For: Flame resistance — Utilities — water hazards — acid resistance — general industrial use.

- No. 60-326 — Jacket—see features for 80-326. Yellow onlyeach **\$7.55**
 - No. 61-325 — Overall—bib-style, same features as 21-325 except self-material suspenders with elastic inserteach **\$7.35**
 - No. 63-300 — Sou'wester—same features as 23-300. Yellow onlyeach **\$1.75**
 - No. 68-001 — Hood—unlined, drawstring, button-on style, attach to 60-326. Yellow onlyeach **\$1.50**
- Weight of suit with hood approx. 3 lbs. 5 oz.
Available in S-M-L-XL-XXL sizes. Add 10% for XL and 15% for XXL sizes.

LINEMEN'S SUITS

SUPER TUFFLON™

Heavyweight Neoprene Coated Nylon — Yellow Only

For light weight, maximum protection against oil and grease, mild acids, solvents, abrasion, snagging and tearing. Finest Nylon fabric, Super Bond coated, then multi-coated inside and out with duPont neoprene.

Inside coating protects during cleaning, guards against static electricity and prolongs wear. All seams double-locked stitched, spray-sealed and cured. Tension points reinforced.



Particularly Recommended For: all Utilities — mild acids, petroleum products — roughest industrial use — warm climates.

- No. 80-34 — Jacket and Hood — gusset front, pull-over hooded jacket, drawstrings in hood and at bottom, slit sleeve with take-up buttons, no metal trimmings, raglan sleeves, left chest pocket flapeach **\$12.55**
 - No. 81-07 — Overall — bib-style, patch pocket with flap on right, front cuff straps, side openings, safety fly, full elastic suspenders, no metal trimmingseach **\$11.75**
- Weight of suit approx. 2 lbs. 10 oz.

TUFFPRENE™

Medium Weight Neoprene Coated Cotton — Yellow Only

Select lighter weight cotton sheeting, multi-coated on outside (inside saturation coat) with DuPont neoprene. Provides rugged protection in all weather, resists tearing, snagging, abrasion. Flexible, smooth machine-coated finish.

Particularly Recommended For: Utilities—where cost is a factor—general industrial use.

- No. 50-334 — Jacket and Hood — same features as 80-34, except set-in sleeves.....each **\$10.55**
 - No. 51-307 — Overall — bib-style, same features as 81-07, except web suspenders.....each **\$8.75**
- Weight of suit approx. 3 lbs. 6 oz.

SUPER RHINO-LITE™

Polyurethane Coated Nylon — Yellow Only

For minimum weight, maximum flexibility, finest quality. Outside coating is a super-smooth, abrasive resistant finish—sheds water, repels dirt, gives double the wear. Lineman's suit weighs only 1½ lbs. Fade resistant and flexible in any temperature. Seams double needle stitched, polyurethane spray sealed.

Particularly Recommended For: Waterproof protection—all Utilities—warm climate—areas where absolute minimum weight needed.

- No. 90-334 — Jacket and Hood—see features for 80-34each **\$12.35**
 - No. 91-307 — Overall—bib-style, see features for 81-07each **\$11.55**
- S-M-L-XL-XXL sizes. Add 10% for XL and 15% for XXL sizes.

SCHLUETER PORTABLE WATER CASKS

Stainless Steel Lined



No. G5CLL
5 Gallon



No. 21 Mounting Bracket



No. 23 Truck Bracket

Keeps cold water cold. Specially designed for utility working crews. Lock-on, umbrella type, dust proof, fully insulated lid is attached to cask. Drop type, safety lock handles. Exterior is of heavy galvanized steel, with deep corrugations, enameled Bell Green. Interior is heavy stainless steel, with rounded bottom. Double wall, foam insulation. Non-movable inset support bottom.

Completely recessed, high impact polypropylene spigot is non-heat conducting and has sanitary one-finger operation.

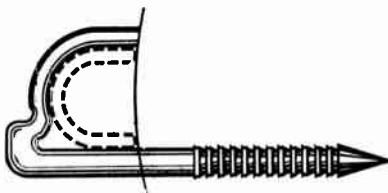
All casks equipped with side hold down lugs and universal paper cup dispenser lug.

Cat. No.	Capacity Gals.	O.A. Ht. In.	O.A. Dia. In.	Top Opening In.	Each
G2CLL	2	13	10 3/4	8 1/2	\$13.96
G3CLL	3	17 1/2	10 3/4	8 1/2	14.98
G5CLL	5	27	10 3/4	8 1/2	20.22
No. 21 Mounting Bracket					5.80
No. 23 Truck Bracket					8.20

Packed one per carton.

STRONGHOLD STAPLES

FOR PLASTIC GROUND WIRE MOULDING



Length Inches	Moulding Size, Inches	Bronze		Galvanized	
		Cat. No.	Per 100	Cat. No.	Per 100
2	3/8	238	\$6.94	338	\$6.12
2	1/2	212	7.38	312	6.26
2	5/8	258	7.63	358	6.37
2 1/4	3/4	234	9.07	334	7.84

STAMPINGS, INC.

POW-R-SPADE TRENCHERS



MODEL 1903 POW-R-SPADE

For cable burial in shallow trenches. Digs a trench 3 in. wide from 1 in. to 24 in. deep, or 4 in. wide to 18 in. deep. Easily maneuvered in confined areas. Digs around obstructions in curves or circles with a radius over 3 feet. Digs 1 1/2 to 17 feet per minute depending on soil conditions. Powered by 4 H. P., four cycle engine. Can be operated and loaded by one man. Weighs only 250 lbs. Overall size is 33 in. wide; 38 in. high; and 84 in. long. Every Pow-R-Spade is equipped with hand winch for use when trenching in a straight line. Shipped completely assembled. Digging teeth are high tensile steel, heat treated, easily removable for replacement.

Model 1903 Pow-R-Spade.....each \$489.00



MODEL 7200 POW-R-SPADE

For all trenching requirements. Completely self-propelled. Digs trenches 4 in. wide to 6 ft. deep; 6 in. wide to 5 ft. deep; 8 in. wide to 4 ft. deep; and 12 in. wide to 3 ft. deep. Digs 1 1/2 ft. to 15 ft. per minute depending on soil conditions, and width and depth of trench. Ruggedly built for reliable service and long life. Powered with a 12 1/2 H. P. engine. Dependable transmission has four digging speeds and reverse. Overall size is 52 in. wide, 10 1/4 ft. long (boom upright in transport position). Pow-R-Spade is equipped with trailer hitch-towing bar for fast easy transport to and from job location. Weight 1,050 lbs. Digging teeth are heat treated high carbon steel easily removable for replacement.

Model 7200 Pow-R-Spade.....each \$2,000.00

T & B UTILITY PRODUCTS

POLE GROUND PLATE



Has four moisture-retaining cups embossed on a large area solid copper plate .025" thick. These cups, along with weight and natural vibration of the pole, tend to hold ground moisture around the plate—maintaining a better ground.

Cat. No.	Std. Pkg.	Wt. Per 100	Per 100
5575	50	44	\$100.00

T & B JOINT COMPOUND

For Use On Aluminum Connections



For low resistance, air and moisture tight connections. Use as a contact aid and oxide inhibitor on aluminum conductor connections, also ideal as thread lubricant. The compound is an easily workable mixture of fine metallic particles suspended in a high temperature grease. It is stable over a wide temperature range — 60°F to 500°F. Packaged in a convenient plastic squeeze

bottle with hang-up strap.

No. 21059 ½ Pt. Bottle, wt. 1 lb
Price on application.

T & B MECHANICAL TOOLS

CABLE STRIPPER



Cat. No.	Description	Each
369	For #1AWG to 1000 MCM.....	\$19.50

SHURE SQUEEZER



Cat. No.	Description	Each
UT3	For ½" and ¾" O.D. Shure Splicers	\$32.50

BASIC UT5E TOOL



Cat. No.	Description	Each
UT5W	Wood Handles—no dies or case	\$44.00

CABLE SLICERS



Cat. No.	Description	Each
UT364F	For up to 350MCM with fiberglass handles	\$48.00
UT364F6	Same as above except with 6' "Hot Stick" type fiberglass handles	98.50

T & B DISTRIBUTION HYDRAULIC TOOLS



No. UT-15



No. 15600



No. 15500 2 Large Outside Pieces
No. 15501 2 Small Inside Dies



No. 15597



No. 15596

Cat. No.	Description	Each
UT15	15-ton hydraulic installing tool with steel carrying case	\$275.00
15599	Steel carrying case only	18.00
15598	Universal hot stick adapter	5.00
15500	Small die adapter for UT-15	35.00
15501	Small dies for UT-15 (1 to 10 sets)	9.00
15600	Large dies for UT-15	25.00
15596	Electric hydraulic pump 115 volt single phase, 9800 psi hydraulic output, remote controlled	340.00
15597	Air hydraulic pump 70 to 100 psi air input, 9800 psi hydraulic output, remote controlled	330.00



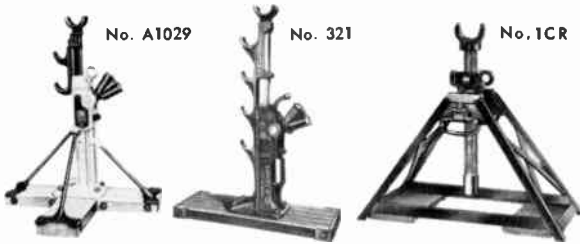
No. 13570

Orange, high pressure, non-metallic hydraulic hose — 10,000 psi working pressure with quick couplers and filled with oil.

Cat. No.	Length Feet	Each	Cat. No.	Length Feet	Each
13570	6	\$25.00	13574	25	\$ 50.00
13571	10	30.00	13575	50	90.00
13572	15	39.00	13576	100	175.00
13573	20	45.00			

TEMPLETON, KENLY & COMPANY

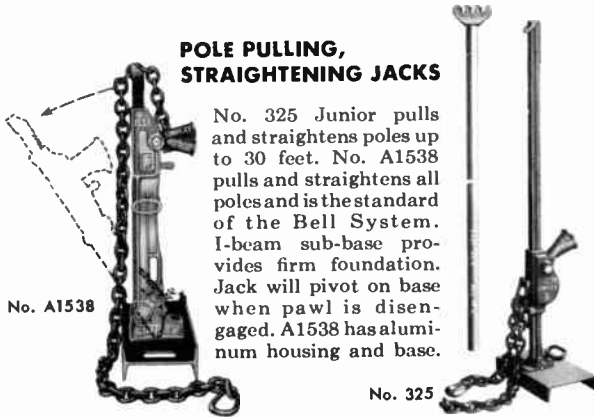
LEVER AND SCREW TYPE REEL JACKS
for cable, rope or belting



All ratchet lowering simplex reel jacks have laminated, oil treated oak bases for protection against splitting and warping. No. 320A—5 tons, single acting—for warehouse and shop service. Handles 20 to 60-inch diameter reels; has one 2½ inch lifting hook and 2 for 2 inch spindles. No. 321—10 tons, single acting—handles 20 to 96-inch diameter reels. Has 5 lifting hooks; 1 for 3½ inch; 1 for 3 inch and 3 for 2½ inch spindles. No. A1029—10 tons, single acting—T-shaped base area of 319 sq. in. for non-rocking foundation. Built with right and left hand bases; handles 36 to 84-inch diameter reels. Has 3 lifting hooks; 1 for 3 inch and 2 for 2½ inch spindles. Housing is aluminum. "A" frame screw type. Spindle cap for 2¼ inch spindle. No. 1CR for reels 40 to 60 inches diameter and No. 2CR for reels 60 to 92 inches in diameter. No. 3CR for 50 to 84 inch reels. 3-Way Nut for speed.

Model No.	Capacity tons	Height inches	Lift inches	Weight pounds	Length of lever, inches	Price
1CR	5	19¼	13¼	62	—	\$ 44.25
2CR	5	30½	18	88	—	57.85
3CR	15	25½	17½	75	42	88.00
320A	5	21	10	51	30	65.40
321	10	34¼	14¼	114	60	112.45
A1029	10	29¼	13¼	86	60	127.15

POLE PULLING, STRAIGHTENING JACKS



No. 325 Junior pulls and straightens poles up to 30 feet. No. A1538 pulls and straightens all poles and is the standard of the Bell System. I-beam sub-base provides firm foundation. Jack will pivot on base when pawl is disengaged. A1538 has aluminum housing and base.

Model No.	Capacity Tons	Height Inches	Lift in.	Jack Wgt. Lbs.	Wgt. Complete Lbs.	Price
325	5	50	36	34	98	\$ 98.00
A153	15	37¼	22	62	145	158.30

325 furnished with lever, chain, sub-base and pike extension. A1538 with lever, alloy chain and sub-base.

PINE HYDRAULIC PUMPS
MANUALLY OPERATED

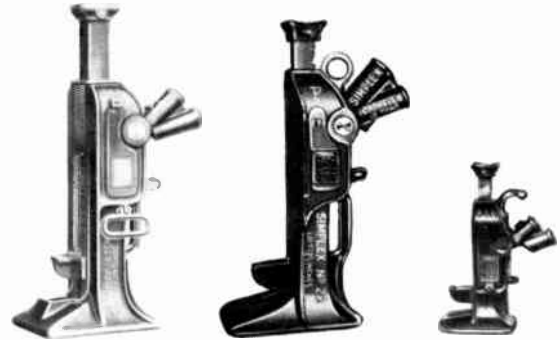
for rams, jacks, presses, jigs and fixtures
Pumps available with or without reservoirs
All-steel construction with NPT inlets and outlets. Many models available in stainless steel, also to meet Mil-Specs.



Model No. 160

Single piston pump with 160 cu. in. reservoir on 8" by 8" base plate. Piston sizes from ¾" through 1½". Available in stainless steel. Net weight 25 lbs.

RATCHET LOWERING JACKS
Single acting — standard type



No. 24A
15 tons

No. 22
10 tons

No. 84A
5 tons

These are the most versatile general purpose jacks on the market. Rugged construction permits safe lifting, lowering, skidding, moving and leveling with the important Simplex feature that these jacks will lift full capacity on the toe as well as on the cap.

Double lever sockets permit operation in close quarters and angular lifting. Made of best materials, precision machined and heat-treated. Other features include adjustable cadmium plated springs and links, shorter fulcrum centers, larger toe lifts, lubricated trunnion bearings, multiple toothed pawls, and reinforced inner-ribbed housings.

Model No.	Capacity tons	Hgt. in.	Lift in.	Lever in.	Standard lever socket	Toe min. hgt. in.	Wgt. lbs.	Price
84A	5	14	7	30	2-Way	1¼	28	\$ 38.05
85A	5	17	10	30	2-Way	1¼	30	41.90
86A	5	20	13	36	2-Way	1¼	35	46.50
22	10	21¼	12½	60	2-Way	2¼	65	66.25
1017	10	17	9½	60	2-Way	1¼	40	53.40
A1022**	10	20½	12	60	2-Way	2	42	87.80
24A	15	23¼	13	60	2-Way	2½	93	89.25
29	15	28¼	19	60	2-Way	2½	99	92.20
2029	20	28¼	18	70	2-Way	2½	104	101.35

**No. A1022 has an aluminum alloy housing.

CABLE AND WIRE TENSIONING JACK — NO. 324

for tensioning cable and wire in public and private utility maintenance and construction.

20¼" travel, light, powerful. Pulls overhead and underground cable. Takes up slack in trolley, guy and transport wires. Speed trigger for instant slack take-up when not under load. Non-flexible rack bar. Steel lever held with safety spring clip.



Extra Equipment—For bare-wire tensioning—2 grips and 2 slings. For splicing—2 double-eye split cable grips, 2 three-bolt clamps and 2 slings. Consult your Line Material catalog for this equipment.

Jack No.	Capacity Tons	Travel Inches	Weight Lbs.	Price
324	2	20¼	17	\$ 42.85

Piston Size	Recommended Pressure	Cu. In. Displacement Per Stroke
¾"	to 20,000 PSI	.16
½"	to 12,000 PSI	.28
½" No. RP3BFC	to 10,000 PSI	.183
¾"	to 3,000 PSI	.66
1"	to 1,500 PSI	1.08
1½"	to 800 PSI	2.20

¾" thru ¾" Piston **\$39.15**
1" Piston **46.65**
1½" Piston **66.65**

TEMPLETON, KENLY & COMPANY

SIMPLEX "ROL-TOE" FOOT LIFT HYDRAULIC JACKS



10, 25 and 50 ton capacities

Exclusive design accounts for the success of this series of jacks. The roller bearing in the toe transmits eccentric toe loading to the flat milled surface on the housing. This minimizes scoring action which is inherent in conventional toe lift hydraulic jacks. Lifts full capacity on toe or cap.

Double pumps provide both speed and power. A safety by-pass prevents overloading. Ideal for lifting heavy machinery and transformers with minimum jacking clearances. Can also be used horizontally.

Model No.	Capacity tons	Closed height inches	Travel inches	TOE			Base inches	Weight lbs.	Price
				Min. height inches	Width inches				
TJ10	10	11 1/4	6	2 1/2	3	9 1/2 x 8	54	\$308.00	
TJ25	25	14	7	2 1/2	4 1/4	9 x 12	110	371.00	
TJ50	50	18	10	3 1/4	5 1/2	11 1/2 x 14 1/4	230	602.00	

Also available as a remote control toe Jack. Information on request.

HYDRAULIC JACKS 1 1/2 TO 150 TON



No. 12HJ

Neoprene seals

Pressure tested bases

Spring controlled ball valves



No. 100B

All Simplex hydraulic jacks will operate in a horizontal or vertical position—every model ruggedly designed for heavy-duty use, for safe, easy jacking on tough jobs. Ball valves, other interior parts readily accessible for cleaning. The 25, 30, 50 and 100 ton models have high and low speed pumps which can be operated singly or in unison, and solid steel bases. The 25, 30, 50 and 100 ton models have new self-leveling ram cap which moves through 10 degree included angle to compensate for eccentric loading.

Model No.	Rated capacity tons	Low height inches	Hyd. lift inches	Exten. screw inches	Total height inches	*Net weight lbs. each	Price
1.5HJ	1 1/2	7	5 1/4	2	14 1/4	9	\$ 11.95
3HJ	3	9	6 1/4	2	17 1/4	15	19.95
5HJ	5	9	6 1/4	3	18 1/4	18	24.45
8HJ	8	9	6 1/4	4 1/4	19 1/4	21 1/2	28.75
12HJ	12	9	6 1/4	3	18 1/4	29 1/2	37.35
20HJ	20	10	6 1/4	—	16 1/4	32 1/2	60.10
*25B22	25	22	16	—	38	112	139.80
*25B28	25	28	22	—	50	132	152.50
30B	30	11	7	—	18	72	118.25
50B	50	12	7	—	19	118	185.80
50B26	50	26	20	—	46	207	356.35
100B	100	12	6 1/4	—	18 1/4	209	370.50
1503C	150	11 1/4	3 1/4	—	14 1/4	86	335.85

*Includes operating pipe handle. Jacks drilled and tapped for gauges—gauge prices on application.

†Similar to No. 30B; with more lift, they are rated at 25 tons.

ALUMINUM MANHOLE SHEAVE — NO. A220



Used on truck end and over manhole top with snatch block in manhole—eliminates skids. Handles up to 3" cable or any size winch line. 2' long, 1/4" chain supplied with hook for anchoring or protection when winch line is released suddenly.

Large Sheave		Small Sheave		Weight lbs.	Price
Diameter Inches	Width Inches	Diameter Inches	Width Inches		
7 1/4	3	4 1/4	3	44	\$104.75

SIMPLEX RE-MO-TROL HYDRAULIC PUMPS AND RAMS



Hand operated pumps and rams

A Simplex Re-Mo-Trol Unit consists basically of a powerful pump and a remotely controlled hydraulic ram, connected by a high pressure hose. It offers extremely simple operation for a thousand and one applications that it does better. Re-Mo-Trol's adaptability is unlimited because it can be used to apply force in any direction. Available to 1200 tons.

Model No.	Capacity Tons	Minimum Height	Plunger Travel	Center-Hole Dia Inches	Weight Lbs.	Recommended Pump	Price
RC102	10	4 1/2"	2"	—	7	RP3A	\$ 38.45
RC102S	10	5 1/2"	2"	—	7	RP3A	41.05
RC106	10	11 1/2"	5 1/2"	—	11	RP3A	42.55
RC202A	20	6 1/4"	2"	†	16	RP3A	93.90
RC205	20	11 1/4"	5"	—	23	RP3A	88.05
RC2112	20	10 1/2"	12"	—	45	RP6B	135.90
RC302	30	5"	2"	1 1/2"	12	RP3A	65.70
RC302.5A	30	7 1/4"	2 1/2"	†	20	RP3A	114.00
RC306P	30	9 1/4"	6"	1 1/4"	32	RP6B	109.45
RC306C	30	9 1/4"	6"	1 1/4"	32	RP6B	118.05
RC315P	30	11 1/4"	5"	1 1/4"	38	RP8B	140.60
RC315C	30	11 1/4"	5"	1 1/4"	38	RP8B	148.40
RC506S	50	10 1/2"	5 1/4"	—	45	RP6B	127.80
RC613P	60	9 1/4"	3"	1 1/4"	62	RP6B	210.10
RC613C	60	9 1/4"	3"	1 1/4"	62	RP6B	226.00
RC6010P	60	18 1/2"	10"	1 1/4"	120	RP8B	282.60
RC6010C	60	18 1/2"	10"	1 1/4"	120	RP8B	298.20
RC1103A	100	10 1/4"	3"	2 1/4"	96	RP6B	216.20
RC1110A	100	16 1/2"	10"	2 1/4"	143	•	326.85
RC1503	150	11 1/4"	3"	—	140	•	342.00
RC1506	150	14 1/4"	6"	—	168	•	383.00
RC15012	150	20 1/4"	12"	—	240	•	419.00
RC15024	150	32 1/4"	24"	—	410	•	838.00

†1/8" Thread Standard; 1 1/4" dia. unthreaded optional. *Any motorized pump. †1 1/4" Thread Standard; 1 1/4" unthreaded optional.

MANUAL PUMPS — ONE AND TWO-WAY

HAND AND FOOT-OPERATED

Simplex offers a variety of manual pumps to power Simplex rams . . . from 10 to 300-ton capacities. Pumps are of heavy-duty construction connected to tough, flexible high-pressure hose with detachable coupling. Larger reservoirs available for multiple-ram hookup. More data available in Simplex Hydraulic Catalog.

Model No.	Dimensions Inches	Piston Stroke	Oil Capacity	Max. Internal Pressure P.S.I.	Weight Lbs.	Price
RP3A	17 1/2 x 5 1/2	1	70 cu. in. (2 1/2 PTS.)	10,000	13	\$ 37.70
RP3BFC	17 1/2 x 5 1/2	1	70 cu. in. (2 1/2 PTS.)	10,000	13	55.30
RP6B	21 1/4 x 6	1	126 cu. in. (4 1/2 PTS.)	10,000	28	73.90
RP8B	23 1/4 x 6	1	126 cu. in. (4 1/2 PTS.)	10,000	36	123.20

JOURNAL AND BRIDGE JACKS

Each jack furnished with heat-treated steel lever bar



No. 3510B

Journal jacks — low height — high capacity

Alloy steel forgings, special bronze nuts, greater gear ratio. Ratchet mechanism fully enclosed except on No. 1510B, A2510B, A3510B, and A5010B have aluminum housings.



No. 2515B

No. A2515B has an aluminum housing, weighs only 42 pounds. It has a lift of 9 inches which eliminates resetting in bridge work.

Model No.	Capacity tons	Height inches	Lift inches	Weight lbs.	Price
1510B	15	10	5	28	\$ 80.50
2510B	25	10	5	38	100.45
A2510B	25	10	5	30	107.10
3510B	35	10	5	41	129.05
A3510B	35	10	5	32	138.35
A5010B	50	10	4	59	212.80
A2515B	25	15	9	42	113.05

**VAUGHAN & BUSHNELL
ELECTRICIAN HAMMERS**



Extra long poll makes it easy to get into small or restricted areas. Extra long selected hickory handle for greater reach. Precision machined face head and bevel. Handle locked into head.

Cat. No.	Head Wt. Oz.	Overall Length, In.	Std. Pkg.	Pkg. Wt. Lbs.	Each
E18	18	14	4	7	\$3.50



Scored face eliminates glancing blows — flying nails. It is designed for heavy duty use by electricians.

Milled face. Handle length, 16".

Cat. No.	Head Wt. Oz.	No. Per Box	Wt. Lbs. Per Box	Each
999ML	20	4	7½	\$5.00

SUPERSTEEL LINEMEN'S HAMMERS



Both faces are identical with a large 1½" round crowned driving surface and ample bevel to reduce possibility of chipping. The short 3¾" head is designed for use in small or confined places.

Fully polished heads and faces with smooth black eye section. Two-tone hickory handle compression fitted into head.

Cat. No.	Head Wt. Oz.	Overall Length, In.	Std. Pkg.	Pkg. Wt. Lbs.	Each
WM13	36	15¼	4	11	\$4.30

**SUB-ZERO AXES
Hollow Ground**



These axes are custom built for cold climates. The thinner, hollow ground blade penetrates deeper, releases easier and stays sharp longer. Has distinctive blue finish with silver stripes.

Cat. No.	Head Wt. Lbs.	No. Per Box	Wt. Lbs. Per Box	Each
Single Bit — Michigan Pattern				
ZSB3	3	4	19	\$6.65
Double Bit — Michigan Pattern — One Hollow Ground Blade, One Regular Blade				
ZDB3	3	4	19	\$7.15

SUPERBAR



Pulls and cuts nails — prys — lifts — pounds. Slim tapered blades easily inserted without danger of denting or marring surface.

Drop forged, spring tempered steel for severe and heavy duty uses.

Cat. No.	Wt. Oz.	No. Per Box	Wt. Lbs. Per Box	Each
B215	24	4	6½	\$2.15

**STANDARD RAILWAY FUSEE
LINEMEN'S FLARE LIGHT**

YELLOW LIGHT



For Night Repairs and Line Patrol

These Flare Lights burn with brilliant yellow light for approximately thirty minutes. They are equipped with friction cap ignition for instantaneous lighting, without matches. Not affected by wind, rain or snow.

They are invaluable during outages or other emergencies which require a quick, general illumination. Equipped with spike points, they can be quickly placed on a post or tree, or on the cross-arm of a pole, where they afford ample illumination for safe, speedy work. May be carried in the hand on line patrol.

Cat. No.	Burning Time	Std. Pkg.	Shpg. Wt. Lbs.	Per Case
3025	30 Min.	72	57	\$32.40

RED FLARE LIGHT



Protection On The Highways After Dark

An unmistakable warning signal for use in case of highway accidents, truck breakdowns, or when power lines are down on thoroughfares. Equipped with friction cap ignition and spike points. Serves the two-fold purpose of warning the public of existing danger and protecting men and equipment on the highways at night.

Cat. No.	Burning Time	Std. Pkg.	Shpg. Wt. Lbs.	Per Case
2715	15 Min.	72	27	\$16.80
2720	20 Min.	72	35	18.60
2730	30 Min.	36	25	12.60
2745	45 Min.	36	37	18.80

Set of Three 15 Minute Flares

9113	15 Min.	24 Sets	30	1.50*
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Combination Package of 30 Minute Flares**

2725	30 Min.	72	56	28.80
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**36 Red and 36 Yellow.

FLARE RACK FOR TRUCK CABS

No. 500 — Holds 5 Flares.....each \$1.40

Hundreds of tools for maintenance, construction and production are illustrated and described in Graybar's Tool Catalog No. 5192. Ask your nearby Graybar Representative for a copy.

WILLSON® HEAD PROTECTION

POLYCARBONATE "ALL PURPOSE" CAP

with Geotec® Suspension System



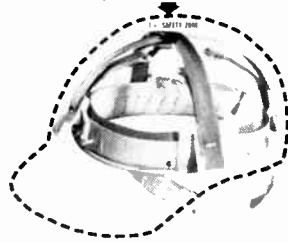
Style 50STC

This rugged, all-purpose cap meets or surpasses all impact, penetration and other mechanical requirements of the American Standards Association, Federal Specifications and the Edison Electric Institute.

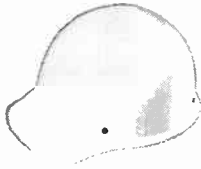
50STC features the exclusive Willson Geotec suspension system. This patented dual-suspension design provides greater head protection from both direct and glancing blows. One set of webbing is permanently fixed to maintain a safe 1¼" clearance between top of wearer's head and protective shell. Second webbing can be adjusted to conform to size and shape of head.

Style 51STH

Hat version of the cap described above.



FIBER GLASS HEADGEAR with Geotec Suspension



Light and cool, with a smooth, nonsnagging surface. Very high tensile strength-weight ratio, impervious to moisture and most chemicals.

ALUMINUM HEADGEAR with Geotec Suspension



Most comfortable safety cap for workers wanting the coolest head protection in hot weather. This cap meets USDA Forest Service Specification 177a.

NEW FEATHER-KAP™ HEAD PROTECTION



Style 62BC

This featherlight bump cap is made of sturdy polyethylene plastic. The 62BC FEATHER-KAP has a nylon webbing suspension. Molded, vinyl-covered, sponge-backed sweatband is perforated for cool comfort. Nape strap holds cap firmly on head.

WILLSON KWIK-KLIP® HEADGEAR ATTACHMENTS

A patented line of headgear attachments lets you quickly adapt additional protective devices to safety hats and caps.



Style V30-64

Popular Kwik-Klip attachments provide both eye and face protection. This model includes a Kwik-Klip headgear with a plastic visor mounting strip. Visor V64—replacement lens for V30-64—6" visor, snaps into the mounting strip.

WINTER LINER

Style WL18

For wear with dielectric hats and caps. Popular fleece-lined chino khaki gabardine. Plastic buckles. Adjustable chin strap. Large or small size.



Style WL11 LINER, economy, gold-color, fleece-lined twill. Specially treated to be flame retardant. Single universal size.

Style WL20 QUILTED LINER for wear with dielectric hats and caps in extremely cold weather. Universal size. Plastic buckles.

ORDERING INFORMATION

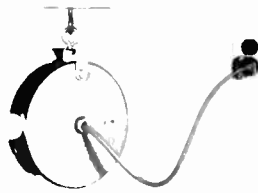
Style/Part	Description	Price	
50STC	Polycarbonate Cap. HC402 suspension. Colors: yellow, white, red, green, gray, and orange.	1-95	\$4.50
		96-497	4.15
		498-995	3.75
		996 plus	3.45
51STH	Polycarbonate Hat. Suspension and colors same as above. Equipped with lamp bracket and cord holder, add		.40
40STC	Fiber Glass Cap. HC401 suspension. Standard colors: white, red, yellow, green, and gray.	1-95	\$4.35
		96-497	4.00
		498-995	3.60
		996 plus	3.30
41STH	Fiber Glass Hat. Suspension and colors same as above.		
44STC	Aluminum Cap. HC401 suspension. Standard colors: natural, red, blue, green, and yellow.	1-95	\$4.35
		96-497	4.00
		498-995	3.60
		996 plus	3.30
45STH	Aluminum Hat. Suspension and colors same as above.		
HC401	Replacement GEOTEC suspension with vinyl sweatband for fiber glass and aluminum headgear; includes nape strap.		\$1.65
HC402	Replacement GEOTEC suspension with vinyl sweatband for polycarbonate hats and caps including nape strap.		1.65
HC405	Vinyl sweatband standard on suspension; for genuine leather, add		.40
HC231	Lamp bracket and cord holder, add		.40
62BC	FEATHER-KAP bump cap. Colors: white, yellow, blue, green, orange, and red.	1-95	\$2.25
		96 plus	2.10
V30	KWIK-KLIP PROTECTO-SHIELD® HEADGEAR with plastic visor mounting strip.		\$3.50
V64	Visor for KWIK-KLIP PROTECTO-SHIELD. Headgear size 6" x 12" x .040".		1.10
WL11	Economy Twill Winter Liner, flame retardant.	1-72	\$.95
		72 plus	.85
WL18	Gabardine Winter Liner, dielectric, small.	1-72	2.00
		72 plus	1.80
WL18	Gabardine Winter Liner, dielectric, large.	1-72	2.00
		72 plus	1.80
WL20	Quilted Winter Liner, dielectric, universal size.	1-72	2.55
		72 plus	2.30

BENJAMIN ROTA-REEL

ELECTRIC EXTENSION CORD REELS

For Use with Power Tools

MODEL 800-4



Cord set 25 feet long SJO 16/3, equipped with female connector, rated 10 amps, weight 10 lbs.

Also available for junction box and wall mounting.

Model 800-4 each **\$23.95**

MODEL 995-T

Cord set 20 feet long, SJO 18/2, equipped with handle and guard and tool tap, rated 7 amps, weight 4½ lbs.

Also available for junction box and wall mounting.

Model 995-T each **\$11.95**



MODEL 800-50-DK

Cord set 50 feet long, SVO 18/2, rated 7 amps, weight 10 lbs.

Suitable for use with microphones.

Model 800-50-DK each **\$20.95**



MODEL 800-3

Cord set 30 feet long, SJO 18/3, equipped with handle and guard and tool tap in handle, rated 7 amps, weight 10 lbs.

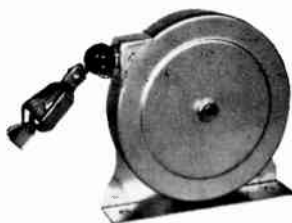
Also available for junction box and wall mounting.

Model 800-3 each **\$23.50**



GROUNDING REELS FOR STATIC DISCHARGE

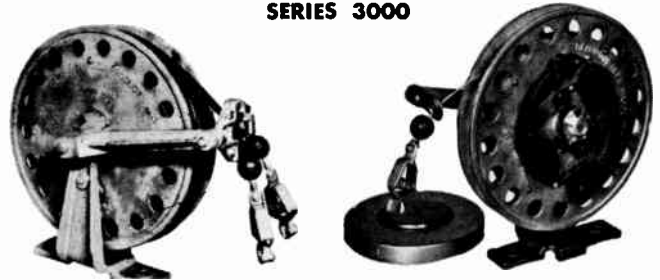
SERIES 700-H



Accommodates 3/8" diameter aircord steel galvanized cable having a tensile strength of 1000 pounds. Standard 100 ampere clip furnished, not balled unless otherwise specified. 200 amp clip also available. 2 1/8" wide x 8" x 8".

GROUNDING REELS FOR STATIC DISCHARGE

SERIES 3000



Available with 3/8" diameter galvanized aircord steel cable and a "Y" 15 feet back. Can also be supplied with speedometer cable or No. 12 neoprene jacketed oil resistant single conductor flexible wire or nylon jacketed 1/8" diameter cable.

Each end of "Y" is equipped with a 50 or 100 amp. clip, not balled, unless otherwise specified.

Eyelet or roller guide arrangement, dependent on cable specified, supplied.

Overall dimensions 6" or 7" wide x 17" x 17".

Letter "A" after Model No. designates galvanized steel aircraft cable, letter "R" No. 12 neoprene jacketed wire, letter "S" speedometer cable, letters "SS" stainless steel cable, letters "NY" nylon jacketed cable.

SERIES 200

For field installation the reel is equipped with an adaptor to secure it to a 5/8" diameter grounding rod. A ball-stop is furnished with the overhead models. 100 amp. clips with the balled feature, to fit ball studs are furnished with each reel unless otherwise specified and are made so that they can only be fastened to the ball stud.



SERIES 300

For Aircraft Fuel Servicing Coupling Nozzles

Furnished complete with a 30 inch length of spring tempered stainless steel, with a 50 amp. clip on one end of the "Y" and a NATO plug on the other end. "Y" is stainless steel cable. Reel can usually be mounted on the nozzle by use of a screw, provided for grounding cable.

Model No.	Cable Lgth. Ft.	Ratchet Latching	Wt. Lbs.	Each
200-20-GO	20	No	3 1/2	\$16.50
200-20-GOR	20	Yes	3 1/2	17.50
200-20-GS	20	No	3 1/2	18.50
200-20-GSR	20	Yes	3 1/2	19.50
700H-40-GO	40	No	6 1/2	27.50
700H-40-GOR	40	Yes	6 1/2	28.50
700H-50-GO	50	No	7	28.50
700H-50-GOR	50	Yes	7	29.50
3000A-50-GO-15Y-E	50	No	21	60.00
3000A-50-GOR-15Y-E	50	Yes	21	61.00
3000AG-50-GO-15Y-E	50	No	24	75.00
3000AG-50-GOR-15Y-E	50	Yes	24	76.00
3000R-80-GO-15Y-R	80	No	32	70.00
3000R-80-GOR-15Y-R	80	Yes	32	71.00
3000RG-80-15Y-R	80	No	37	85.00
3000RG-80-GOR-15Y-R	80	Yes	37	86.00
300-3-FN			3/8	6.75

APPLETON PORTABLE REELITES

RE-7S2 PORTABLE REELITE



RE-7S2

Re-designed throughout, the RE-7S2 Portable Reelite is the finest 7-inch reel ever sold. Outstanding among its many features is its continuous swiveling action. Double silver alloy collector brushes permit free rotation of the entire reel in either direction without power interruption or tangling of cord. Designed for vertical pendant mounting. Fits neatly over 4-inch octagonal outlet box; installation is quick and easy. Bracket RE-WB1 permits wall mounting.

Available with a wide variety of accessories (see table), such as hand-

lamps in molded plastic, or rubber, with or without switches and receptacles.

RE-7P2 PORTABLE REELITES



RE-7P2

This portable reelite with handlamp has all the features of the 7S Series, differing only in the method of installation. The 7P Series reelite consists of a universal type mounting bracket, which gives unlimited flexibility for use in hundreds of applications. The upper part of this mounting bracket has four holes, for screws when a wall installation is desired. To convert the reelite to the ceiling is accomplished by simply removing a pin and hooking the reelite into the screw-eye that is supplied with each 7P Series reel.

There is no need to remove the bracket from the wall. Wiring is also easy, as there is a standard cord plug extending from the reelite side.

RE-7SV2 VAPORPROOF TYPE

In this model are incorporated the extra safety features that safety engineers everywhere have wanted. The 7SV2 Vaporproof Reelite is furnished complete with handlamp attached as shown. Equipped with 20 feet of 18-gauge 3-conductor SJO Cord, one conductor being grounded to reel frame. This grounding feature insures the safety of the user in areas with steel flooring or walls. Ideal for wet, steamy areas, the hand-lamp is fully vaporproof, with heavy plastic handle, heavy-duty wire guard and vaporproof globe. Takes lamps up to 100 watts in the A-19 style. A world of safety and convenience at modest original cost.



RE-7SV2G GROUNDED

1500 SERIES PORTABLE REELITES

This series of portable type Reelites offers most of the features of the 7S series, except continuous swivel action. No. RE-1532 is a 5½-inch Reelite with 12 feet of cord, for use where space is limited. The 1500 Series also includes several models 10 inches in diameter, housing up to 50 feet of cord and servicing a 100-ft. circle. Finished in durable baked gray enamel.



RE-1519

APPLETON PORTABLE REELITE CAT. NOS.—250 VOLT RATING

Cat. No.	Cord Length Feet	Amp.	Cord Type*	Dia. of Reelite Inches	Max. Accessory Wt. Oz.	Each
RE-1532	12	10	16-2SJO	5½	32	\$11.60
RE-7S2	25	6	16-2SJO	7	20	16.05
RE-7SV2	20	4	18-3SJO	7	30	24.40
RE-1521†▲	25	5	18-2	7¼	..	14.45
RE-1511†▲	50	4	18-2	10	..	22.15
RE-1519	40	6	16-2SJO	10	16	21.85
RE-1520▲	50	4	18-2SJO	10	..	23.75
RE-7P2*	25	5	18-2SJO	7	14	14.60

*Rated at 125 Volts.
 †Reelites listed with 16-2 and 18-2 SJO cord will be supplied at extra cost with 18-3 SJO cord, one conductor being grounded to reel frame. To obtain this grounding safety feature, add "G" to catalog number when ordering as "RE-1532G," etc.
 ‡Designed for cloth cutting machine use.▲Will not support weight of handlamp.

ACCESSORIES FOR APPLETON PORTABLE REELITES



RE-H35R OR RE-3H35RG

RE-H2S

RE-H4S

Cat. No.	Max. Lamp Watts	Description	Wt. Oz. Each	Each
RE-H2S	100	Guard, Rubber Handle, Switch, Half Reflector, Cam-Loc Guard Lock	10	\$2.55
RE-H35R	100	Guard, Plastic Handle, Switch, Receptacle, Half Reflector, Cam-Loc Guard Lock	18	3.35
RE-H35RG	100	Guard, Rubber Handle, Switch Half Reflector, 3 Prong Ground Outlet, Cam-Loc Guard Lock	19	3.55
RE-H4S	100	Lighter and Smaller than Standard Unit, Rubber Handle, Switch Half Reflector...	14	1.40

PORTABLE REELITE ANGLE BRACKET



New Angle bracket for use with RE-7S2 Reelite. Permits wall or post mounting. Complete with 4-inch octagonal outlet box. Wt. 24 oz.
 No. RE-WB1.....each \$2.15

APPLETON "YS" REELITES

FOR FURNISHING PORTABLE POWER TO ELECTRIC HOISTS FOR CABLE LIFT OR SUSPENSION



YS

Designed principally to furnish power to traveling electric hoists operating on straight or curved tracks. Furnished complete with cord assembly and swivel base. Skinned leads with solderless lugs connected directly to terminal block on reel drum side.

Swivel base has cast stop lug limiting rotation to approximately 335°. Not recommended for endless monorail systems which require collector rings for continuous rotation. Durable two-tone black and orange baked-enamel finish. Cords furnished in maximum length only. For installations where constant tension is not desired, a gravity-type ratchet is available at extra cost.

10 AMPS., 550 A.C., 250 D.C.

Wire Gauge No.	Conductors	Cat. No.	Cord Length	Net Wt. Lbs.	Each
16	2	RE-YS162-45	45'	23	\$86.00
	3	RE-YS163-45	45'	24	89.00
	4	RE-YS164-40	40'	25	91.50

15 AMPS., 550 A.C., 250 D.C.

14	2	RE-YS142-40	40'	26	\$86.50
	3	RE-YS143-35	35'	27	88.50
	4	RE-YS144-25	25'	28	90.00

APPLETON RL10 WEATHERPROOF REELITES



RL-10

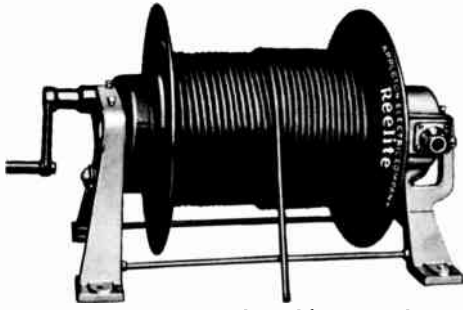
When ordering specify—catalog number of Reelite; length, gauge, and number of conductors of cable; Type of cable outlet—guide roller outlet regularly furnished; ratchet—for installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge.

Aluminum frame. Bearing and spring cartridge unit are lubricated for life. Collector rings are factory wired and ample leads are provided.

20 AMPERE — 600 VOLTS

Cat. No.	No. of Conds.	Max. Cable Capacity in Feet Type SO Cable			Each Less Cable
		No. 18	No. 16	No. 14	
RL-102	2	30	30	25	\$73.00
RL-103	3	30	30	25	76.00
RL-104	4	30	25	25	79.00

APPLETON HAND-OPERATED REELITES

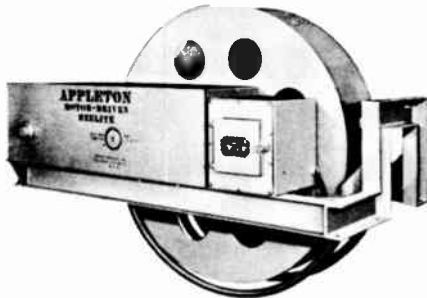


Hand-operated reelites are particularly useful for application on fire lighting trucks, mine lighting apparatus, trailers, carts, television and telephone trucks, etc., where extra long lengths of cable are required and where the cable rests on the ground. As no springs are used, a geared hand winding unit is furnished. Rails and roller outlet are eliminated as the

operator guides the cable on to the reel drum by hand.

All types of hand-operated reelites are equipped with a drag brake which provides a drag on the reel drum when unreeling cable only, thereby preventing the loosening of the layers of cable remaining on the drum. This brake cannot be used for holding purposes as the reel is not recommended for lifting service. Special hand-operated reelites are available for lifting service by adding a manually-operated drum lock.

APPLETON MOTOR DRIVEN REELITES

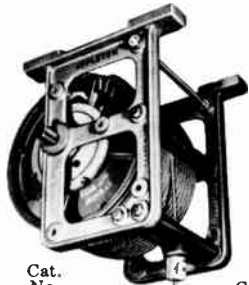


TORQUE MOTOR-DRIVEN REELS have the motor drive geared to the cable drum and operate in a manner similar to the spring-operated reel. They are used mainly for cable pick-up applications supplying power or control to electrically operated machines traveling at a constant rate of speed. In this type of drive, constant tension is maintained on the cable while winding or unwinding. Torque motors are designed and rated for a definite time stall period and are available for intermittent or continuous duty cycles depending on the operating characteristics of the moving machine.

CONSTANT SPEED MOTOR-DRIVEN REELS WITH SLIP CLUTCH may be used in place of the torque motor drive where reel is mounted overhead and cable is to be lifted. This type of drive winds the cable automatically at a constant rate of speed through a mechanical or fluid type slip clutch. This clutch compensates for variations in drum speed and provides constant tension on the cable. Cable drum may rotate in either direction even though motor drive is operating only in the forward direction.

CONSTANT SPEED MOTOR-DRIVEN REELS WITH MANUAL REVERSING DIRECT DRIVE are recommended for overhead mounting where electrical receptacles, controls, or push button stations are to be raised and lowered. In these installations, the motor is controlled by the operator at the working level. A limit switch is available for limiting travel in both raise and lower directions.

**TQ LIFT-BALANCE REELS
AUTOMATIC REWIND**



A heavy-duty spring-operated unit designed to lift-balance 15 to 65 lbs. in working range of 5 to 20 feet.

Reel furnished less $\frac{3}{16}$ " cable, steel with ratchet stop, cable stop and rubber bumper. Cast malleable iron brackets, heavy gray enamel.

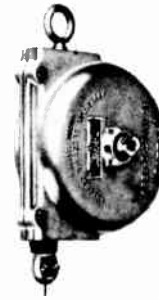
Cat. No.	Capacities	Std. Pkg.	Wt. Lbs.	Price
TQ-149	30 lbs.-5 ft.; 25 lbs.-10 ft.; 20 lbs.-15 ft.; 15 lbs.-20 ft.	1	65	\$165.00
TQ-249	65 lbs.-5 ft.; 60 lbs.-10 ft.; 50 lbs.-15 ft.; 35 lbs.-20 ft.	1	82	210.00

Suffix "W" to catalog number for wall mounting. Suffix "D" to catalog number for special cable distributor.

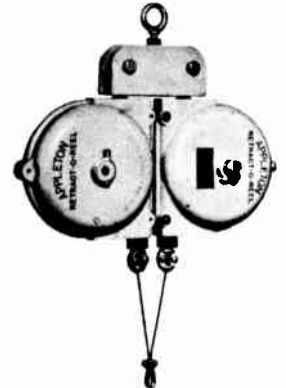
APPLETON RETRACT-O-REELS

AUTOMATIC SPRING-OPERATED BALANCE-LIFT REELS FOR PORTABLE TOOLS

Holds portable tools directly over production lines for highest efficiency. Eye bolt permits free swing in all directions.



RE-D21-010



RE-D21-020

Cat. No.	Style	Maximum Working Range	Supports Max. Wt.	Std. Pkg.	Wt. Lbs.	Price
RE-B21-010	Single	6'	10 lbs.	1	6	\$19.75
RE-B21-020	Double	6'	20 lbs.	1	14	41.25

APPLETON STATIC DISCHARGE GROUNDING REELS

Furnished complete with flexible steel cable, 100 ampere universal jaw type grounding clamp rubber covered bumper, and end stop.



SD11



SD1



SD2R-Y25

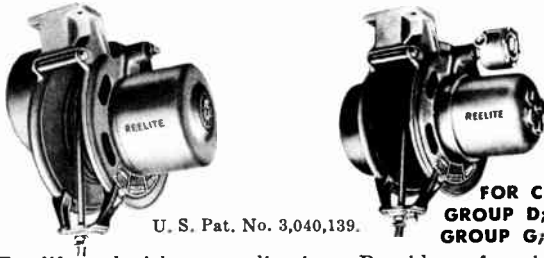
SD11 Series is all steel construction with gravity type ratchet. May be mounted on ceiling, wall, or base down position. Grounding path is maintained through steel cable and frame of reel which should be attached to a clean mounting surface to insure positive electrical continuity. Finished in baked on red enamel.

SD1 and SD2 Series is of all cast open-type construction with adjustable outlet arm. Ratchets are not standard, but are available at extra cost. In such instances, mounting position must be specified. Reel sides finished in natural aluminum. Base is malleable iron, cadmium finish.

Cat. No.	Cable Specifications	Wt. Ea.	Price
SD11	50' of $\frac{3}{32}$ " galvanized steel aviation control cable.....	10	\$27.00
SD11N	50' of $\frac{3}{32}$ " galvanized steel cable (nylon covered).....	10	32.00
SD11Y	35' of single $\frac{3}{32}$ " galvanized steel cable which branches out to two 15' lengths, each with grounding clamp. Total reeling capacity—50 ft.....	9	29.00
SD1	40' of $\frac{3}{32}$ " galvanized steel aviation control cable.....	20	51.00
SD2	80' of $\frac{3}{32}$ " galvanized steel aviation control cable.....	27	65.00
SD1R	50' #14 stranded copper (rubber covered oil-resisting cable).....	26	62.00
SD2R	100' #14 stranded copper (rubber covered oil-resisting cable).....	34	80.00
SD2Y-25	75' of $\frac{3}{32}$ " galvanized steel aviation control cable which branches out to two 25' lengths each furnished with a grounding clamp. Total reeling capacity 100 ft.....	32	84.00
SD2RY-25	75' of #14 stranded copper (rubber covered oil-resisting cable) which branches out to two 25' lengths, each furnished with a grounding clamp. Total reeling capacity 100 ft.....	35	87.00

APPLETON RL-20 REELITES

**AUTOMATIC REWIND CABLE LIFT REELS
FOR TYPE SO CABLE - 25 AMPS., 600 VOLTS
WEATHERPROOF EXPLOSION-PROOF**



U. S. Pat. No. 3,040,139.

**FOR CLASS I
GROUP D; CLASS II
GROUP G; CLASS III**

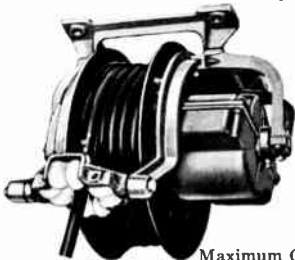
For lift and pick up applications. Provides safe uninterrupted service indoors or outdoors. Cast aluminum, steel and malleable iron construction. Weatherproof models are finished in orange, explosion proof models in red. When ordering, specify catalog number; length, gauge, and number of conductors of cable; type of cable outlet. For installations where constant tension is not desired, a gravity-type ratchet is available at extra charge.

WEATHER-PROOF			EXPLOSION-PROOF			Max. Cable Capacities (Ft.)					Wt.
Cat. No.	No. of Cond.	Price	Cat. No.	Grounding	Price	No. 18	No. 16	No. 14	No. 12	No. 10	Lbs.
RL202	2	\$165.00	RL203E	2W-3P	\$240.00	..	50	50	50	45	56
RL203	3	175.00	RL204E	3W-4P	250.00	..	50	50	45	35	57
RL204	4	185.00	RL205E	4W-5P	260.00	50	50	45	35	..	58
RL205	5	195.00	RL206E	5W-6P	270.00	50	50	35	20	..	59
RL206	6	205.00	RL207E	6W-7P	280.00	50	50	30	..	..	60
RL207	7	215.00	RL208E	7W-8P	290.00	50	45	..	..	..	61
RL208	8	225.00	RL253E	2W-3P	275.00	85	80	60	55	..	60
RL252	2	200.00	RL254E	3W-4P	285.00	80	75	55	..	..	61
RL253	3	210.00	RL255E	4W-5P	295.00	75	65	..	..	..	62
RL254	4	220.00	RL256E	5W-6P	305.00	65	60	..	..	..	63
RL255	5	230.00	RL257E	6W-7P	315.00	60	55	..	..	..	64
RL256	6	240.00									65
RL257	7	250.00									

*Smaller and larger series of explosion-proof Reelites are available—information and prices furnished on request.

APPLETON B, C, D AND E REELITES

FOR TYPE SO CABLE - 35 AMPS., 600 VOLTS



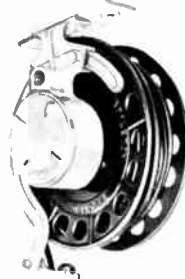
Brushes are of a high current density copper graphite set in a floating tension assembly. Copper collector rings. Highest quality clockspring, lifetime lubricated. Cast aluminum and malleable iron with black and orange enamel finish.

Cat. No.	No. of Cond.	Maximum Cable Capacities (Feet)					Wt. Lbs.	Price
		No. 18	No. 16	No. 14	No. 12	No. 10		
BS22	2	..	..	..	..	55	124	\$213.00
CS24	2	110	110	105	90	85	154	252.00
ES24	2	150	150	140	135	130	272	384.00
BS32	3	..	..	..	60	55	126	224.00
CS34	3	110	110	100	85	70	156	264.00
DS32	3	..	..	..	..	80	214	328.00
ES34	3	150	150	140	135	125	274	387.00
BS42	4	..	..	60	50	50	128	235.00
CS44	4	110	110	90	75	60	158	275.00
DS42	4	..	..	..	80	75	216	339.00
ES44	4	150	150	130	130	105	276	396.00
BS52	5	..	..	55	50	45	154	246.00
CS54	5	110	100	75	65	55	184	292.00
DS52	5	..	..	80	75	70	240	356.00
ES54	5	150	150	130	110	90	300	405.00
BS62	6	..	65	55	50	40	156	257.00
CS64	6	100	100	65	55	45	186	303.00
DS62	6	..	..	80	75	65	242	368.00
ES64	6	150	140	110	95	80	302	416.00
BS72	7	..	60	45	40	35	158	268.00
CS74	7	100	90	55	45	40	188	314.00
DS72	7	..	..	70	65	60	244	379.00
ES74	7	140	130	90	70	65	304	427.00
BS82	8	60	55	40	35	30	160	279.00
CS84	8	85	80	45	40	35	190	353.00
DS82	8	..	..	65	65	50	246	389.00
ES84	8	130	130	85	70	55	304	438.00

NOTE: When ordering, specify catalog number; length, gauge and number of conductors of cable; type of cable outlet.

APPLETON SN REELITES

**AUTOMATIC REWIND CABLE LIFT & PICK-UP REELS
WEATHERPROOF - FOR TYPE SO CABLE - 20 AMPS., 440 V.**



Weatherproof and dust-tight for both indoor and outdoor applications. Collector ring housing and wiring chambers have threaded covers to prevent entrance of dust. Covers quickly removed for easy access to collector ring chamber for wiring or maintenance.

Lifetime lubricated springs are enclosed in dust-tight housing. Heavy duty cast aluminum and malleable iron construction. Black and orange enamel finish.

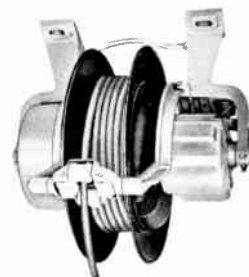
Cat. No.	No. of Cond.	Maximum Cable Capacity (Feet)				Wt. Lbs.	Each Less Cable
		No. 18	No. 16	No. 14	No. 12		
SN22	2	50	50	40	30	42	\$105.00
SN32	3	50	50	30	30	42	110.00
SN42	4	50	50	30	25	42	116.00
SN52	5	50	40	20	..	40	160.00
SN62	6	40	30	15	..	40	165.00
SN72	7	30	25	..	..	40	170.00
SN82	8	25	20	..	..	40	175.00

APPLETON BW, CW, DW AND EW REELITES

**8 TO 2 GA. - TYPE W CABLE - 2 TO 4 CONDUCTORS
100 AMPS., 600 VOLTS**

Spring-driven reel for lift and pick-up applications. Cast aluminum and malleable iron with orange and black enamel finish.

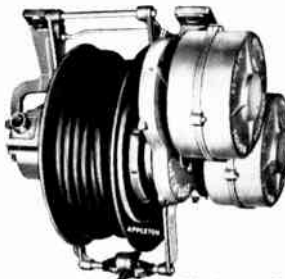
To order, specify: (1.) Catalog number. (2.) Length, gauge and number of conductors of cable, regardless if cable is or is not to be furnished. (3.) Type of cable outlet. Guide roller outlet regularly furnished. Other outlets available. (4.) Ratchet. For installations where constant tension is not desired, a gravity-type ratchet may be furnished at extra charge. Orders must specify mounting position of Reelite base.



Cat. No.	No. of Cond.	Maximum Cable Capacities (Feet)					Wt. Lbs.	Price
		No. 8	No. 6	No. 4	No. 3	No. 2		
BW22	2	45	35	20	..	..	124	\$235.00
CW24	2	55	40	25	..	..	154	285.00
DW22	2	75	65	45	35	30	212	324.00
EW24	2	90	70	..	..	..	272	373.00
EWM25*	2	90	70	..	..	..	287	490.00
BW32	3	40	30	20	..	..	126	260.00
DW32	3	65	50	35	30	25	214	339.00
EW34	3	70	55	..	..	..	274	397.00
EWM35*	3	70	55	..	..	..	289	505.00
BW42	4	30	25	15	..	..	128	285.00
DW42	4	50	40	25	20	20	216	354.00
EW44	4	55	45	..	..	..	276	409.00
EWM45*	4	55	45	..	..	..	291	520.00

APPLETON REELITES TYPE EG REELITE

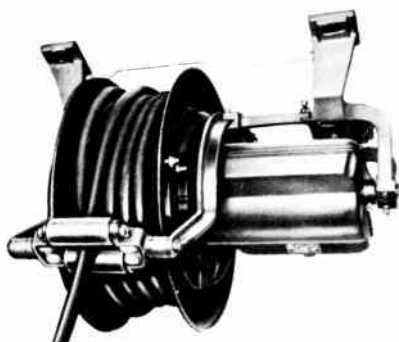
**TYPE W CABLE
100 AMPS., 600 VOLTS**



Spring driven through gears for cable lift and pick up applications. To order, specify catalog number, length, gauge, number of conductors, and type of cable outlet. Guide roller outlet regularly furnished.

Cat. No.	No. of Cond.	Maximum Cable Capacities (Feet)					Wt. Lbs.	Price
		No. 8	No. 6	No. 4	No. 3	No. 2		
EG22	2	..	75	60	55	50	358	\$619.00
EG24	2	110	105	90	70	65	372	690.00
EG32	3	75	65	55	50	45	360	670.00
EG34	3	105	100	75	65	60	374	745.00
EG42	4	70	60	50	45	40	362	686.00
EG44	4	100	85	60	55	45	376	762.00

APPLETON MULTIPLE CONDUCTOR REELITES
10 TO 24 COND. TYPE SO CABLE -
25 AMPS., 250 AND 600 VOLTS



Models are available for pickup application or lift and pickup applications. Listed below are Reelites for pickup applications only. Additional listings available on request. Cast aluminum and malleable iron, orange and black enamel finish. Standard pkg. of one.

MAXIMUM CABLE LENGTHS IN FEET
A.W.G. WIRE SIZE NO. 16

Cat. No.	No. of Cond.	Maximum Cable O.D. (Inches)						Wt. Lbs.	Price
		.75	.80	.85	.95	1.00	1.10		
		Maximum Cable Weight (Lbs./Ft.)							
		.30	.34	.39	.52	.56	.72	.85	
BPS102	10	70	65	60	...	...	...	166	\$326.00
DPS103	10	130	130	115	...	...	...	268	480.00
BPS122	12	70	65	60	...	...	...	188	348.00
DPS123	12	130	130	115	...	...	...	290	502.00
BPS142	14	...	65	60	50	...	...	190	370.00
DPS143	14	...	130	115	105	...	...	292	524.00
BPS162	16	...	...	60	50	...	...	192	392.00
DPS163	16	...	...	115	105	...	...	314	546.00
BPS182	18	...	...	...	50	45	...	194	414.00
DPS183	18	...	...	...	105	100	...	316	568.00
DPS203	20	...	...	...	105	100	80	318	590.00
DPS223	22	...	...	...	105	100	80	336	612.00
DPS243	24	...	...	...	...	80	65	338	634.00

A.W.G. WIRE SIZE NO. 14

Cat. No.	No. of Cond.	Maximum Cable O.D. (Inches)						Wt. Lbs.	Price
		.95	1.00	1.05	1.10	1.20	1.25		
		Maximum Cable Weight (Lbs./Ft.)							
		.52	.56	.64	.72	.85	.93	1.09	
BPS102	10	50	45	40	35	30	...	166	\$326.00
DPS103	10	105	100	90	80	65	...	260	480.00
BPS122	12	50	45	40	35	30	...	188	348.00
DPS123	12	105	100	90	80	65	...	290	502.00
BPS142	14	...	45	40	35	30	30	190	370.00
DPS143	14	...	100	90	80	65	60	292	524.00
BPS162	16	...	...	...	35	30	30	192	392.00
DPS163	16	...	...	...	80	65	60	314	546.00
BPS182	18	...	...	...	...	30	30	194	414.00
DPS183	18	...	...	...	...	65	60	316	568.00
DPS203	20	...	...	...	...	65	60	318	590.00
DPS223	22	...	...	...	...	60	60	336	612.00
DPS243	24	...	...	...	...	60	60	338	634.00

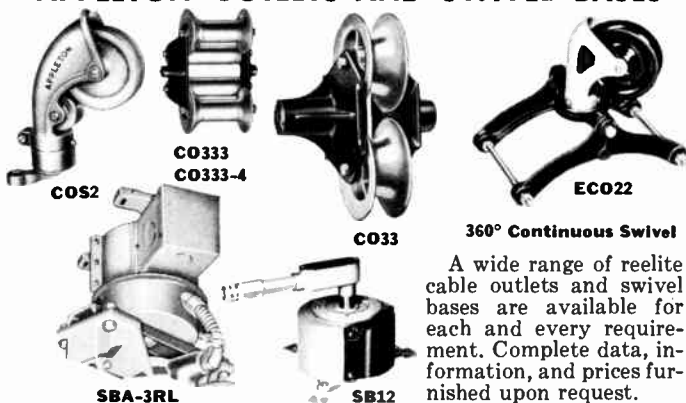
A.W.G. WIRE SIZE NO. 12

Cat. No.	No. of Cond.	Maximum Cable O.D. (Inches)				Wt. Lbs.	Price	
		1.05	1.10	1.20	1.25			
		Maximum Cable Weight (Lbs./Ft.)						
		.64	.72	.85	.93	1.09		
BPS102	10	40	35	30	30	...	166	\$326.00
DPS103	10	90	80	65	60	...	268	480.00
BPS122	12	40	35	30	30	...	188	348.00
DPS123	12	90	80	65	60	...	290	502.00
BPS142	14	...	35	30	30	...	190	370.00
DPS143	14	...	80	65	60	60	292	524.00
BPS162	16	...	...	30	30	...	192	392.00
DPS163	16	...	...	65	60	60	314	546.00
BPS182	18	...	...	...	30	...	194	414.00
DPS183	18	...	...	...	60	60	316	568.00
DPS203	20	...	...	...	60	60	318	590.00

A.W.G. WIRE SIZE NO. 10

Cat. No.	No. of Cond.	Maximum Cable O.D. (Inches)			Wt. Lbs.	Price
		1.20	1.25	1.30		
		Maximum Cable Weight (Lbs./Ft.)				
		.85	.93	1.09		
BPS102	10	30	...	...	166	\$326.00
DPS103	10	65	60	60	268	480.00
BPS122	12	30	30	...	188	348.00
DPS123	12	65	60	...	290	502.00
DPS143	14	...	...	60	292	524.00
DPS163	16	...	...	60	314	546.00

APPLETON OUTLETS AND SWIVEL BASES

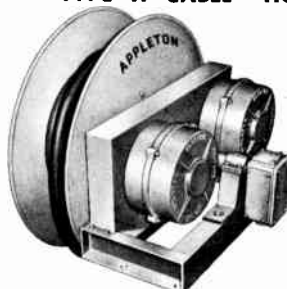


360° Continuous Swivel

A wide range of reelite cable outlets and swivel bases are available for each and every requirement. Complete data, information, and prices furnished upon request.

APPLETON HOW AND HOL REELITES
TYPE W CABLE - HOW, 100A, HOL, 200A-600V

FOR PICK-UP APPLICATIONS



Type HOW and HOL overhung reelites have type 'W' cable range of 4 to 4/0 gauge and 2 to 4 conductors. Rating of the HOW is 100 amperes, 600 volt. The HOL is 200 amperes, 600 volt. It is constructed of structural steel, cast brackets and spring housings. The HO series may be used with type 'G' series cable where extra conductor is grounded through a collector ring must be specified.

Cat. No.	Maximum Cable Capacities in Feet								Wt. Lbs.	Price
	No. 4	No. 3	No. 2	No. 1	No. 1/0	No. 2/0	No. 3/0	No. 4/0		

2 CONDUCTOR

HOW24	150	150	150	...	...	...	...	945	\$1327.00
HOW26	240	240	230	...	...	...	...	1275	1462.00
HOW28	320	320	310	...	...	...	...	1605	1597.00
HOL24	...	...	...	130	130	130	130	1000	1420.00
HOL26	...	...	...	180	180	180	180	1345	1555.00
HOL28	...	...	...	250	260	250	240	1685	1690.00

3 CONDUCTOR

HOW34	150	150	150	...	...	...	...	950	\$1342.00
HOW36	240	230	230	...	...	...	...	1280	1477.00
HOW38	320	310	300	...	...	...	...	1610	1612.00
HOL34	...	...	...	130	130	130	130	1005	1455.00
HOL36	...	...	...	180	180	180	160	1350	1590.00
HOL38	...	...	...	260	250	240	200	1690	1725.00

4 CONDUCTOR

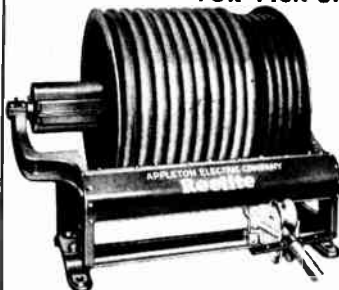
HOW44	150	150	150	...	...	...	...	955	\$1356.00
HOW46	230	230	230	...	...	...	...	1285	1492.00
HOW48	310	310	320	...	...	...	...	1615	1627.00
HOL44	...	...	...	130	130	130	130	1010	1490.00
HOL46	...	...	...	180	180	160	160	1355	1625.00
HOL48	...	...	...	250	240	200	...	1695	1760.00

WITH AUTOMATIC CABLE GUIDE

FOR PICK-UP APPLICATIONS

TYPE W CABLE

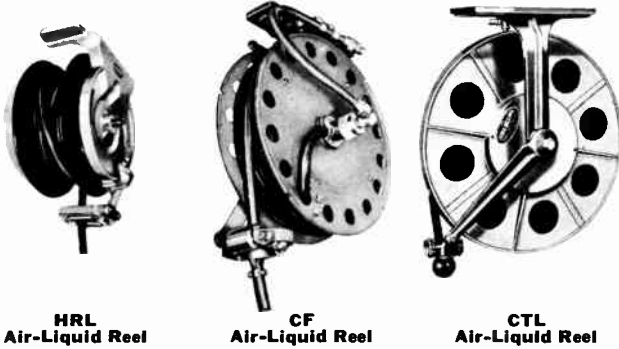
100 AMPS., 600 VOLTS



Appleton F, G, and H series automatic rewind cable reels are available for both 'SO' and type 'W' cable. Type FS series for SO cable range from 14 to 10 gauge, 2 to 4 conductors with a rating of 35 amperes, 600 volt. Type FW and GW reelites for type 'W' cable range from 8 to 1 gauge and 2 to 4 conductors with a rating of 100 amperes, 600 volt.

Cat. No.	No. of Cond.	Maximum Cable Capacities in Feet				No. 6	No. 8	Price
		No. 1	No. 2	No. 3	No. 4			
FW26	2	...	...	...	130	140	\$928.00
FW36	3	...	...	...	110	140	943.00
FW46	4	...	...	...	100	130	958.00
GW24	2	80	120	130	130	...	1010.00	
GW34	3	80	120	120	130	...	1025.00	
GW44	4	...	80	110	130	...	1040.00	

APPLETON AIR-LIQUID HOSE REELS
1/4" TO 1" I.D. OIL-RESISTANT HOSE



Automatically wind and maintain constant tension on hose lines. Can be mounted on wall or ceiling. Furnished with positive self-adjusting swivel air joint. Strong, hose has ample strength to withstand high pressures and pulsation loads.

The HRL is compactly designed, especially valuable in locations where headroom is at a premium. Sturdy overhung aluminum frame provides greater strength and reduces weight. The CF light duty Air-liquid reel is particularly useful for light pneumatic tool and blow gun applications.

The CTL is designed for heavy duty applications. Ideal for furnishing power to traveling air-motor hoists and moving machinery using pneumatic power.

Cat. No.	Hose Size I.D. x O.D.	Hose Length Feet Air	Hose Length Feet Liquid	Max. Lbs. Working Pressure	Price
HRL11-35*	1/4" x 1/2"	35	30	150	\$ 56.25
HRL21-25*	3/8" x 21/32"	25	22	150	60.00
CF12-50	1/4" x 1/2"	50	43	150	85.00
CWT11-30	1/4" x 5/8"	30	25	250	116.00
CWT11-50	1/4" x 5/8"	50	43	250	124.00
CTL11-75	1/4" x 5/8"	75	64	250	165.00
CTL11-100	1/4" x 5/8"	100	85	250	180.00
CWT21-30	3/8" x 21/32"	30	25	250	120.50
CWT21-50	3/8" x 21/32"	50	41	250	140.00
CTL21-75	3/8" x 21/32"	75	61	250	169.00
CTL21-100	3/8" x 21/32"	100	80	250	195.00
CWT31-25	1/2" x 7/8"	25	19	200	128.00
CTL31-50	1/2" x 7/8"	50	37	200	189.00
CTL31-75	1/2" x 7/8"	75	56	200	225.00
CTL31-100	1/2" x 7/8"	100	75	200	255.00
CTL41-25	3/4" x 1 1/4"	25	18	250	198.00
CTL41-50	3/4" x 1 1/4"	50	36	250	225.00
CTL41-65	3/4" x 1 1/4"	65	46	250	250.00
CTL51-25	1" x 1 1/2"	25	16	200	290.00
CTL51-40	1" x 1 1/2"	40	26	200	325.00

*Specify if ratchet is desired. Ratchet orders must specify mounting position of ratchet base. Std. Pks.

SWT AND STL AIR-LIQUID SWIVEL BASES
FOR TYPES CWT AND CTL AIR-LIQUID REELS ONLY



For use with CWT and CTL Air-Liquid Reels where continuous revolving action is required. Full 360° swivel action is afforded through precision ball bearings with self-adjusting swivel joint. Complete with fittings and short length of hose for attachment in the field.

Cat. No.	Hose Size	Max. Lbs. Working Pressure	Std. Pkg.	Price
SWT3C	For CWT Air-Liquid Reels 1/2" I.D. x 7/8" O.D.	250	1	\$84.00
STL3C	For CTL Air-Liquid Reels 1/2" I.D. x 3/4" O.C.	250	1	85.00
STL4C	3/4" I.D. x 1 1/4" O.C.	250	1	88.00

INDUSTRIAL ELECTRIC PRODUCTS CO.
SPRING-O-MATIC CABLE REELS

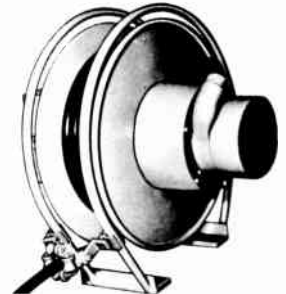
Wire Size AWG	No. Cond	Cable Length				
		40	50	60	70	80
18-16	No.	CGN332	CKN432	DV32A	DV32A	DV32A
	Net ea.	\$ 93.25	\$ 95.25	\$193.00	\$193.00	\$193.00
3	No.	CGN333	CKN433	DV33A	DV33A	DV33A
	Net ea.	\$ 95.95	\$ 99.75	\$199.00	\$199.00	\$199.00
4	No.	CKN334	CKN434	DV34A	DV34A	EV34A
	Net ea.	\$103.25	\$103.95	\$205.00	\$205.00	\$228.00
14	No.	CGN332	CKN432	EV32A	EV32A	EV32A
	Net ea.	\$ 93.25	\$ 95.25	\$214.00	\$214.00	\$214.00
3	No.	CJN333	DB33A	EV33A	EV33A	EV33A
	Net ea.	\$ 99.75	\$165.00	\$219.00	\$219.00	\$219.00
4	No.	CJN334	DC34A	EV34A	EV34A	EV34A
	Net ea.	\$104.25	\$206.00	\$228.00	\$228.00	\$228.00
12	No.	CJN332	DB32A	DV32A	EV32A	EV32A
	Net ea.	\$ 95.25	\$160.00	\$193.00	\$214.00	\$214.00
3	No.	CLN333	DB33A	EV33A	EV33A	EV33A
	Net ea.	\$112.25	\$165.00	\$219.00	\$219.00	\$219.00
4	No.	DB34A	EB34A	EV34A	EV34A	EV34A
	Net ea.	\$175.00	\$195.00	\$228.00	\$228.00	\$228.00
10	No.	DB32A	EB32A	EV32A	EV32A	EV32A
	Net ea.	\$160.00	\$180.00	\$214.00	\$214.00	\$214.00
3	No.	DB33A	EB33A	EV33A	EV33A	EV33A
	Net ea.	\$165.00	\$190.00	\$219.00	\$219.00	\$219.00
4	No.	EB34A	EB34A	EV34A	FCC34B	FCC34B
	Net ea.	\$195.00	\$195.00	\$228.00	\$332.00	\$332.00



Series C
13" dia. Flange



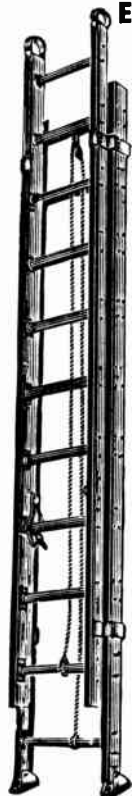
Series D & E
19" dia. Flange



Series F
24" dia. Flange

All reels are heavy duty precision made reeling devices designed for industrial applications. Lifetime lubricated spring motor gives constant tension for all types of portable power applications. Positive contact slip rings rated 35 amps, 600 volts. Optional features are explosion proof models, models with ratchets, and either 330° or 360° pivot base. Other models available up to 50 conductors and cable lengths as required.

WERNER

**FIBERGLASS-NON-CONDUCTIVE
REINFORCED SINGLE AND
EXTENSION LADDERS**


High strength non-conductive, glass reinforced polyester resin side rails, 3 1/2" wide, 1 3/8" flange. Slip-resistant, serrated 1 1/4" O.D. extruded aluminum rungs, spaced on 12" centers.

Gravity type, automatic, spring-loaded die-cast aluminum safety locks grip two rungs. Internal nylon coated guides are employed for free sliding action of base and fly section. Extra heavy vinyl bonded orange end caps. Free swinging, self-aligning, safety shoes with corded rubber, slip-resistant treads and ice pick feet.

Rungs are hydraulically swaged into rung plates by the ALFLO® (patented) HYDRO-LOK™ process which insures a TWIST-PROOF™ assembly. After the rungs and plates have been assembled the plates are securely riveted at the four corners into the fiberglass side rails with solid high strength aluminum rivets.

Electrical Characteristics

- A — Dielectric strength of web is 46KV or 350 volts/mil.
- B — Dielectric strength of flange is 48KV or 240 volts/mil.
- C — Between the rungs 12" apart, flash over occurs at 90KV.
- D — Between the rungs 24" apart, flash over occurs at 182KV.

Single Ladders

Nominal widths: outside rails 16 1/4".

Cat. No.	Lgth. Ft.	Wt. Each Lbs.	Each
7508	8	15	\$36.00
7510	10	18	44.00
7512	12	21	52.75
7514	14	24	61.50
7516	16	27	70.75

Two Section Extension Ladders

Nominal widths: fly section outside rails 16 1/4", base section outside rails 19".

Cat. No.	Lgth. Ft.	Work-Ing Lgth. Ft.	Over-lap	Wt. each Lbs.	Each
7516-2	16	13	3	31 1/2	\$74.80
7520-2	20	17	3	38	96.00
7524-2	24	21	3	44 1/2	117.00
7528-2	28	25	3	51	140.00
7532-2	32	28	4	57 1/2	161.00

ALDEK® ALUMINUM SCAFFOLD
STAIRWAY 4000 SERIES


Heat tempered 2" diameter aluminum tubular construction. Stamped "T" joints heliarc welded for safety. Base and upper sections fold easily for compact storing. End frames, stairs and top horizontal braces hinged together for fast assembly. Pierced slip resistant tread on stairways.

Cat. No.	Model	Lgth. Ft.	Wdth. Ft.	Ht.	Each
4001	Base Section	6	4 1/2	6' 6"	\$227.00
4002	Upper Section	6	4 1/2	3' 7"	141.00
4003	Guard Rail	6	4 1/2	3' 7"	67.00
4005	High Clearance Base	6	4 1/2	Clears 7'	258.00

NARROW SPAN 4100 SERIES


29" wide narrow span scaffolds—light weight—use anywhere—inside or out. Compact enough to roll through doorways without dismantling. Same high strength 2" tubular construction as in all ALDEK® products. Adjustable legs on base section. Exterior grade plywood platforms with I beam side rails and ALFLO® joined cross rungs.

Cat. No.	Model	Lgth. Ft.	Wdth. In.	Each
4102	Base Section	8	29	\$195.00
4105	Upper Section (5 1/2')	8	29	71.00
4108	Upper Section (4')	8	29	61.50
4111	Guard Rail	8	29	40.00
4114	Hi-Clearance Base	8	29	204.00

BABCOCK LADDERS

SAFETY STEP



Heavy Industrial Underwriters' Inspected

4' to 16'—Front rails 1 1/8" x 3 1/4". Back legs 1 1/8" x 2 1/2".

18' and 20' — Front rails 1 3/8" x 3". Back legs 1 3/8" x 2 3/4".

Steps 1" x 3 3/4", truss rodded. Oak back bars 7/8" x 1 3/4". No pail shelf unless specified. Bottom step and back section steel knee braced. 1/8" steel top

brackets. 1/8" steel "U" hinge. Heavy duty side spreaders. Top ends of back legs tie-riveted.

Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
3	\$10.62	7	\$21.84	14	\$50.40
4	14.16	8	24.96	16	57.60
5	16.35	10	31.20	18	78.84
6	18.72	12	37.44	20	87.60

TWIN-FRONT SAFETY STEP

Heavy Duty Industrial Underwriters' Inspected

Steps both sides. Rails 1 1/8" x 3 1/4". Steps 1" x 3 1/4". All steps truss rodded. Bottom step steel knee braced. 1/8" steel "U" hinge. Heavy duty side spreaders.



Size Ft.	Each	Size Ft.	Each
4	\$17.88	10	\$39.30
5	21.15	12	47.16
6	24.30	14	57.96
7	27.93	16	72.00
8	31.44	.....	.....

ELECTRIC STEP

General Purpose and Industrial Underwriters' Inspected (4 to 12 ft.)

4' to 16' Front rails 1 1/8" x 3 1/2". Back legs 1 1/8" x 2 1/4". 18' — Front rails 1 1/8" x 3 1/4". Back legs 1 1/8" x 2 1/2".

Steps 1 1/8" x 4"; 18' size 1" x 3 3/4". Rungs 1 1/8" Hickory. Top heavy malleable with collar attachment for back legs. All steps truss rodded; steel spreaders. Bot-

tom step and bottom rung steel knee braced. Center wood brace back section.



Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
4	\$13.20	8	\$23.28	16	\$49.44
5	15.75	10	29.10	18	70.20
6	17.64	12	34.92	.....	.....
7	20.37	14	42.84	.....	.....

MECHANICS' STEP



Painters' & Industrial Underwriters' Inspected (4 to 12 ft.)

Front rails 1 1/8" x 3 1/4". Back legs 1 1/8" x 2 1/4". Steps 1 1/8" x 3 3/4". Rungs 1 1/8" Hickory. Bottom step and back section steel knee braced. All steps truss rodded; top bracket 1/8" steel. Steel side spreaders. Automatic pail shelf. Pail shelf unless otherwise specified. Top ends of back legs tie-riveted.

Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
3	\$ 8.28	7	\$17.22	14	\$35.70
4	11.04	8	19.68	16	40.80
5	13.05	10	24.60	.....	.....
6	15.30	12	30.60	.....	.....

No. 28 HEAVY DUTY PLATFORM STEP



Underwriters' Inspected

4' to 16' — Front rails 1 1/8" x 3 1/4". Back legs 1 1/8" x 2 1/2".

18' Front rails 1 3/8" x 3". Back legs 1 3/8" x 2 3/4".

Back bars 7/8" x 1 3/4" hardwood. Top 1 1/8" x 5" x 19 1/2" Oak. Steps 1" x 3 3/4". Platform 1 1/8" x 15" x 21 3/4".

Ht. Ft. to Platform	O.A. Ht. Ft.	Plumb Drop from Platform	Each
4	6	3' 8"	\$29.22
5	7	4' 7"	31.50
6	8	5' 6"	34.02
7	9	6' 6"	37.71
8	10	7' 5"	41.58
10	12	9' 2"	48.51
12	14	11'	55.56
14	16	12' 11"	65.70
16	18	14' 10"	76.50
18	20	16' 7"	104.34

BABCOCK LADDERS

EASTERN EXTENSION



Medium Duty — Straight Bottom
Underwriters' Inspected

Rungs 1 1/8" Hickory; ends dipped in 5% Penta. Steel guide irons riveted steel to steel. "B" spring locks; rope and pulley. 2 pr. steel rung braces per section. Zinc plated hardware. Also available in 3 sections.

16' to 32' — Rails 1 3/8" x 2 3/4".
34' to 40' — Rails 1 3/8" x 3".
42' to 44' — Rails 1 3/8" x 3 1/2".

Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
16	\$20.64	26	\$33.54	36	\$49.68
18	23.22	28	36.12	38	52.44
20	25.80	30	38.70	40	55.20
22	28.38	32	41.28	42	69.30
24	30.96	34	46.92	44	72.60

CHAMPION EXTENSION

Heavy Industrial
Underwriters' Inspected

Straight bottom; spread bottom on request. Rungs 1 1/4" Hickory, ends dipped in 5% Penta. Steel guide irons riveted steel to steel. "A" steel spring locks; rope and pulley. 2 pr. steel rung braces per section. Zinc plated hardware. Also available in 3 sections.

16' to 40' — Rails 1 3/8" x 3".
42' to 44' — Rails 1 3/8" x 3 1/2".

Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
16	\$23.52	26	\$38.22	36	\$55.08
18	26.46	28	41.16	38	58.14
20	29.40	30	44.10	40	61.20
22	32.34	32	47.04	42	75.60
24	35.28	34	52.02	44	79.20



GENERAL PURPOSE EXTENSION

Medium Duty — Spread Bottom
Underwriters' Inspected

Rungs 1 1/8" Hickory, ends dipped in 5% Penta. Steel guide irons riveted to steel. "B" spring locks; rope and pulley. 2 pr. steel rung braces per section. Zinc plated hardware. Also available in 3 sections.

16' to 32' — Rails 1 3/8" x 2 3/4".
34' to 40' — Rails 1 3/8" x 3".
42' to 44' — Rails 1 3/8" x 3 1/2".

Size Ft.	Each	Size Ft.	Each	Size Ft.	Each
16	\$20.64	26	\$33.54	36	\$49.68
18	23.22	28	36.12	38	52.44
20	25.80	30	38.70	40	55.20
22	28.38	32	41.28	42	69.30
24	30.96	34	46.92	44	72.60



BERNZ-O-MATIC PROPANE GAS TORCHES

BERNZ-O-MATIC MASTER TORCH



All brass pencil flame burner or all brass utility burner for all-around heavy-duty work. Cylinders are equipped with safety relief valve. Lights instantly—requires no pumping or priming to light. Eliminates filling and spilling. Fits neatly into pocket or tool box.

Model No.	Description	Each
TX-10	Master Torch complete with burner and cylinder.....	\$5.53
TX-400-C	Small soldering tip carded.....	1.47
TX-401-C	Large soldering tip carded.....	1.53
TX-1527-C	Flame Spreader carded.....	1.13
TX-9	Disposable Fuel Cylinder.....	1.33
TX-410A	Torch Stand plastic.....	.53
TX-405-C	Sparker carded.....	.40
TX-405-B	Sparker Bulk.....	.27
TX-406-C	Carded. 1 pkg. of 6 Flint Renewals per card.....	.60

BERNZ-O-MATIC CARRY-ALL TORCH KIT

No. TX-25 Carry-All Torch Kit each\$8.00

No. TX-11 — Complete with No. TX-2 burner unit and cylinder. Weight each, 3 1/4 lbs.\$5.53



No. TX-9 TORCH REFILL CYLINDER

Interchangeable on all propane appliances.

I.C.C. approved. One inch threaded top with center sealing and pressure relief valve. Weight each, 2 1/8 lbs.

No. TX-9\$1.33



BERNZ-O-MATIC PROPANE GAS LANTERN

Dual Beam

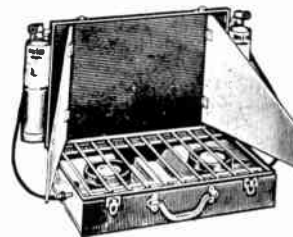
Built-in reflector — 300° frontal light beam, 360° base light beam; genuine Pyrex heat-resistant globe. Complete with disposable fuel cylinder.

No. TX-750 Lantern — 11" high, 5 1/4" wide; weight each, 8 lbs.....\$12.66



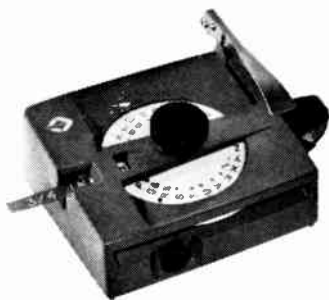
BERNZ-O-MATIC COOKSTOVES

Light a match, turn a valve, start to cook. No filling or spilling, pumping or priming. Operates on safe, disposable fuel cylinders. Cleans easily, no carbon clogging. Complete with two disposable cylinders.



No. TX-850 — 20 3/4" wide, 14 1/2" deep, 4 1/4" high; weight each, 19 lbs.....\$21.66

DYMO TAPEWRITERS®



MODEL M-75
For 3/4" Vinyl Tape

Embosses letters a full 1/2" high on 3/4" vinyl tape. "Pull-Tab" backing remover. Prints 104 characters (52 horizontally and 52 vertically) all within same wheel. Cast

aluminum body, 7" high, 14" wide, 11" deep. Baked enamel finish. Complete with one magazine of tape.
No. 1075 Tapewritereach **\$124.95**
No. 7701 Tool 'N Tape Kit consisting of M-75 Tapewriter and 9 magazines of No. 5134 tape (assorted colors in a carrying case).....each **\$174.95**

MODEL M-11
For 1/2" Metal or Vinyl Tape



Comes with hardened steel embossing wheel. Includes built-in 3/2" hole punching device. Embossing wheels easily changed. Aluminum alloy body. 10 3/8" long, 3 1/2" wide. Chrome finish. Complete with square cut-off and hole punch, one steel horizontal wheel and one plastic horizontal wheel.

No. 1011 Tapewritereach **\$49.95**
No. 7593 Tool 'N Tape Kit consisting of M-11 Tapewriter, one steel vertical wheel, one plastic special character wheel, 5 rolls contrast aluminum tape (assorted colors) and 5 rolls vinyl tape (assorted colors) in carrying case.....each **\$69.95**

MODEL M-20
For 3/8" and 1/2" Vinyl Tape



Dual track is built into tool to allow for quick changes of tape widths. Has space selector knob — spacing between letters can be varied. "Snap-in" embossing wheels can be changed without removing parts. Die cast zinc body. 11 3/8" long, 3 1/2" wide. Chrome finish. Complete with giant letter embossing wheel, one standard size letter horizontal wheel and one roll 1/2" tape.

No. 1085 Tapewritereach **\$34.95**
No. 7301 Tool 'N Tape Kit consisting of M-20 Tapewriter with one giant letter embossing wheel, one vertical wheel, one standard size horizontal wheel, 5 rolls 1/2" tape (red, green, blue, black and woodgrain) and 5 magazines 3/8" tape (red, green, blue, brown and black) in handy carrying case each**\$49.95**



MODEL M-10
For 1/4" and 3/8" Vinyl Tape

Allows for quick changing of tape track internally by movement up or down of one selector pin. Space selector permits wide or regular letter spacing. Rapid change embossing wheels and "pull-tab" cut-off. Die cast zinc body. 9" long, 3" wide. Chrome finish, charcoal blue trim. Complete with optimum size letter wheel, standard size letter wheel and one magazine 3/8" tape.

No. 1082 Tapewritereach **\$19.95**
No. 7350 Tool 'N Tape Kit consisting of M-10 Tapewriter with optimum sized letter wheel, 5 magazines 3/8" tape, 5 magazines 1/4" tape (assorted colors), one standard sized letter wheel, one vertical wheel in custom fitted carrying case. ea. **\$29.95**

DYMO TAPEWRITER TAPES

3/4" Glossy Vinyl Tape — 6' x 3/4" Regular Pack
5204-1 Clear 5204-5 Green 5204-9 Black
5204-2 Red 5204-6 Blue 5204-12 Grey
5204-4 Orange 5204-7 Yellow 5204-13 Gold
5204-8 Brown

No. 5204 6'x3/4" Regular Packeach **\$0.75**

7411-1 Clear 7411-5 Green 7411-9 Black
7411-2 Red 7411-6 Blue 7411-12 Grey
7411-4 Orange 7411-7 Yellow 7411-13 Gold
7411-8 Brown

No. 7411 6'x3/4" Blister Packeach **\$0.75**

5206-1 Clear 5206-6 Blue 5206-9 Black
5206-2 Red 5206-7 Yellow 5206-12 Grey
5206-4 Orange 5206-8 Brown 5206-13 Gold
5206-5 Green 5206-60 Wood-grain

No. 5206 12'x3/4" Regular Packeach **\$1.00**

7412-1 Clear 7412-6 Blue 7412-9 Black
7412-2 Red 7412-7 Yellow 7412-12 Grey
7412-4 Orange 7412-8 Brown 7412-13 Gold
7412-5 Green 7412-60 Wood-grain

No. 7412 12'x3/4" Blister Packeach **\$1.00**

3/8" Glossy Vinyl Tape

5201-1 Clear 5201-6 Blue 5201-12 Grey
5201-2 Red 5201-7 Yellow 5201-13 Gold
5201-4 Orange 5201-8 Brown 5201-15 Purple
5201-5 Green 5201-9 Black 5201-60 Wood-grain

No. 5201 12'x3/8" Regular Packeach **\$1.25**

7291-1 Clear 7291-6 Blue 7291-12 Grey
7291-2 Red 7291-7 Yellow 7291-13 Gold
7291-4 Orange 7291-8 Brown 7291-15 Purple
7291-5 Green 7291-9 Black 7291-60 Wood-grain

No. 7291 12'x3/8" Blister Packeach **\$1.25**

5203-2 Red 5203-6 Blue 5203-8 Brown
5203-5 Green 5203-9 Black

No. 5203 10'x3/8" Gold Stripe Vinyleach **\$1.50**

1/4" Vinyl Tape

158-1 Clear 158-7 Yellow 158-15 Purple
158-2 Red 158-8 Brown 158-16 Copper
158-4 Orange 158-9 Black 158-22 Fl. Red
158-5 Green 158-12 Grey 158-25 Fl. Green
158-6 Blue 158-13 Gold 158-60 Wood-grain
158-14 Silver

No. 158 12'x1/4" Regular Packeach **\$1.65**

No. 158-18 Assorted (one roll each of red, orange, green, blue, yellow, brown, grey, black, gold, purple)per box **\$16.50**

1/4" Gold Stripe Vinyl Tape

171-2 Red 171-6 Blue 171-8 Brown
171-5 Green 171-9 Black

No. 171 12'x1/4" Gold Stripe Tapeeach **\$1.95**

No. 171-18 Assorted (two rolls each of red, green, blue, brown and black with gold stripe)per box **\$19.50**

1/4" Metal Tape Without Adhesive

Cat. No.	Size	Per Roll	Cat. No.	Size	Per Roll
310	Aluminum	\$0.85	355	Monel	\$2.25
	16'x1/2"			21'x1/2"	
325	Stainless Steel	1.25	361	Zinc	1.10
	21'x1/2"			15'x1/2"	
348	Copper	1.85			
	21'x1/2"				

1/4" Metal Tape With Adhesive

Cat. No.	Size	Per Roll	Cat. No.	Size	Per Roll
313	Copper	\$2.40	358	Aluminum	\$1.85
	12'x1/2"			12'x1/2"	

3/8" Vinyl Tape

5134-2 Red 5134-6 Blue 5134-9 Black
5134-5 Green 5134-8 Brown 5134-60 Wood-grain

No. 5134 36'x3/8" Regular Packeach **\$6.95**

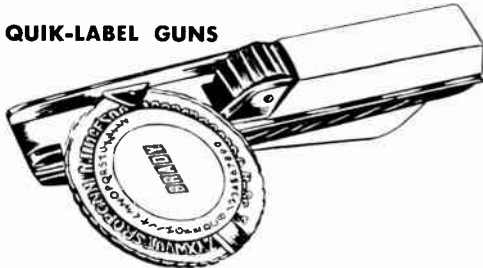
No. 5135-9 36'x3/8" Non-Glossy Finished Black Tapeeach **\$6.95**

BRADY QUIK-LABEL MACHINE



Table model, heavy-duty industrial tape embosser for use on production line, maintenance or electrical department, etc. Embosses and cuts individual labels, or provides individual labels in dispenser strip form up to 36 ft. long. High-impact plastic embossing wheel with full alphabet, numerals, punctuation marks. Dimensions: 4 3/4" wide x 6 1/4" deep x 4 1/2" high. Weight: 2 1/2 lbs.
 No. QLM-375 for 3/8" wide Tapeeach **\$16.95**
 No. QLM-500 for 1/2" Tapeeach **18.95**

BRADY QUIK-LABEL GUNS

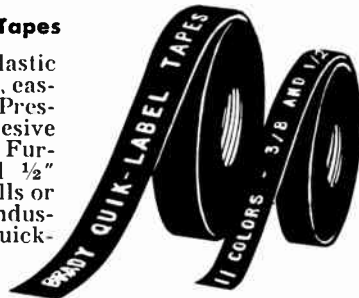


Durable hand tool for industrial and contractor use. Lifetime aluminum finish. Embosses sharp, white, full-size letters or numerals horizontally on high-contrast colored background. Embossing wheels are interchangeable . . . One gun handles both sizes of tape. (See listing for additional embossing wheels below.)

No. QLG-375 Quik-Label Gun — 3/8" Wheel...**\$14.95**
 No. QLG-500 Quik-Label Gun — 1/2" Wheel.... **14.95**
 No. QLW-375 Embossing Wheel for 3/8" wide tape **3.50**
 No. QLW-500 Embossing Wheel for 1/2" wide tape **3.50**

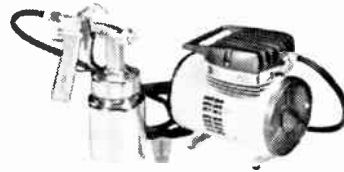
BRADY Quik-Label Tapes

Self-adhesive plastic tapes with high gloss, easily cleaned surface. Pressure-sensitive adhesive bonds on contact. Furnished in 3/8" and 1/2" widths. 12 ft. long rolls or 36 ft. long economy industrial jumbo rolls in quick-load cartons.



Color	For QLG-375 3/8" x 12 ft.	For QLG-500 1/2" x 12 ft.	For QLM-375 3/8" x 36 ft.	For QLM-500 1/2" x 36 ft.
Black	QLT-3BK	QLT-5BK	QLTJ-3BK	QLTJ-5BK
Red	QLT-3RD	QLT-5RD	QLTJ-3RD	QLTJ-5RD
Blue	QLT-3BL	QLT-5BL	QLTJ-3BL	QLTJ-5BL
Green	QLT-3GN	QLT-5GN	QLTJ-3GN	QLTJ-5GN
Yellow	QLT-3YL	QLT-5YL	QLTJ-3YL	QLTJ-5YL
Gold	QLT-3GD	QLT-5GD		
Clear	QLT-3CL	QLT-5CL		
Brown	QLT-3BN	QLT-5BN		
Orange	QLT-3OR	QLT-5OR		
Gray	QLT-3GY	QLT-5GY		
Purple	QLT-3PL	QLT-5PL		
Per Roll	\$1.25	\$1.65	\$3.20	\$4.25

**SPRAYIT
PAINT SPRAY OUTFITS**

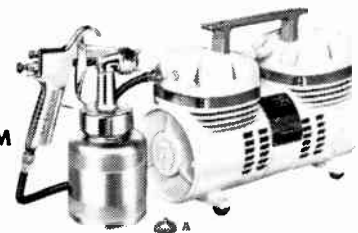


**SPRAYIT 600
PAINT SPRAYER**

Delivers high uniform volume of paint, enamel, stain or varnish under steady pressure.

Perfect for light professional work. Compressor is enclosed in compact 8-in. x 5-in. x 8-in. high, aluminum body with 120-volt 60-cycle shaded pole motor. Has 6-ft. electric cord and 8-ft. air hose. Convenient carrying handle. Sits on firm base with rubber feet.

No. 600-6 Price each complete.....**\$28.64**.....11 lbs.



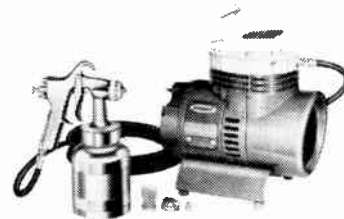
**SPRAYIT 1400
HIGH OUTPUT
TWIN DIAPHRAGM
SPRAYER**

Twin diaphragms with 3/4 HP motor. Oil-free air for any paint spraying job. Ball bearings for long life. Excellent for the professional painter where portability is needed. Unit supplied with 15-ft. hose.

SPECIFICATIONS

AIR DISPLACEMENT — 8.0 cfm.
AIR DELIVERY — 4.5 cfm at 40 psi.
MOTOR — Integral 3/4 hp, 120 volt, 60 cycle.
SAFETY VALVE SETTING — 50 lbs.
DIMENSIONS—16 1/2" x 6" x 11" high.
SPRAY GUN — with qt. container, commercial type with internal and external mix nozzles.

No. 1400 Price each complete.....**\$99.97**.....38 lbs.



**SPRAYIT 818
OIL-LESS
PISTON TYPE
PROFESSIONAL
SPRAYER**

Weights only 34 lbs. for portability and easy handling. Compressor powered by 1/2 HP motor, features on-off switch. Lifetime sealed ball bearings for trouble-free service. 8-ft. cord and 15-ft. rubber air hose included.

SPECIFICATIONS

AIR DISPLACEMENT — 4.7 cfm.
AIR DELIVERY — 3.0 cfm at 40 psi.
MOTOR — Integral 1/2 hp, 120 volt, 60 cycle.
SAFETY VALVE SETTING — 50 lbs.
DIMENSIONS—12 1/4" x 7 1/4" x 13 1/2" high.
SPRAY GUN — with qt. size container, commercial type with external and internal mix nozzles.

No. 818 Price each complete**\$66.67**.....34 lbs.

No. 901 Optional carriage**\$ 7.43**..... 8 lbs.

KENCO® High Volume, 2" Discharge HEAVY-DUTY PUMP



Ideal for emergency high-volume pumping as well as a sewage pump, Model 139 has a heavy-duty 1/2 h.p. motor, non-clog 2-vane (each 1 1/2" deep) impeller and special volute. Has same one-piece cast-bronze base with built-in leg supports and moves sewage, semi-solids and debris dependably, economically.

MODEL 139

KENCO® Heavy-Duty 1/2-H.P. All-Bronze COMMERCIAL SUMP PUMP



MODEL 65

This all-bronze workhorse of a pump is designed to do the big sump jobs in industry, construction, commercial units, shopping centers, schools, motels, etc. With its non-clog bronze impeller, 1 1/2" discharge and 1/2-h.p. motor, this power-packed pump can move great quantities of liquid or septic tank effluent plus the trash or debris that falls into pits or sumps.

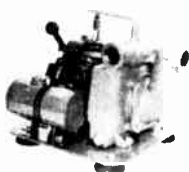
KENCO® Multi-Purpose, All-Bronze RUGGED SUBMERSIBLE PUMP



MODEL 64

Built to move fluids fast, this all-bronze submersible pump delivers dependable pumping power for domestic and industrial sumps, septic tank effluent pumping, loading docks, pedestrian underpasses, utility tunnels, elevator pits, transformer vaults, ruptured water mains.

KENCO® Portable, Weighs only 18 lbs. SELF-POWERED, SELF-PRIMING PUMP



MODEL 61

Small in size, big in pumping power, Kenco's Model 61 is ready to pump anywhere any time. Has cast-iron volute, bronze impeller and 3/4-h.p. 2-cycle engine that runs 40 minutes on a single filling.

Perfect for pumping out flooded areas or basements especially when power fails; excellent for swimming pool clean-out, pumping out cisterns, sprinkling emergency bilge pumping; useful at camp sites to pump water for kitchen use or showers; ideal for contractors, public utilities, plant maintenance crews.

MODEL NO.	61	64	65	139
Height (Inches).....	8 3/4	8 3/4	9 1/4	10 1/4
Width (Inches).....	10 1/2	9 3/4	9 3/4	8 3/4
Depth (Inches).....	9	9-3/16	9-3/16	10 3/4
Net Weight (Lbs.).....	18	38	40	50
Shipping Weight (Lbs.).....	19	40	42	52
Pumping Capacity 5'.....	2000			8600
Gals./Hour at 10'.....	1800	3000	4200	6900
Total Dynamic 15'.....	1700	1800	3420	4500
Head of 20'.....	1500		2100	1800
35'.....	1200			
50'.....	750			
Maximum Discharge Head	60'	20'	26'	23'
Discharge Pipe — NPT	1"	1 1/4"	1 1/2"	2"
PRICE	\$89.50	131.00	206.00	240.00

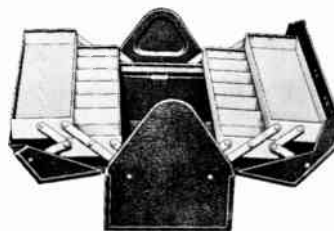
KENNEDY TOOL KITS
520 Machinists' Case



Seven drawers, felt lined, with super-compound drawer slides. Drawers may be instantly removed for cleaning. 100 key change cabinet lock. Brown ripple finish.

Nos. 520 Overall Dimensions, Inches 20 L x 8 1/2 W x 13 H Each \$25.71

MECHANICS' KITS



4 tray mechanics kit. Double seamed ends. Piano-type hinge. 3 skid rails on bottom. Roller bushed tray levers. Brown ripple finish, tray smooth green finish.

Nos. 1017 Overall Dimensions, Inches 17 L x 8 W x 10 H Each \$12.05
1018 18 L x 10 W x 12 5/8 H \$13.66
1022 22 L x 10 W x 12 5/8 H \$15.80

UTILITY KITS



CS-16/19

CS-16 and CS-19 have cantilever trays that open with lid. S-19 has lift out tray. Full grip steel handle.



S-19

Nos. CS-16 Overall Dimensions, Inches 16 L x 7 W x 7 H Each \$5.48
CS-19 19 L x 7 W x 7 H \$5.91
S-19 19 L x 7 W x 7 H \$5.91

COMBINATION UNIT—526 MACHINISTS' CHEST AND 278 ROLLER CABINET



Machinists' chest double walled for strength. Removable felt lined drawers. Multiple change pin type tumbler lock. Sturdy handles on ends.

Roller cabinet has eight full size drawers. Drop front panel with lock. Cabinet rolls easily anywhere.

Nos. 526 Overall Dimensions, Inches 26 1/2 L x 8 1/2 W x 13 1/2 H Each \$32.00
278 27 L x 18 W x 33 3/8 H \$72.36

EAGLE SAFETY CANS

TYPE I

Approved — Listed — Labeled

Underwriters' Laboratories, Inc. — Factory Mutual



Made from 24 gauge terne coated steel. Bodies and breast seamless drawn, electrically welded together. The UI-25 and UI-50 have free swing handles. The UI-2, UI-4 and UI-10 have trigger type handles.

No.	Trade Capacity	Packed In Shipping Ctn.	Weight Per Dozen	Each
UI-2	1 qt.	½ doz.	20 lbs.	\$4.43
UI-4	2 qt.	½ doz.	26 lbs.	4.98
UI-10	1 gal.	½ doz.	32 lbs.	5.31
UI-25	2½ gal.	½ doz.	66 lbs.	6.86
UI-50	5 gal.	½ doz.	90 lbs.	7.47
Flex Spouts	.....each			\$1.46
Screens	.....each			.83

EAGLE STAINLESS STEEL LAB CANS

A quality safety can for handling hazardous laboratory fluids - - -

- All Stainless Steel Construction
- Explosion-Proof Flame Arrester
- Curled-Bead Bottom for Stability
- Tight Seal Teflon Gasket
- Large-Diameter Pour Spout
- Leakproof Design

No. 1301 →

Factory Mutual
"FM" Listed & Approved



The Eagle "Crown Seal"* Stainless Steel Lab Can will prevent laboratory explosions resulting from ignition of vapors in the use of flammable liquids. It is a top-quality safety can of durable stainless steel construction and leakproof design, tested and approved by Factory Mutual. All seams are welded under electronic control to provide an airproof can. The special oblong shape conserves valuable lab shelf space. The wide 1½" pour spout enables this safety can to be filled and emptied easily. A double-walled flame arrester provides additional safety when pouring, and protects the contents against ignition caused from external sparking.

*Eagle trademark

Also available long-terne steel, painted red: 1 gal. cap.

Model No.	Material	Trade Capacity Gal.	Dimension In. H.	W.	L.	Approx. Wt. Lbs.	Packed Doz.	Each
1301	Stainless	1	13	4½	4½	3½	1/12	\$18.17
1401	Long-Terne	1	13	4½	7½	3½	1/12	7.33

JUSTRITE SAFETY CANS



1 Pint and 1 Qt. Sizes

½ Gallon and 1 Gallon Sizes

2, 3, and 5 Gallon Sizes

Non-explosive Cans — for using, handling and storing gasoline, benzine and other explosive or flammable liquids. Approved, inspected and labeled by Underwriters' Laboratories, Inc. Approved by Factory Mutual Fire Insurance Companies (as below). Finished in baked Red Enamel. Made of 24 gauge steel, lead coated. Large nozzles, easy to fill. "No-Spill" pouring lip. Balances for easy carrying. Seven sizes.

Cat. No.	Capacity	Wt. Lbs. Each	Each
10000	1 Pt.	2	\$5.33
10100	1 Qt.	2½	5.48
10200	½ Gal.	3	6.23
10300	1 Gal.	4	6.38
10500	2 Gal.	7	7.88
10700	3 Gal.	8	8.25
10800	5 Gal.	9	8.70

Used with or without "non-flash-back" baffle Screens. Screens are easily removed or inserted — can be purchased separately (\$1.30 each): not required by Underwriters' Laboratories, Inc., but are required by Factory Mutual in 1, 2, 3 and 5 gallon sizes.

JUSTRITE OILY WASTE CANS

For safe handling of waste, rags and other flammable materials. Approved and labelled by Underwriters' and Factory Mutual Insurance Companies. Body of 24 gauge galvanized sheet steel, cover No. 22 gauge. 4-inch legs, and handles, are of ½-inch band iron (1 inch wide).



With Foot Lever Attachment

Cat. No.	Size, Inches Excl. of Legs	Cap. Gal.	Shpg. Wt. Lbs.	Price Each
9-100	11¾ x 13	6	14	\$ 9.90
9-300	13½ x 15	10	17	12.50
9-500	15½ x 17	14	21	13.20

Without Foot Lever

9-110	11¾ x 13	6	12	8.70
9-310	13½ x 15	10	15	9.90
9-710	19 x 20 ½	25	25	21.75
9-910	22 x 25	40	36	32.63

With Foot Lever

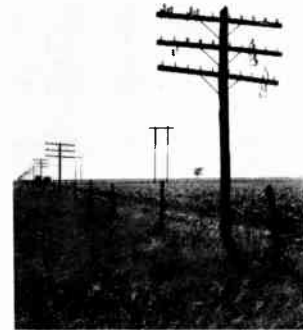
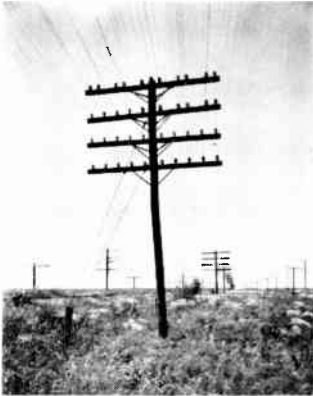
SAFETY STORAGE CABINET FOR FLAMMABLE LIQUIDS



The safe way to store cans of flammables indoors. Meets Nat'l. Fire Protection Ass'n. Code 30. Capacity 45 gals. Size: 65" high x 42" x 18". Two shelves — double walls — double doors — air vents. 18 ga. steel, baked yellow enamel. One in carton, 270 lbs.

No. 25450...each \$395.00

**INTERNATIONAL CREOSOTING AND CONSTRUCTION COMPANY
PRESSURE-TREATED SOUTHERN YELLOW PINE POLES**



Old Lines of International Creosoted Pine Poles

In Above Lines — 6712 Poles — 1/2 of 1 Per Cent Replaced in 25 Years of Service

Graybar Electric Company brings to the telephone and utility industries the highest quality in treated pine poles and submits in support of this statement the fact that International has more long-time service-records of poles without failures than any treating concern. Low annual cost, reliability, the fact that in times of financial stress or weather hazard telephone and utility companies need lines that will stand without failure, all of these features have dominated us in our pressure-treating pine pole policy.

International as a Supplier

The International Creosoting and Construction Company, organized in 1875, is one of the largest commercial creosoting companies in the business, with an outstanding record and a dominant place in the treating industry. Your attention is invited to the records of old and new lines cited in the photographs of International Poles shown above. These are typical examples of the many available.

International operates in one of the finest timber producing areas of the Southwest, and added to its advantages of natural resources and location are the skills of resourceful and experienced graduate chemical engineers and treating operators.

Work is conducted in modern and well-equipped plants and laboratories. Pioneered and trained by a background of 92 years experience, International timbermen select the cream of the timber area (surpassing even the quality of lumber logging operations) for the manufacture of Graybar-International poles. Production moves to conditioning yards at the treating plants by means of a highly developed and well organized concentrating system. The yards themselves have been built in conformity with Government seasoning recommendations.

International always uses the best grade preservative, whether it be pure coal-tar creosote, creosote-pentachlorophenol, or pentachlorophenol in petroleum distillate, in the treatment of its poles; and has stood against every tendency toward any departure in quality or reduction in quantity of the preservative that would make of the user's line an experimental laboratory.

Graybar-International treated pine poles have gone to almost every state of the union and without exception have given outstanding service.

Reasons for the Standing of the International Pine Pole

- | | |
|-----------------------|------------------------|
| 1. — Long Life | 5. — Cleanliness |
| 2. — Low Annual Cost | 6. — Fire Resistant |
| 3. — Great Strength | 7. — Bird Resistant |
| 4. — Lasting Strength | 8. — Termite Resistant |

The utilities of the United States use more pressure treated pine than all other treated pole species combined. Only briefly need their qualifications be given to account for this preference. The tall straight pine trees of the South are natural poles. They grow with a gradually tapering stem, practically without branches and when sheared of their bark and browned as the result of treatment, they present a stately appearance in the line. Their wood is the strongest of the poles commonly used in line construction. Fortunately pine is a wood into which a preservative goes very deeply during the course of a scientifically controlled treating operation and the depth of this protection is the reason for the exceedingly long life of the pine pole. The depth of this protection is the explanation also of pine's resistance to termite attacks, for the checks which open in every wood and expose it to the ravages of these insects do not go past the deep penetration in the pine pole.

Appearance and Cleanliness

Early in the history of the development of creosoted pine poles the question was raised to their use on city streets. It was believed that the bleeding of some of the poles might cause trouble if the clothing of pedestrians rubbed against them. Such objections are heard no longer either in protest or propaganda.

International's care in timber selection, the skill of its production and manufacturing forces, and advances in the science of timber treatment have all contributed to overcome these objections and to give to business districts and residential areas the economy and security of the treated pine pole.

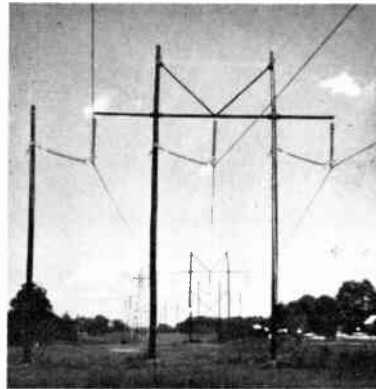
Graybar-International poles are in use in the business and residential districts of the largest cities of the United States, and in thousands of the smaller ones.

The present-day pole is clean, smooth, shapely, and stands with the appearance of tapered wrought-iron pipe, rather than of processed trees.

**INTERNATIONAL CREOSOTING AND CONSTRUCTION COMPANY
PRESSURE-TREATED SOUTHERN YELLOW PINE POLES**



The New: Decorative Street Lighting¹



EHV 2
(See footnote this page)



**Composite Poles,
For Extra Height³**

The Choice of Preservative

Creosote, the oldest known preservative in the wood preserving field, has stood the test of time and has had such wide-spread use as to prove its effectiveness under all conditions. It remains well in the wood whether the service condition is a dry area, a swamp, or even in salt-water where poles are subject to marine-borer attack. International pole lines twenty, thirty, forty years in service, still in perfect preservation, attest to creosote's lasting qualities. CREOSOTE stands as the time-established pole preservative.

Pentachlorophenol (often called Penta) is having increasing acceptance by users because it presents a somewhat cleaner pole and can be painted, if desired, after a few years of service. How the service-life will compare with poles treated with creosote no one knows and it will take years to have a definite answer to that question. As preservatives go, pentachlorophenol is comparatively young, whereas creosote does have a long established record. In all indications from the test work that has been done, pentachlorophenol is an excellent preservative.

Retention

A final retention of 8, 10, or 12 pounds of preservative per cubic foot of wood is most commonly used. Of these, the 8 - pound treatment is frequently specified. The 10 - pound and 12 - pound final retentions give a greater quantity of preservative in the wood at little extra cost. Important pole lines, costing more all the time to build, merit the higher retention.

For areas that are climatically severe; that is, high humidity or prolonged warm temperatures, or areas of heavy rainfall, 10 - pound or 12 - pound final retentions are urged. While the 8 - pound treatment, even in these areas, gives superb service the small cost of the additional preservative to protect poles and pole lines, whose value is constantly increasing, is an investment in efficiency.

1. For economical decorative street lighting, International poles are having wide use because of their straight, clean appearance and reliability.
2. For EHV — wood construction gives economy, flexibility, desirable electrical characteristics.
3. The Composite Pole for extra height. Increasingly used, well tested, are an investment in efficiency for long spans, dam crossings and river crossings.

CHARACTERISTICS OF QUALITY PINE POLES

Value of Penetration

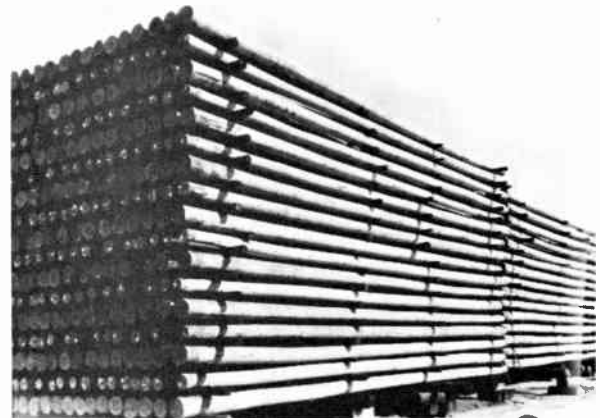


**Uniform Penetration
is a Criterion of Good
Treatment**



**Deep Penetration means
Long Life for the Poles**

Several factors are important, particularly the grade of preservative, but no single factor has such bearing on the life and the quality of treated pine poles as the *depth* and the *uniformity* of treatment penetration. Untreated wood of any species commonly used will decay eventually and the only preventive is to have the penetration of the preservative deep, uniform, and of proper grade. This is accomplished only when skilled technicians analyze the creosote and apply the treating process to well seasoned poles.



**Poles are Uniformly Stacked for Care and Seasoning
In Accordance to Size and Length**

INTERNATIONAL PRESSURE TREATED SOUTHERN YELLOW PINE POLES

Standard Specifications

The accepted standard specification for determining the class, size and dimensions of poles is that of the American Standards Assn. dated May 5, 1963. The treating specification most used is the pole treating specification of the American Wood Preservers Assn. When the user has a special specification and orders are accepted thereon, we will comply with the user's specification.

Dimensions of Southern Pine Poles (Based on a Fiber Stress of 8,000 psi)

CLASS Minimum Circumference at Top (inches) Length of pole (Feet)	Minimum Circumference at 6 Feet from Butt (Inches)									
	1	2	3	4	5	6	7	9	10	12
20	4	31.0	29.0	27.0	25.0	23.0	21.0	19.5	17.5	14.0
25	5	33.5	31.5	29.5	27.5	25.5	23.0	21.5	19.5	
30	5½	36.5	34.0	32.0	29.5	27.5	25.0	23.5	20.5	
35	6	39.0	36.5	34.0	31.5	29.0	27.0	25.0		
40	6	41.0	38.5	36.0	33.5	31.0	28.5	26.5		
45	6½	43.0	40.5	37.5	35.0	32.5	30.0	28.0		
50	7	45.0	42.0	39.0	36.5	34.0	31.5	29.0		
55	7½	46.5	43.5	40.5	38.0	35.0	32.5			
60	8	48.0	45.0	42.0	39.0	36.0	33.5			
65	8½	49.5	46.5	43.5	40.5	37.5				
70	9	51.0	48.0	45.0	41.5	38.5				
75	9½	52.5	49.0	46.0	43.0					
80	10	54.0	50.5	47.0	44.0					
85	10½	55.0	51.5	48.0						
90	11	56.0	53.0	49.0						
95	11	57.0	54.0	50.0						
100	11	58.5	55.0	51.0						
105	12	59.5	56.0	52.0						
110	12	60.5	57.0	53.0						
115	12	61.5	58.0							
120	12	62.5	59.0							
125	12	63.5	59.5							

What an Order Should Show

To avoid delays and prevent the possibility of error, an inquiry or an order for International poles should contain the following information:

1. Name of Consignee.
2. Destination of Shipment and Type of Delivery.
3. Date Shipment is Desired.
4. Number of Poles Required.
5. Length and Class or Minimum Top Diameter.
6. Type Preservative and Number of Pounds Retention required per cubic foot of wood.
7. Type of Framing Desired. A sketch is preferable. Poles can be framed more economically at the treating plant before treatment than in the field at point of installation. Insofar as possible, therefore, complete framing instructions are desirable.

INTERNATIONAL TREATED PINE POLES ESTIMATED WEIGHTS

(See footnote for 10 lb. and 12 lb. wghts.)

American Standards Association Specification Poles 8-Pound Final Retention* (Creosote or Pentachlorophenol)

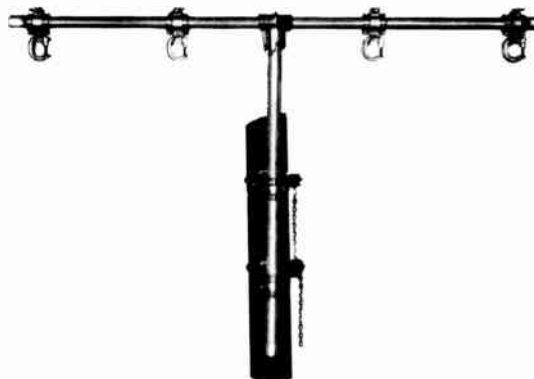
Length Pole Feet	1	2	3	4	5	6	7	9	10
16					231	198	171	127	110
18					275	242	209	154	132
20	583	506	440	380	330	286	253	176	154
25	842	726	633	550	473	413	358	259	220
30	1122	979	847	732	638	556	473	352	
35	1441	1254	1084	941	814	704	611		
40	1793	1551	1348	1166	1012	875	759		
45	2162	1876	1623	1408	1221	1062	919		
50	2563	2222	1925	1672	1447	1254	1084		
55	2987	2591	2244	1947	1689	1463			
60	3576	3252	2820	2442	2118	1836			
65	4266	3696	3204	2784	2412				
70	4806	4170	3612	3132	2718				
75	5370	4662	4038	3498					
80	5958	5166	4476	3882					
85	6576	5694	4938						
90	7206	6246	5412						
95	7860	6810	5910						
100	8538	7410	6414						

*Weights are for 8-Pound Treatment: for 10 lb. add 3%. for 12 lb. add 6%.

Price on Application

CHANCE EPOXIGLAS® AUXILIARY ARM

Epoxiglas Construction for Greater Strength



The Epoxiglas Auxiliary Arm is used to change crossarms, insulators, or poles on short spans up to and including 15KV. No. M4740-5 wire tong saddles can be used to mount the mast to the pole.

The arm has a balanced load of 600 lbs. Unbalanced, 150. Each wireholder is rated at 150 lbs. The same load ratings apply to the larger Epoxiglas Auxiliary Arm Assemblies providing side braces are used.

The adjustable wireholders can be installed to receive the conductor from either side and above or below the arm.

Cat. No.	Description	Wireholders (4) Capacity	Weight Lbs.	Each
H4862-6	2½" x 4' 11" mast			
	2½" x 6' arm	2" max.	26	\$130.00
H4862-8	2½" x 4' 11" mast			
	2½" x 8' arm	2" max.	28	136.00
H4862-61*	2½" x 10' mast			
	2½" x 6' arm	2" max.	51	238.00
H4862-81*	2½" x 10' mast			
	2½" x 8' arm	2" max.	53	244.00

*Also includes two 1½" x 6' side braces equipped with two 2½" pole clamps and one M1728-5 Wire Tong Clevis. Includes number of wireholders shown, but saddles must be ordered separately.

CHANCE EPOXIGLAS® EXTENSION ARM



The Epoxiglas Extension Arm is designed for use on voltages up to and including 15 KV where reconductoring or insulator replacement is necessary. The Epoxiglas Extension Arm can be used on voltages up to 34.5 KV providing the wireholder is insulated with the M4805-7 insulator.

The 2½" diameter pole is suspended under the crossarm by brackets to enable the conductor to be removed from the original crossarm and placed in the wireholder mounted on the Epoxiglas Extension Arm. This arm adjusts to fit crossarms from 3¼" x 4½", to 3¾" x 4¾".

Cat. No.	Description	Weight Lbs.	Each
H4800-60	5' Arm — one wireholder	11½	\$37.50
H4800-72	6' Arm — two wireholders	13	48.50
M4805-7	wireholder — insulator only	3½	7.00

RAINIER DOUGLAS FIR CROSSARMS



Indispensable characteristics in crossarms are strength and durability. Rainier fir crossarms meet these requirements. Crossarm blanks are carefully sawed from the sections of the log which provide proper density and grain slope. They are graded to eliminate any strength reducing defects then seasoned to approximate equilibrium moisture content. They are seasoned slowly with constant control throughout, the seasoning process insuring that the moisture content of the interior is substantially the same as in the surface on the arm.

American Crossarm & Conduit Company maintains excellent dry kilns and kiln control equipment, and all operations are carefully supervised by specialists who are expert in drying fir crossarms. Completely equipped manufacturing facilities and substantial lumber stocks permit prompt service to users in all parts of the country.

For those customers who prefer air dried arms the company maintains properly designed drying sheds with controlled ventilation and precision instruments for checking the character of drying while the lumber is being conditioned for manufacture into crossarms.

Rainier fir crossarms can be furnished either untreated or treated with Pentachlorophenol or Creosote of specified pressure or hot and cold dip or five-minute hot dip.

RAINIER DOUGLAS FIR CROSSARMS

Specify Pin Hole Diameters on All Orders

— Pin Holes Spacing, — Diam. *Brace Bolt Wt. Lbs.
Inches Center Holes, In. Distance Per 100
Hole, Arms

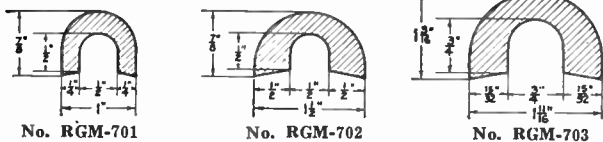
No.	Length	Pin	Center	Sides	Ends	Diam. Inches	Brace Bolt Distance	Diam.	Wt. Lbs. Per 100 Arms
RA105	5' 2"	6	16	9 3/4	3 1/2	1 1/16	28	7/16	1395
Light Distribution Arms, 3 1/4 x 4 1/4 Inches									
RA110	3'	2	28	...	4	1 1/16	25	7/16	1062
RA111	4'	4	16	12	4	1 1/16	28	7/16	1416
RA112	5'	4	18	17	4	1 1/16	28	7/16	1770
RA113	6'	4	22	21	4	1 1/16	32	7/16	2124
RA114	6'	6	16	12	4	1 1/16	32	7/16	2124
RA115	8'	6	18	17 1/2	4	1 1/16	32	7/16	2832
RA120	3' 2"	2	30	...	4	1 1/16	28	7/16	1120
RA121	5' 7"	4	30	14 1/2	4	1 1/16	38	7/16	1976
RA122	8'	6	30	14 1/2	4	1 1/16	38	7/16	2832
RA123	9' 2"	8	30	12	4	1 1/16	38	7/16	3245
RA130	3'	2	30	...	3	1 1/16	33	7/16	1062
RA131	5' 6"	4	30	13 1/2	4 1/2	1 1/16	36	7/16	1947
RA132	7' 9"	6	30	13 1/2	4 1/2	1 1/16	36	7/16	2743
RA133	10'	8	30	13 1/2	4 1/2	1 1/16	36	7/16	3540
RA140	3'	2	28	...	4	1 1/16	32	7/16	1062
RA141	5'	4	28	12	4	1 1/16	32	7/16	1770
RA142	7'	6	28	12	4	1 1/16	32	7/16	2478
RA143	9'	8	28	12	4	1 1/16	42	7/16	3186
RA144	11'	10	28	12	4	1 1/16	42	7/16	3894
Telephone Arms, 3 1/4 x 4 1/4 Inches									
RA150	6'	6	16	12	4	1 1/16	32	7/16	2124
RA151	8' 6"	10	16	9 3/4	4	1 1/16	32	7/16	3009
RA152	10'	10	16	12	4	1 1/16	42	7/16	3540
RA153	10'	10	32	10	4	1 1/16	42	7/16	3540
Telegraph Arms, 3 1/4 x 4 1/4 Inches									
RA160	6'	6	19	1/4	4	1 1/16	36	7/16	2124
RA161	10'	10	22	11 1/4	4	1 1/16	36	7/16	3540
RA162	10'	10	33	10	3 1/2	1 1/16	37	7/16	3540
Medium Distribution Arms, 3 1/2 x 4 1/2 Inches									
RA170	3' 2"	2	30	...	4	1 1/16	28	7/16	1266
RA171	4'	2	40	...	4	1 1/16	32	7/16	1600
RA172	5' 7"	4	30	14 1/2	4	1 1/16	38	7/16	2233
RA173	8'	6	30	14 1/2	4	1 1/16	38	7/16	3200
RA174	9' 2"	8	30	12	4	1 1/16	38	7/16	3666
Heavy Distribution Arms, 3 3/4 x 4 3/4 Inches									
RA190	10'	4	38	36	5	1 3/16	60V	9/16	4660
RA191	10'	8	30	13 3/4	4 1/2	1 1/16	38	7/16	4660
RA200	3'	2	30	...	3	1 1/16	33	7/16	1398
RA201	5' 6"	4	30	13 1/2	4 1/2	1 1/16	36	7/16	2563
RA202	7' 9"	6	30	13 1/2	4 1/2	1 1/16	36	7/16	3612
RA203	10'	8	30	13 1/2	4 1/2	1 1/16	36	7/16	4660

Rainier Special Crossarms

No.	RA1	RA3	RA4	RA5	RA6	RA7	RA8	RA9
Size, Inches	2 3/4 x 3 3/4	3 1/4 x 4 1/4	3 1/2 x 4 1/2	3 3/4 x 4 3/4	3 3/4 x 5 3/4	4 x 5	4 3/4 x 5 3/4	5 3/4 x 7 3/4
Wt. per Lineal Ft., Pounds...	2.70	3.54	4.00	4.66	6.00	5.20	7.50	12.00

*Brace bolt holes marked V drilled through the arm vertically; all others drilled horizontally.
Prices on application.

RAINIER WOOD GROUND WIRE MOLDINGS



Price on Application

RAINIER WOOD INSULATOR PINS

Standard Pins

No.	Size In.	Diam. Top In.	Wt., Lbs. per 100
RPL-508	1 1/4 x 8	1	32.5
RPL-509	1 1/2 x 9	1	48
Transposition Pins			
RPL-512	1 1/4 x 9	1	40
RPL-514	1 1/2 x 10	1	55
High Tension Pins			
RPL-520	1 1/2 x 9	1 3/8	60
RPL-522	1 1/2 x 11	1 3/8	75
RPL-524	1 1/2 x 12	1	62.5
RPL-525	1 1/2 x 12	1 3/8	80
RPL-527	1 3/4 x 12	1	120
RPL-528	1 3/4 x 12	1 3/8	130
Duplex Pins			
RPL-530	1 1/4 x 11 1/2	1	50
RPL-531	1 1/4 x 12	1	55
RPL-533	1 1/2 x 12	1	65
RPL-535	1 1/2 x 13	1	75



RAINIER WOOD INSULATOR BRACKETS AND POLE STEPS

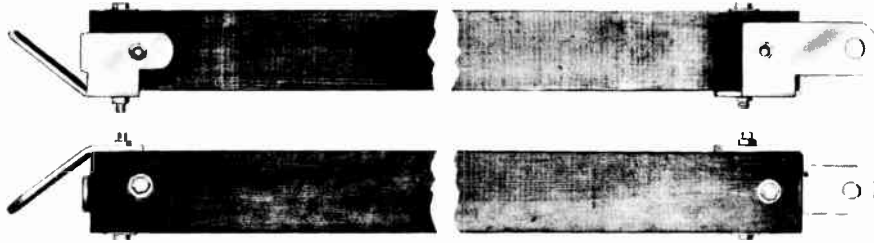


Standard Wood Brackets

No.	Size Inches	Wt., Lbs. Per 100
ROB-550-4	1 1/2 x 2 x 10	60
ROB-552-5 (AT&T)	1 3/8 x 2 x 12	80
ROB-555-6 (WU)	2 x 2 3/8 x 12	100
ROB-556-7 (WU)	2 x 2 3/4 x 12	115
Standard Wood Pole Steps		
ROB-576	1 3/4 x 2 3/4 x 7	70

No.	RGM-701	RGM-702	RGM-703
Wt. Per 1000 Lin. Ft. Lbs.	120	180	310

RAINIER WOOD CROSSARM BRACES



Static Proof Distribution Braces • Straight Grain Douglas Fir • Penta Pressure Treated • Metal Fittings Tapped and Attached with Washerhead bolts.

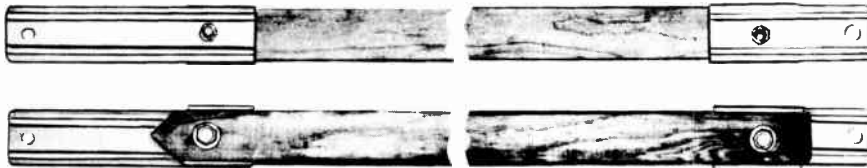
NUMBER 100 SERIES
Wood Cross Section 1 1/8" x 2 1/8"

Stock No.	Span	Drop	Wt. Per Pair (Lbs.)
100R	42"	12"	10
110R	48"	18"	10
120R	60"	18"	11 1/2
125R	60"	30"	12
100	42"	12"	10
105	42"	21"	10
110	48"	18"	10
115	48"	24"	11 1/2
120	60"	18"	11 1/2
125	60"	30"	12
130	62"	23 5/8"	12
135	72"	22"	12
140	72"	36"	14
145	84"	24"	14
150	86"	33 5/8"	15
155	90"	33 5/8"	15

NUMBER 200 SERIES
Wood Cross Section 1 5/8" x 2 5/8"

Stock No.	Span	Drop	Wt. Per Pair (Lbs.)
203	37"	18 1/2"	8
204	42"	12"	7 1/2
205	42"	21"	8 1/2
210	48"	18"	8 1/2
215	48"	24"	9
217	59"	17"	9
220	60"	18"	9 1/2
223	60"	24"	10
225	60"	30"	10 1/2
240	72"	36"	12 1/2

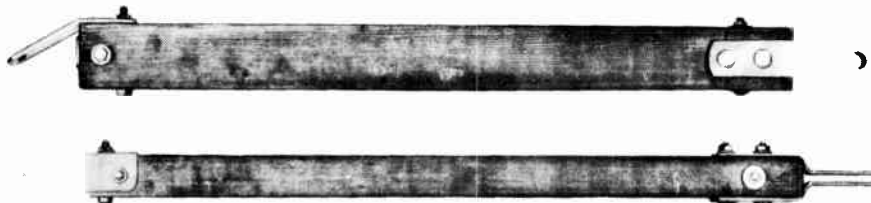
Rainier Wood Braces are available in other span and drop lengths.



NUMBER 600 SERIES
Wood Cross Section 7/8" x 1 3/4"

Stock No.	Span	Drop	Wt. Per Pair (Lbs.)
600	38"	18"	4 1/2

REVERSIBLE TYPE WOOD BRACES



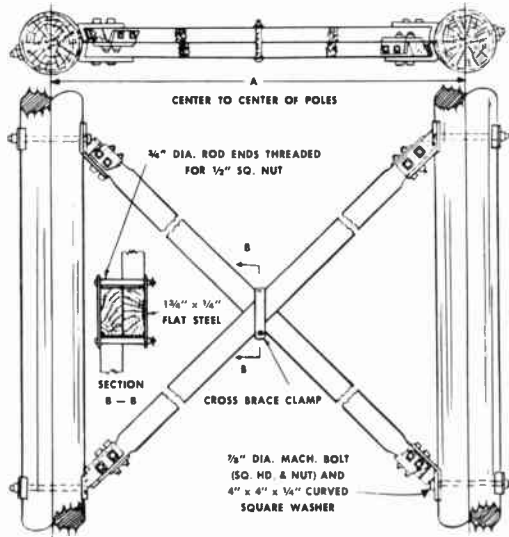
The Reversible Type Wood Braces are designed for either right or left mounting. Any two members make a pair.

NUMBER 160 SERIES

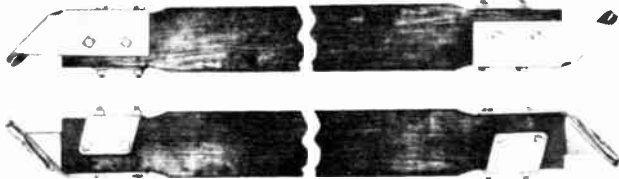
Stock Number	Wood Members	Span	Drop	Weight Pounds Per Pair
160H	1 1/8" x 2 1/8"	60"	18"	12
260H	1 5/8" x 2 5/8"	60"	18"	11
272H	1 5/8" x 2 5/8"	72"	22"	14

Price on Application

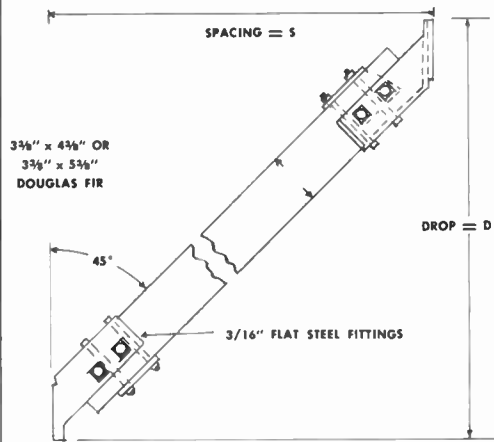
RAINIER WOOD CROSS BRACES



Wood cross braces increase the transverse strength of H-frame structures. Steel fittings are tapped to insure static-free performance and are double-dip hot galvanized. Wood is structural grade Rainier fir.

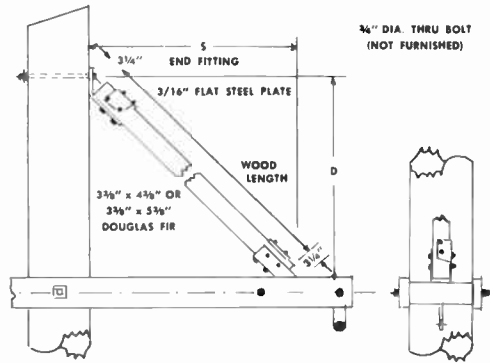


RAINIER "VEE" BRACES



No. 2000
(3 3/8" x 4 3/8" cross section)
No. 2100
(3 3/8" x 5 3/8" cross section)

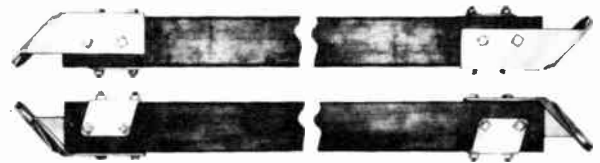
RAINIER KNEE BRACES



No. 2300
(3 3/8" x 4 3/8" cross section)
No. 2400
(3 3/8" x 5 3/8" cross section)

The mounting holes for Knee and Vee Braces may be punched for 5/8, 3/4, or 7/8 inch mounting bolts. Specify size of hole and give dimensions S & D when ordering.

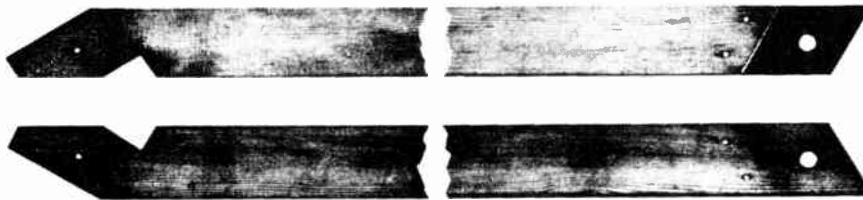
Knee and Vee Braces are identical except for angle fitting on one end. Knee Braces fit against side of pole and top of wood filler block. Vee Braces fit against side of pole and side of metal spacer fitting. Mounting bolts for both Knee and Vee Braces are ordered separately as they are not included with the brace assembly.



Stock No.	Size of Wood (Inches)	A	B Mtg. Bolt Dia. Inches	Wt. Lbs., 100 Pes.
1000	3 3/8 x 4 3/8	7' to 8' 4"	7/8	11,500
		8' 6" to 9' 10"	7/8	12,500
		10' to 11' 0"	7/8	13,500
		11' 6" to 12' 6"	7/8	17,000
		12' 8" to 13' 10"	7/8	18,000
		14' 6" to 15' 4"	7/8	20,500
1100	3 3/8 x 5 3/8	14' to 15' 4"	7/8	22,500
		15' 6" to 16' 10"	7/8	25,000
		17' to 18' 6"	7/8	27,500

RAINIER ALL WOOD BRACES

Wood Cross Section 1 3/4 x 2 3/4



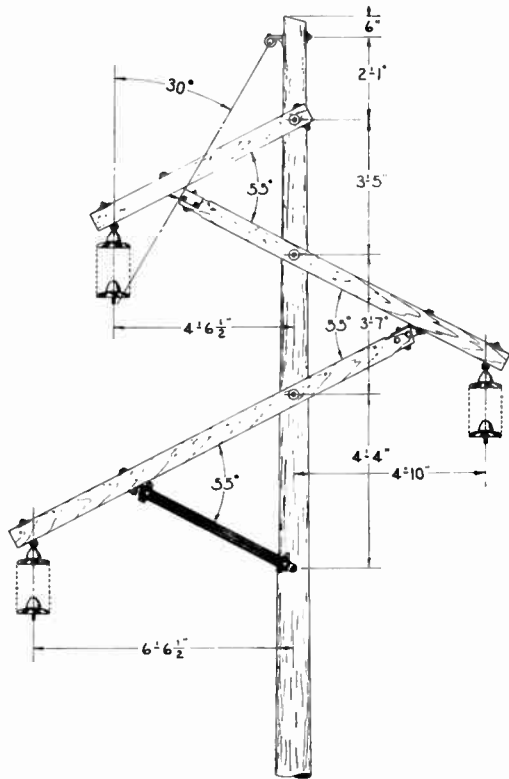
Pressure treated Douglas Fir reinforced at bolt holes with 1/4" steel spiral dowels.

Any two pieces make a pair. Right and left hand numbers are identical.

Stock No.	Span	Drop	Wt. Per Pair (Lbs.)
4212-5	42"	12 1/2"	7
4814-5	48"	14 1/2"	7 1/2
4818	48"	18"	7 1/2
4824	48"	24"	8 1/2
6018	60"	18"	9 1/2
6030	60"	30"	10
7221-5	72"	21 1/2"	10 1/2
7236	72"	36"	12 1/2

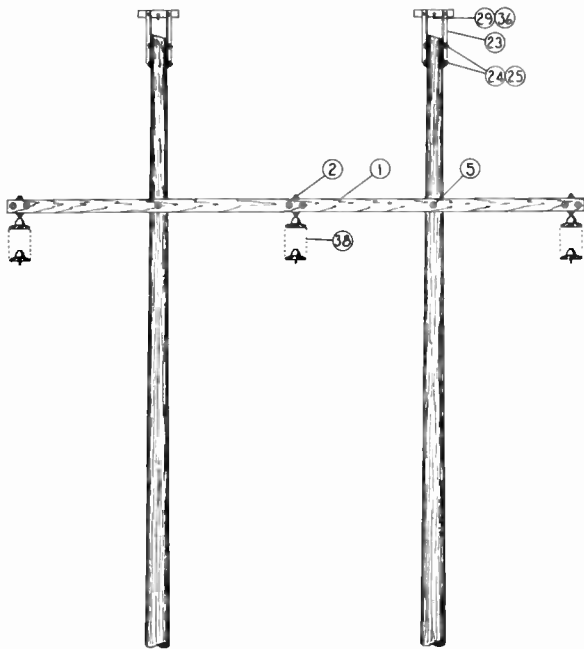
Price on Application

RAINIER TRANSMISSION LINE FIR CROSSARMS, TIMBERS AND BRACES



Type No. 601

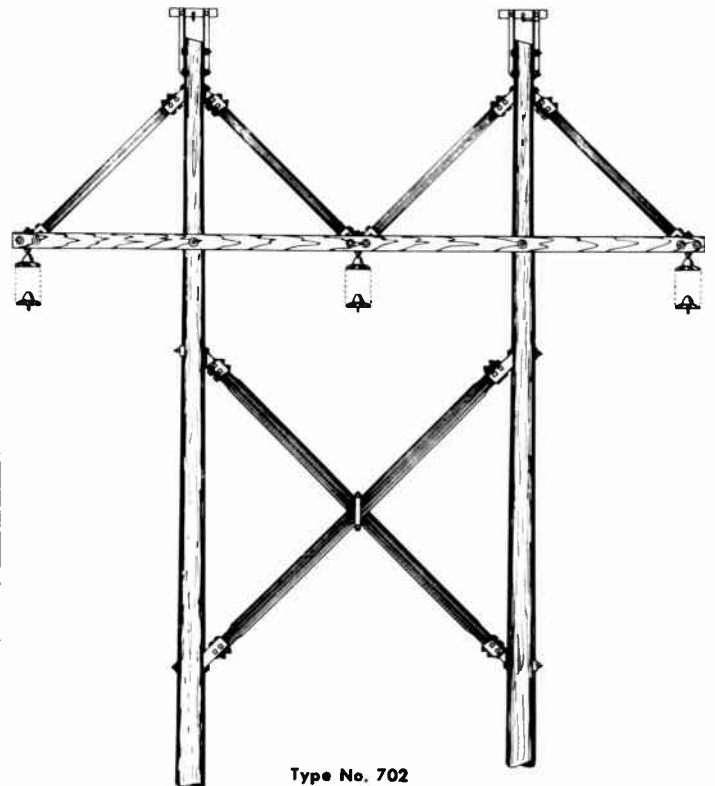
69KV TRIANGULAR Z-TYPE SINGLE POLE STRUCTURE



Type No. 700

TANGENT STRUCTURE

Adaptable for voltages from 69 to 154 KV



Type No. 702

TANGENT STRUCTURE WITH BRACES

Adaptable for voltages from 69 to 154 KV

American Crossarm & Conduit Company cross-arms for transmission lines are manufactured from carefully graded Douglas Fir and are furnished both in solid and laminated timbers.

Douglas Fir from the Pacific Northwest grows in dense stands and produces a clear, straight grained heartwood that is materially stronger than the average wood of its weight. Because of its close, tight grain, it is highly resistant to weather in any climate and has the strength and long-lasting qualities so vital to a transmission line structure.

Seasoning operations are scientifically controlled by expert timber engineers, and each piece of wood is conditioned for long years of service in the line. Laminated members are fabricated with modern equipment employing adhesives of proven performance on transmission structures.

Each of the manufacturing plants of the American Crossarm and Conduit Company is fully equipped for precision manufacture of transmission line crossarms, timbers, and braces.

Price on Application

POLE LINE HARDWARE

CLEVIS BOLTS

Used for supporting strings of suspension insulators from cross arms. Drop-forged steel, hot galvanized.



Chance	Cat. No.	Hubbard	Lgth. of Shank	Wt. Lbs. Per 100	Per 100
	5/8 Inch Shank Dia.		1/2 Inch Bolt Diameter		
15808	-----	-----	8	155	\$146.08
15810	-----	-----	10	199	149.71
15812	-----	-----	12	217	153.00
15814	-----	-----	14	241	156.40
	3/4 Inch Shank Dia.		5/8 Inch Bolt Diameter		
15828	-----	-----	8	200	166.75
15830	-----	-----	10	257	169.38
15832	-----	-----	12	280	171.98
15834	-----	-----	14	304	174.64

Dimensions: "C"—1 1/8"; "D"—1 3/8"; "E"—1 1/2"; Bolt "F" is 2 1/2" long and comes with cotter pin.

DOUBLE ARMING BOLTS WITH FULL LENGTH THREAD



These bolts permit ease of replacement in existing double arms and offer added flexibility of use. Cone-type point for easy starting . . . driving-out without damage to threads. Open-hearth steel, hot galvanized.

Chance	Cat. No.	Hubbard	Lgth. Inches	Wt. Lbs. Per 100	Per 100
	1/2 Inch Diameter				
8842	6632	-----	12	101	\$ 34.82
8844	6334	-----	14	109	37.20
8846	6336	-----	16	117	40.55
	5/8 Inch Diameter				
8862	6332	9862	12	150	53.15
8864	6334	9864	14	176	57.51
8866	6336	9866	16	182	61.78
8868	6338	9868	18	198	66.32
8870	6340	9870	20	214	70.63
8872	6342	9872	22	230	75.11
8874	6344	9874	24	246	79.29
	3/4 Inch Diameter				
8888	6538	9888	18	318	87.03
8890	6540	9890	20	338	93.21
8892	6542	9892	22	348	97.96
8894	6544	9894	24	388	105.04

DOUBLE UPSET BOLTS



Type A

Used for long span secondaries in rural construction work. The double collar spaces the insulator away from the pole. For service take offs a clevis is mounted on the threaded end of the bolt outside the insulator. Furnished with square nut, round washer, and cotter key on short end, and a square nut and M-F locknut on long end. Collar to short end is 4 5/8". Collar to collar is 1 1/2". 5/8" diameter and 1 3/8" thread on short end. Hex section between collars permits the bolt to be held while tightening the nut. Used with insulator No. 255 (not included). Wires extend about 3" from pole.

Chance	Cat. No.	Hubbard	Dimens. In.	Wt. Lbs. Per 100	Per 100
	6 Thread		Length		
7830	7526	8830	6	16 1/2	\$81.09
7832	7527	8832	6	16 1/2	84.62

MACHINE BOLTS



All bolts have square nuts and rolled threads. Perfect rolled threads insure good nut fit. Cone-type point for easy starting and driving out without damage to threads. Any size of manufacturer's standard Machine Bolts can be furnished.

Chance	Cat. No.	Hubbard	Lgth. Bolt	Inches Thread	Per 100
	3/8 Inch Bolt				
8604	5904	9604	1/2	4 1/2	\$ 9.78
	1/2 Inch Bolt				
8704	6004	9704	1/2	4 1/2	13.54
8706	6006	9706	6	3	15.21
8707	6007	9707	7	3	21.14
8708	6008	9708	8	4	22.16
8710	6010	9710	10	6	23.81
8712	6012	9712	12	6	26.61
8714	6014	9714	14	6	29.07
8716	6016	9716	16	6	31.69
8718	6018	9718	18	6	39.00
	5/8 Inch Bolt				
8806	6106	9806	6	3	22.15
8808	6108	9808	8	4	26.34
8809	6109	9809	9	4	28.07
8810	6110	9810	10	4	29.70
8812	6112	9812	12	6	33.24
8814	6114	9814	14	6	36.81
8816	6116	9816	16	6	40.42
8818	6118	9818	18	6	43.18
8820	6120	9820	20	6	47.32
8822	6122	9822	22	6	54.52
8824	6124	9824	24	6	58.74
	3/4 Inch Bolt				
8910	6210	9910	10	4	48.62
8912	6212	9912	12	6	52.51
8914	6214	9914	14	6	57.58
8916	6216	9916	16	6	65.37
8918	6218	9918	18	6	68.49
8920	6220	9920	20	6	74.52
8922	6222	9922	22	6	76.62
8924	6224	9924	24	6	82.41

OVAL EYE BOLTS



Drop-forged steel, hot galvanized. Measured from under eye to end. 6-inch bolts have 4 inches of rolled thread; 8-inch bolts or longer, 6 inches of rolled thread. Bolts with 5/8" and 3/4" shanks have 1 1/2" x 2" eyes; those with 1/2" shanks have 1 1/4" x 1 5/8" eyes.

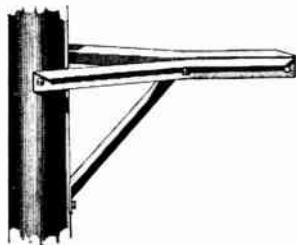
Chance	Cat. No.	Hubbard	Lgth. Under Eye	Wt. Lbs. Per 100	Per 100
	5/8 Inch Shank Dia.		3/8 Inch Eye Stock Dia.		
29958	9608	39958	8	126	\$52.56
29959	9609	39959	9	134	55.51
29960	9610	39960	10	148	55.51
29962	9612	39962	12	158	57.38
29964	9614	39964	14	172	61.48
29966	9616	39966	16	192	67.05
	3/4 Inch Shank Dia.		5/8 Inch Eye Stock Dia.		
29978	9708	-----	8	200	\$3.76
29980	9710	39980	10	222	86.42
29982	9712	39982	12	248	92.08
29984	9714	39984	14	268	96.69
29986	9716	39986	16	314	101.89

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POLE LINE HARDWARE

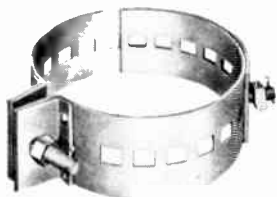
CABLE EXTENSION ARMS

Used for suspending cables at distance from pole. Standard for A.T. & T. Co. $\frac{3}{8}$ " holes at top and $\frac{1}{8}$ " holes in "T" iron brace. No. 7920 has a spacing of $9\frac{1}{4}$ " between centers of knee brace bolts; 7921, $18\frac{1}{2}$ ".



Cat. No.			Size Inches		Lgth.	Per 100
Chance	Oliver	Hubbard	Size	Angles		
7920	5211	8920	3	$x2\frac{1}{2} x \frac{1}{4}$	26	\$1668.00
7921	5212	8921	$3\frac{1}{2}$	$x2\frac{1}{2} x \frac{1}{8}$	$44\frac{1}{2}$	2437.00

ADJUSTABLE POLE BANDS AND ACCESSORIES



No. 6277



No. 456



No. 6278

$4" x \frac{1}{8}"$ flat steel bands, shipped assembled with a $\frac{3}{4}" x 4"$ curved bolt and one $\frac{3}{4}" x 2\frac{1}{2}"$ cone head bolt. Hot galvanized. Extra cone head bolts, for attaching dead end clevises and clips, must be ordered separately. One to eight attachments can be made from each pole band.

Cat. No.			Pole Dia. In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
6276	-----	-----	6-10	950	\$494.61
6277	-----	7277	8-14	1170	548.93

Accessories

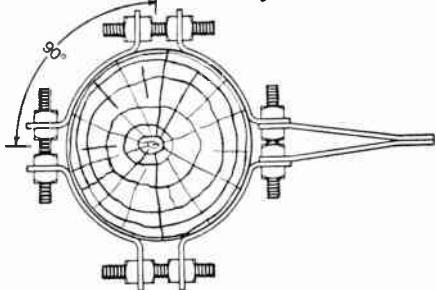
Dead end clevis has $\frac{1}{8}"$ hole to fit rectangular holes in bands, and is attached with cone head bolt. Guy clip made in two pieces: top, $2\frac{1}{2}" x \frac{1}{8}"$ steel; bottom $2\frac{1}{2}" x \frac{1}{8}"$ steel. A $\frac{3}{4}" x 2\frac{1}{2}"$ machine bolt with cotter fastens thimble. Cone head bolt has square shoulder.

Cat. No.			Steel Size In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
456*	-----	-----	$\frac{1}{8}" x 2\frac{1}{2}"$	175	\$107.49
6278†	-----	7278	See above	306	315.59
6280‡	-----	7280	$\frac{3}{4}" x 2\frac{1}{2}"$	54	47.16

*Deadened Clevis; †Guy Clip; ‡Cone Head Bolt.

ADJUSTABLE POLE BANDS

Four Way



Used on wood poles and enable four take-offs of guy and insulation attachments to be made by using connecting links. All steel is $\frac{1}{4}" x 4"$. Each band segment has a $\frac{3}{4}" x 6"$ all-thread bolt and a $\frac{1}{8}"$ dia. hole for lag screw. 90° type.

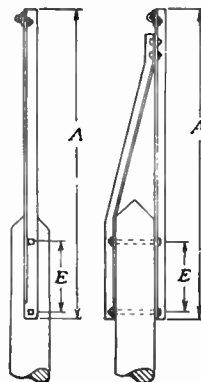
Cat. No.			Pole Dia. In.*	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
9020	-----	-----	6 -11 $\frac{1}{2}$	1350	\$450.12
2387	2463	-----	7 $\frac{1}{2}$ -12	1500	448.95

*Minimum diameters shown are with inside nuts removed from bolts.

GROUND WIRE BAYONETS

Used for supporting the overhead ground wire on wood or steel poles.

All bayonets have two $\frac{1}{8}$ -inch holes for $\frac{5}{8}$ -inch diameter through bolts with the upper holes $\frac{1}{8}$ -inch diameter which allows the use of Nos. 5450 and 5451 Ground Wire Clamps. The through bolt holes in the bayonets are slotted $\frac{1}{8}$ -inch wide by $1\frac{1}{2}$ inches long to allow for any inaccuracy in boring bolt holes in the poles.



Cat. No.			Dimens. In.		No. 5466	No. 5566
Chance	Oliver	Hubbard	A	E	Size Angle	Per 100
Straight Bayonets						
5466	5192	-----	66	15	$2\frac{1}{2} x 2\frac{1}{2} x \frac{1}{4}$	\$ 618.54
Corner Bayonets						
5566	5197	-----	66	15	2 x2 x $\frac{1}{4}$	1058.28

CARRIAGE BOLTS



All bolts have square nuts, finished points and rolled threads — assuring good nut fit. Any size of manufacturer's standard Carriage Bolts can be furnished. Open hearth steel, hot galvanized. Furnished with standard heads, shoulders, nuts and rolled heads.

Chance	Cat No. Oliver	Hubbard	Size Inches		Per 100
			Bolt Lgth.	Thread Lgth.	
$\frac{3}{8}$ Inch Diameter					
8634	5304	9634	4	1 $\frac{3}{4}$	\$ 8.80
8634 $\frac{1}{2}$	5304 $\frac{1}{2}$	9634 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{3}{4}$	9.30
8635	5305	9335	5	1 $\frac{3}{4}$	9.76
8635 $\frac{1}{2}$	5305 $\frac{1}{2}$	9635 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{3}{4}$	10.08
8636	5306	9636	6	3	10.49
$\frac{1}{2}$ Inch Diameter					
8644 $\frac{1}{2}$	5404 $\frac{1}{2}$	9644 $\frac{1}{2}$	4 $\frac{1}{2}$	3	10.88
8645	5405	9645	5	3	14.75
8646	5406	9646	6	3	16.08
$\frac{5}{8}$ Inch Diameter					
8676	5556	9676	6	3	22.73

DOUBLE ARMING EYE BOLTS



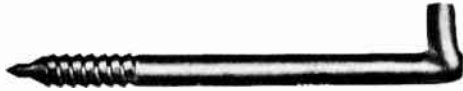
An easy method of dead-ending lines on double arms. Furnished with three square nuts but no washers. Thread is cut within 4 inches of eye. Cone-type point for easy starting. Size of eyes $1\frac{1}{2}" x 2"$. Drop-forged steel, hot galvanized. Thread length is 2" less than length under eye.

Chance	Cat. No. Oliver	Hubbard	Lgth. Under Eye Inches		Wt. Lbs. Per 100	Per 100
$\frac{5}{8}$ Inch Diameter						
19784	7914	29784	14	196	\$100.44	
19786	7916	29786	16	214	103.93	
$\frac{3}{4}$ Inch Diameter						
19800	8920	-----	20	350	156.50	
19802	8922	-----	22	370	160.84	
19804	8924	-----	24	390	165.96	
19806	8926	-----	26	400	170.04	

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POLE LINE HARDWARE

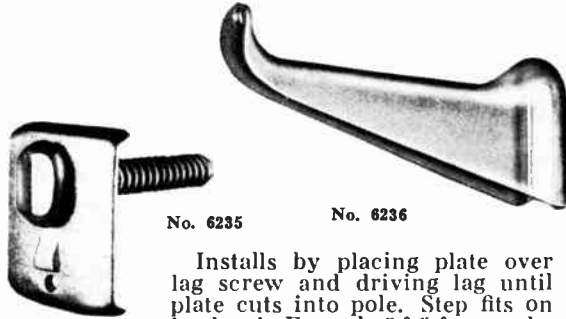
POLE STEPS



Made from the best grade hot-rolled open-hearth steel, which insures maximum strength. Standard Hook Head type has fetter drive thread which permits easy installation.

Cat. No.			Size	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	Inches	Per 100	Per 100
506125	7982	7125	5/8 x 10	95	\$27.92

DETACHABLE POLE STEPS

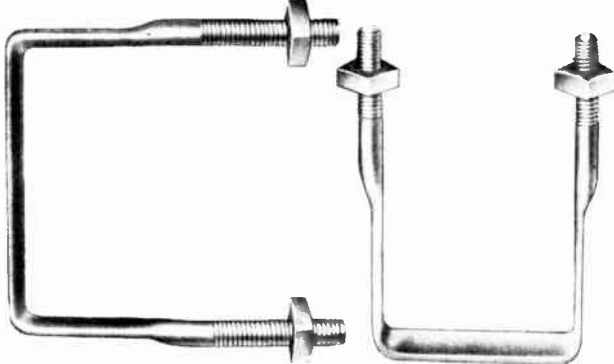


No. 6235 No. 6236

Installs by placing plate over lag screw and driving lag until plate cuts into pole. Step fits on lag head. Extends 5 1/8" from pole.

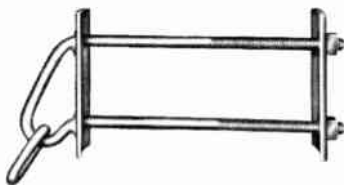
Cat. No.			Description	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard		Per 100	Per 100
6235	1320	7235	Lag & Plate	50	\$31.88
6236	1325	7236	Step	65	41.91

CROSSARM STRAPS



Cat. No.			Arm Size In.	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard		Per 100	Per 100
For Mounting Material on Side of Arm — Light Type					
0002	3302	----	3 1/2 x 4 1/2	104	\$52.13
For Mounting Material on Top or Bottom of Arm — Heavy Type					
0881	----	----	3 1/4 x 4 1/4	145	59.08
0882	3332	1882	3 1/2 x 4 1/2	150	63.38
0883	3333	1883	3 3/4 x 4 3/4	156	68.32

OVERHEAD GROUND WIRE SUPPORT



The Overhead Ground Wire Support is made from heavy steel rods and is designed to carry static wires. The bracket bolts securely through the pole. It is made

in four sizes for poles from 6 to 14 inches in diameter. The load plate is welded to the rods while the back plate can be adjusted to fit the pole. A suspension clamp can be hung from the forged link on the bracket.

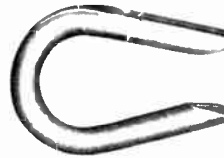
Cat. No.			For Pole Dia.	Steel Size	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard			Per 100	Per 100
5432	1301	----	8—10	5/8	630	\$274.93
5433	1302	----	10—12	5/8	646	285.19

MULTIPLE WIRE TELEPHONE HANGERS



Cat. No.			Dimens. In.		Per 100
Chance	Oliver	Hubbard	Lgth.	Width	
Pole Mounting Type					
8266	4935	9266	7	1 3/4	\$ 75.88
Cross Arm Mounting Type					
8256	4945	9256	11	1 3/4	125.13

WIRE ROPE THIMBLES



A true lay for guy wire. Made from crescent shaped stock and grooved to fit the various strand sizes.

Cat. No.			Strand Size	Size of Guy Rod Clearance	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard			Per 100	Per 100
*6594	9031	7594	1/2	5/8 & 3/4	16.5	\$10.27
*6595	9032	7595	5/8	1	40.5	25.25

*E.E.I. Standard.

SPRING WASHERS

Used on bolt next to cross arm to keep parts tight by compensating for wood shrinkage. Heat-treated spring steel.



Cat. No.			Dimens. In.		Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	Bolt Size	Slot Size	Per 100	Per 100
1/4" x 1 3/4" Steel Size — 3 3/4" Overall Length						
3540	3038	4540	5/8	3/4 x 7/8	94	\$35.11
3541	3039	4541	3/4	7/8 x 1	92	35.11

RIB LOCK WASHERS

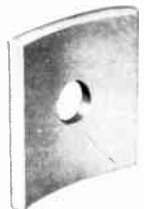


These washers are made of special analysis, alloy steel, and properly heat treated to secure the greatest amount of toughness and reaction. Designed for use with short shank forged steel pins on angle steel cross arms.

Cat. No.			Dimens. In.		Steel Size	Per 100
Chance	Oliver	Hubbard	Bolt Size	Hole Dia.	Per 100	Per 100
4034	3093	5034	3/8	7/16	1/8 x 3/2	\$.52
4035	3097	5035	1/2	1/2	1/4 x 1 1/8	.87
4036	3098	5036	5/8	1 1/8	3/8 x 1 3/8	1.74
4037	3099	5037	3/4	1 1/8	1/2 x 1 3/8	2.97

STUBBING WASHERS

When reinforcing a rotted pole with a new stub, stubbing washers are used on both ends of the bolt which draws in the wires wrapped around the pole and stub, also on both ends of the through-bolt which is sometimes run through pole and stub.



Cat. No.			Washer Size	Hole Dia.	Bolt Dia.	Per 100
Chance	Oliver	Hubbard				Per 100
6809 1/2	6973	7809 1/2	4 x 4 x 1/4	1 1/8	7/8	\$29.74
6822	6951	7822	2 1/2 x 2 1/2 x 1/4	1 1/8	5/8	9.14
6823	6952	7823	3 x 3 x 1/4	1 1/8	3/4	16.63
6823 1/2	6952 1/2	7823 1/2	3 x 3 x 1/4	1 1/8	5/8	16.83

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POLE LINE HARDWARE

CABLE SUSPENSION CLAMPS

For Power, Telephone and CATV Cable Systems



These clamps are used with through bolts to support cable at poles. The through bolt also serves as a clamping member. One or more nuts and/or washers are used between the pole and the clamp to provide the required spacing.

Chance	Cat. No.		Lgth. In.	Dimens. In.		Per 100
	Oliver	Hubbard		Mtg. Hole	Clamping Range	
	1-Bolt Straight Suspension					
7901	5061	8901	2 3/8	1 1/8	5/8 - 3/8	\$30.74
7902		8902	7	1 3/8	5/8 - 7/8	227.82
	3-Bolt Heavy Angle Suspension					
7902-L			7	1 1/8	5/8 - 3/8	74.53
7902-R	15071		7	1 3/8	5/8 - 3/8	74.53
	3-Bolt Light Angle Suspension					
7903	5063	8903	5 5/8	1 1/8	5/8 - 3/8	67.75
7903-1/4			5 5/8	1 1/8	.242 - 1/4	61.24
7904		8904	5 5/8	1 3/8	5/8 - 3/8	74.22

GROUND CLAMP

Connection is soldered to the cable sheath and mechanically clamped to messenger wire. Bolt can be removed so clamp can be dropped over messenger. 1 3/4" x 1 1/8" steel, hot galvanized.



Chance	Cat. No.	Oliver	Hubbard	Lgth. In.	Wt. Lbs. Per 100	Per 100
7956	5101	8956		1 3/4	61	\$50.33

FLEXIBLE GROUND WIRE CLAMPS



Hot galvanized steel. Has two 1/2" x 1 5/8" clamp bolts and 5/8" diameter U-bolt which fits bayonets with 1 7/8" hole spacings. 3 1/2" long.

Chance	Cat. No.	Oliver	Hubbard	Bayonet Hole Spacing In.	Wt. Lbs. Per 100	Per 100
5460				1 7/8	172	\$242.91

GROUND WIRE CLAMPS

The J Type, Belcher Clamp for bayonets provides a secure fastening for the ground wire and will not injure it in any way, as the wire comes in contact with only the rounded surfaces of the clamp. Economically installed, as use of temporary snatch-blocks is entirely avoided, the ground wire being strung through the clamps for several spans at a time and the clamps tightened after pulling up.

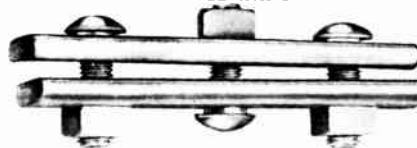


The U Type Belcher Clamp is used for clamping overhead ground wires to steel towers and has the same advantages as those of the J Type.

Holding power equivalent to the breaking strength of a 3/8-inch steel strand is attained through the use of two clamps on each wire. This clamp will accommodate strands with diameters as large as 1/2 inch.

Chance	Cat. No.	Oliver	Hubbard	Bayonet Hole Spacing In.	Wt. Lbs. Per 100	Per 100
5450	1300			1 1/8	48	\$43.50

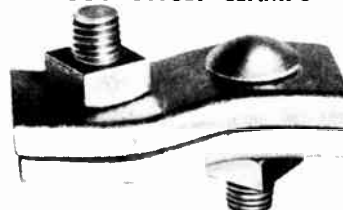
GUY CLAMPS



Steel, galvanized. High carbon steel bolts prevent elongation and eliminate stripping. All sizes with 3 or more bolts shipped with bolts reversed.

Chance	Cat. No.	Oliver	Hubbard	No. of Bolts	Lgth. In.	Wdth. In.	Per 100
6461	9004	7461		3	6	1 3/4	\$90.65
	Heavy Type — 5/8" Clamp Bolts — 1/16" to 1/2" Strand Size						
6447	8990	7447		1	1 1/8	1 5/8	27.72
6450	9002	7450		3	6	1 1/8	79.14
	Medium Type — 1/2" Clamp Bolts — 1/4" to 5/8" Strand Size						

GUY OFFSET CLAMPS



Two-bolt with curved clamping members which provide a more positive hold on the guy strand. Hot dip galvanized.

Chance	Cat. No.	Oliver	Hubbard	Bolt Dia. In.	Lgth. In.	Wdth. In.	Per 100
6409	9056	74702		1/2	3 1/4	1 1/2	\$56.36
6410	9057	74704		5/8	4	1 5/8	73.96

DEAD-ENDING CLEVIS



Used for anchoring strain or suspension insulators to the side of a cross arm or building. All have 5/8" cotter bolt except 456 which has a 3/4" machine bolt. 5/8" throat clearance.

Chance	Cat. No.	Oliver	Hubbard	Extension In.	Mtg. Hole Dia.	Steel Size	Per 100
455	4200	555		3 1/2	1 1/8	1 1/8 x 1 1/2	\$ 50.78
456	4202			3 7/8	1 1/8	1 1/8 x 2 1/2	130.06
493				4	1 1/8 Sq.	1/4 x 2	107.94

PRESSED STEEL CHANNEL CLEVIS



Made of 1" x 1/2" x 1/8" Pressed steel channel. Mounting hole size, 1 1/8" square. 5/8" cotter bolt.

Chance	Cat. No.	Oliver	Hubbard	Extension to Center of Ins. In.	Clevis Opening In.	Per 100
*468	*4834	*568		4	3 1/4	\$50.98

No. 0341 TYPE INSULATED CLEVIS



Made of 1 1/8" x 1 1/2" flat steel. 1/2" cotter bolt. 1 1/8" x 3/4" oval mounting hole.

Chance	Cat. No.	Oliver	Hubbard	Extension to Center of Ins. In.	Clevis Opening In.	Per 100
*0341	4410	1341		4 1/8	2 3/8	\$38.87

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POLE LINE HARDWARE

GROUND RODS



Made from high carbon open-hearth steel with a sharp point for driving.

Chance	Cat. No. Oliver	Hubbard	Dia. In.	Lgth. Ft.	Wt. Lbs. Per 100	Per 100
Standard						
8555	9115	----	3/8	5	190	\$ 53.13
8568	9218	----	1/2	8	534	113.72
8578	9318	9578	5/8	8	800	177.67
8580	9320	----	5/8	10	1000	195.00
8618	9328	9618	3/4	8	1200	258.36
8620	9330	9620	3/4	10	1500	317.40
Standard With Wire						
8521	19105	9503	3/8	5	190	93.70
8508	19208	----	1/2	8	534	153.75
8518	----	----	5/8	8	800	201.25
8520	----	----	3/4	10	1000	235.75

LAG SCREWS



Made in two types — fetter drive and gimlet point. Fetter drive thread is furnished unless otherwise specified. Any size lag screw can be furnished.

Chance	Cat. No. Oliver	Hubbard	Dia. In.	Lgth. In.	Per 100
Gimlet Point Type					
8722 1/2 GP	5502 1/2	9722 1/2	1/4	2 1/2	\$ 4.93
8724 GP	5504	9724	1/4	4	5.97
8732 1/2 GP	5512 1/2	9732 1/2	5/16	2 1/2	4.93
8732 GP	5512	9732	1/8	2	4.16
8733 GP	5513	9733	5/16	3	4.98
Pilot-Point Fetter Drive					
508744	5604	9744	3/8	4	7.33
508754	5704	9754	1/2	4	9.44
508755	5705	9755	1/2	5	11.09
508765	5805	9765	5/8	5	20.21

POLE SEATS



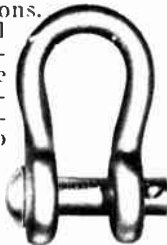
The frames and braces are of 1 x 1/2-inch channel steel. The wood seats are of 1 3/8-inch cypress boiled in creosote. The 3/8-inch-square bars of the all-steel seats are riveted to the frame in such a manner as to leave no projecting ends.

Chance	Cat. No. Oliver	Hubbard	Dimens. In.		Per 100
			Channel Steel	Seat Size	
PS655	4512	----	1 x 1/2 x 1/8	12 x 13 3/8	\$933.00

ANCHOR SHACKLE

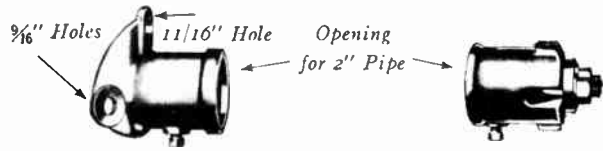
Forged steel, hot galvanized. 5/8" clevis bolt and brass cotter key. Made to specifications.

Used principally on light rural work for attaching suspension insulator units to the pole. The shackle is slipped through the eye of a standard oval eye bolt and final installation made with the insulator cap fitting.



Chance	Cat. No. Oliver	Hubbard	Dimens. In.			Per 100
			Center of Bolt to Eye Curve	Dia. Steel	Clevis Opening	
5801	1435	6801	2 3/2	1/2	3/4	\$ 76.12
5818	1437	6816	3	1/2	1 1/8	142.70

SIDEWALK GUY FITTINGS



No. 1365

No. 1366

For use along sidewalks or near buildings where there is insufficient space for standard guying.

Chance	Cat. No. Oliver	Hubbard	Pipe Inches	Wt. Lbs. Per 100	Per 100
Pole Plate					
0501	1365	1501	2	355	\$344.86
End Fitting With Clamp					
0502	1366	1502	2	495	445.67

**SERVING SLEEVES
Hot Galvanized**

For serving the ends of guy strand which project beyond the guy clamp. Installation is quick and easy. The slot is placed over the guy strand then turned toward the guy clamp, a few light taps of a wrench or pliers completing the job.



Chance	Cat. No. Oliver	Hubbard	Strand Size Inches	O.A. Lgth. Inches	Wt. Lbs. Per 100	Per 100
6451	8951	7451	3/8	1 1/4	2	\$ 8.47
6452	8952	7452	1/4	1 3/8	2.8	8.47
6453	8953	7453	5/16	1 1/2	5.9	8.47
6454	8954	7454	3/8	1 3/4	7.3	8.69
6455	8955	7455	7/16	2	12	12.18
6456	8956	7456	1/2	2 1/4	22	12.18

PIPE SPACER



Used with Pole Top Pin Brackets to provide greater rigidity.

Chance	Cat. No. Oliver	Hubbard	Lgth. In.	Pipe In. I.D.	Wt. Lbs. Per 100	Per 100
2237	3969	5674	1 1/2	3/4	16	\$19.34

STAPLES



Copperweld Cut Point (Fence) Staples

Cat. No.	Lgth.	Dimens. In. Distance Between Legs		Dia.	Wt. Lbs. Per 100	Per 100
6654	1 1/4	3/8	3/8	.114	7.5	\$9.98
6651	1 3/8	1/2	1/2	.162	16.1	2.19
6652	1 1/2	3/4	3/4	.162	17.2	2.34
6653	2	1/2	1/2	.162	22.7	3.03
6650	2	1/2	1/2	.162	22.7	3.11

West of the Rockies add 10% to Prices

POLE LINE HARDWARE



THIMBLEYE NUT

Designed for attachment to through bolts or threaded end of angle or straight thimbleye bolts for straight away head guys. Thimbleye grooves prevent kinking of strand. Drop forged, steel galvanized.

Cat. No.			Dia. Bolt	Eye Lgth.	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	In.	In.	Per 100	Per 100
6510	9440	7510	5/8	1 3/8	100	\$55.60
6511	9441	7511	3/4	1 3/8	98	55.60



ANGLE THIMBLEYE

Used for attaching to through bolt or threaded end of straight or angle thimbleye bolt for down guying. Has full rounded thimbleye for protection to guy strand. Drop forged, steel galvanized.

Cat. No.			Dimens. In.		Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	For Bolt Dia.	Mtg. Bolt Hole	Per 100	Per 100
0100	7550	1100	5/8	1 1/8	136	\$58.80
0101	7551	1101	3/4	1 1/8	132	58.80



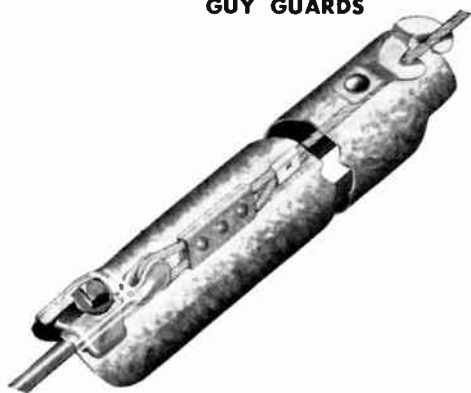
POLE GAINS

Used in place of a gain cut into pole. Set cross arm away from pole for drainage and air space. Pressed steel, hot galvanized. Hole diameter is 1 1/8".

Cat. No.			Dimens. In.		Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	Arm Size	Hole Dia.	Per 100	Per 100
4091	1801	---	3 1/4 x 4 1/4	1 1/8	256	\$125.02
4092	1802	---	3 1/2 x 4 1/2	1 1/8	268	125.02
4093	1803	---	3 3/4 x 4 3/4	1 1/8	285	125.02

Steel is 9-gauge.

GUY GUARDS



Cat. No.			Lgth. Feet	Gauge	Approx. Wt. Lbs. Per 100	Per 100
Half-Round						
714MB	---	---	7	16	1060	\$296.40
814MB	---	---	8	16	1140	321.00
807	707	---	7	18	885	227.76
808	808	67559	8	18	1000	308.60
Full-Round						
7180MB	1707	---	7	18	1200	394.50
8180MB	1808	7658	8	18	1330	452.00

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CABLE GUARDS AND STRAPS



No. 6538

Protect telephone and power lines in cases where circuits lead from underground to overhead. Guards are 14 Ga. steel, hot galvanized, formed into U-shape. Straps are made from flat steel shaped to fit guards. All items below are A.T.&T. Standard.

No. 6531

Chance	Cat. No. Oliver	Hubbard	Lgth. Feet	Inside Dia. In.	Wt. Lbs. Per 100	Per 100
Guards						
6531	---	7531	5	1 1/8	445	\$177.60
6531 1/2	4780	7531 1/2	8	1 1/8	710	230.47
6532	4782	---	5	2 3/8	785	197.08
6533	4783	7533	8	2 3/8	1250	348.67
6534	4784	---	5	3 3/8	1130	336.07
6535	4785	7535	8	3 3/8	1800	539.36

Chance	Cat. No. Oliver	Hubbard	Steel Size	Dimens. In. Hole	Wt. Lbs. Per 100	Per 100
Mounting Straps						
6538*	4787	7538	1/8 x 3/4	1 1/2	14	\$10.32
6539†	4788	7539	1/8 x 3/4	3/2	19	13.44
6540‡	4789	7540	3/16 x 1	1 1/2	63 1/2	41.36

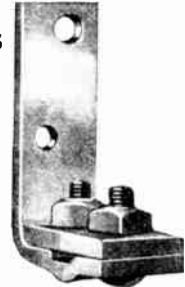
*Use with Guard No. 6531 1/2.

†Use with Guard No. 6533.

‡Use with Guard No. 6535.

UNIVERSAL MESSENGER HANGERS

The curved groove of this hanger allows it to be used at corners as well as on straight runs. The messenger is clamped securely by two 1/2-inch high carbon steel guy clamp bolts. Hanger is mounted on the pole by means of a 5/8 inch through-bolt and a 1/2-inch lag screw.



Chance	Cat. No. Oliver	Hubbard	Steel Size	Dimens. In. Ext. from Pole	Per 100
5/8" to 1 1/2" Strand Size					
7911	5055	8911	1/2 x 2	4 1/4	\$177.34
7912	5056	8912	3/8 x 1 3/4	3 3/4	150.25

DRIVE HOOK



Used for attaching wire clamps to cross arms, poles or buildings. Have a drive head and 1/8" x 2 1/2" fether drive thread. Made of 1/4" hot galvanized steel.

Chance	Cat. No. Oliver	Hubbard	Thread Dia.	Dimens. In. Thread Lgth.	O.A. Lgth.	Per 100
500316	9047	1316	1/8	2 1/2	5 1/2	\$17.51

SCREW HOOK

Used for wire clamp attachments on poles, arms, or buildings. Have gimlet point rolled threads.



Chance	Cat. No. Oliver	Hubbard	Thread Dia.	Dimens. In. Thread Lgth.	O.A. Lgth.	Per 100
0317	9045	---	3/8	2	4	11.85
9001	---	---	1/2	3	5 1/4	15.62

POLE LINE HARDWARE

STRAIGHT THIMBLEYE BOLT



Straight thimbleye bolts have full rounded, deep grooved head to protect guy strand from kinking, bending or spreading. Drop forged steel, galvanized. 5/8" and 3/4" have cone-type points and 6" of rolled thread. 1" bolts have cut threads and rounded points.

Chance	Cat. No.	Hubbard	Size Inches	Wt. Lbs. Per 100	Per 100
5508	6748	9058	5/8 x 8	128	\$ 59.25
5510	6750	9060	5/8 x 10	156	62.81
5512	6752	9062	5/8 x 12	172	65.66
5608	6848	-----	3/4 x 8	171	81.52
5610	6850	9080	3/4 x 10	202	89.51
5612	6852	9082	3/4 x 12	232	91.26
5692	6912	-----	1 x 12	458	193.50

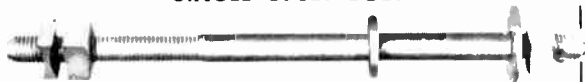
ANGLE THIMBLEYE BOLT



The 45° angle thimbleye bolt has full rounded, deep grooved head to protect guy strand from kinking, bending or spreading. Drop forged steel, galvanized. 3/4" bolts and under have 6" of rolled thread and cone-type points. 1" bolts have cut thread and rounded points.

Chance	Cat. No.	Hubbard	Size Inches	Wt. Lbs. Per 100	Per 100
5008	7650	9150	5/8 x 8	128	\$ 60.63
5010	7651	9151	5/8 x 10	156	63.33
5012	7652	9152	5/8 x 12	172	67.38
5108T	7750	9160	3/4 x 8	171	89.19
5110T	7751	9161	3/4 x 10	202	94.66
5112T	7752	9162	3/4 x 12	232	100.01

SINGLE UPSET BOLT



This type of insulator bolt is used for supporting neutral grounded wires for rural work. A rack type insulator is used on the collar end of the bolt and is installed in a horizontal position. 6" of thread at one end, 1 1/2" the other. 1 3/8" diameter collar. Collar to short end is 4 7/8". 5/8" diameter. Used with insulator 255 (not included).

Chance	Cat. No.	Hubbard	Thread	Length	Wt. Lbs. Per 100	Per 100
7741	7508	8741	6	12 3/4	152	\$66.40
7741 1/2	7509	8741 1/2	6	13 3/4	160	67.97
7742	7510	8742	6	14 3/4	170	69.85
7743	7512	8743	6	16 3/4	186	73.71

BACK TRUSS



Designed to support heavily loaded cross arms to prevent warpage and twisting under strain. Rods and fittings are galvanized steel.

Chance	Cat. No.	Hubbard	Dimens. Inches	Per 100
7234	-----	-----	6	\$1133.60
12558	-----	-----	10	1042.00

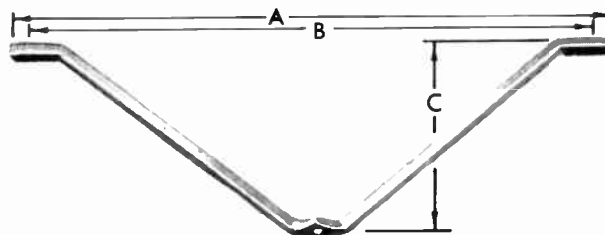
ALLEY ARM BRACES



Used for side arm construction. Furnished with lineman's steps. Type A is for side mounting, placing one leg of angle under cross arm. Type B is standard brace. Type C is for both side arm and under cross arm mounting.

Chance	Cat. No.	Hubbard	Lgth. Ft.	Angle Size Inches	Per 100
6979	5170	7979	5	1 3/4 x 1 3/4 x 1 3/8	\$404.95
6981	5171	-----	5	1 1/2 x 1 1/2 x 1 3/8	358.05
6984	5173	7984	7	1 3/4 x 1 3/4 x 1 3/8	480.93

ANGLE CROSS ARM BRACES



Braces are furnished with 1/8-inch holes for mounting on cross arm and 1/4-inch hole for pole mounting.

This brace can be furnished in any desired dimension A, B and C, for special requirements. State size of angle and holes desired.

Chance	Cat. No.	Hubbard	Dimens. In. A B C	Wt. Lbs. Per 100	Per 100
6940	5240	7940	45 42 12	540	\$265.22
6941	5242	7941	51 48 18	970	307.66
6942	5244	7942	63 60 18	1120	338.72

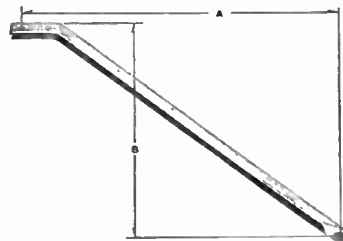
FLAT CROSS ARM BRACES



Braces, unless otherwise ordered, are punched at one end with 1/8-inch hole, other end with 7/8-inch hole. Holes are punched 1 inch from end to center of hole. Special braces of any length and width can be furnished upon request.

Chance	Cat. No.	Hubbard	Lgth. Inches	Wt. Lbs. Per 100	Per 100
D10394	5114	8021	14	100	\$31.94
7020	5120	8020	20	140	45.50
7028	5128	8028	28	200	60.10
7030	5130	8030	30	215	65.68
7128	5228	8128	28	240	60.10
7130	5230	8130	30	255	65.68

SIDE ARM BRACES
Hot Galvanized



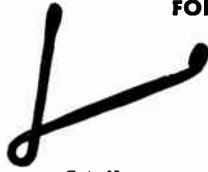
Used on transmission lines on side opposite the odd conductor. May be used on either right or left side.

Chance	Cat. No.	Hubbard	Dimens. In. A B	Angle Size	Holes	Wt. Lbs. Per 100	Per 100
6999	5267	7999	42 27	1 3/4" x 1 3/4" x 1 3/8"	1 1/8"	930	\$277.04

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POLE LINE HARDWARE

CORNER CONSTRUCTION BRACKETS FOR SMALL ANGLES

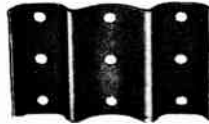


Hot galvanized steel 1½"x2" drop-forged eyes with the eyes of No. 5729 in the same plane, 12" extension.

Cat. No.		Dimens. Inches		Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	Steel Size	Eye Spacing		
5728	1467	¾ Rd.	12	396	\$290.85

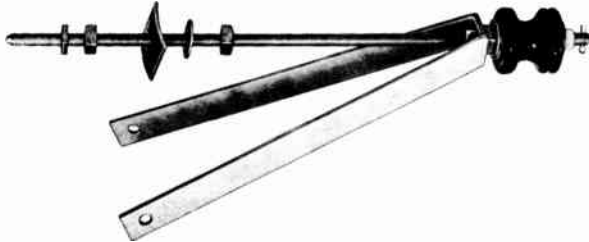
No. 0357 DOUBLE SUPPORT BRACKET

The No. 0357 Double Support Bracket is used in REA construction for double arming with pole top pins, insulated clevises and spool bolts. Formed hot from ¼" structural plate. Nine ½" dia. holes spaced 1½"-4"-4"-1½" on overall length and ¾"-2½"-2½"-¾" on overall width.



Cat. No.		Lgth.	O.A. Dimens. In. Width.	Dpth.	Per 100
Chance	Oliver Hubbard				
0357	2769	11½	6½	1½	\$203.53

NEUTRAL OFFSET BRACKET



Designed to support the neutral wire well away from the pole. Used where long spans are common and additional clearance or climbing space is required. ⅝" pin takes No. 5101 or comparable spool. Arm takes ⅝" through-bolt and 30° angle brace takes ⅝" lag or bolt.

Cat. No.		Dia. Inches		Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	Ins. Pin	Hole		
8771	2761	4473	12" Arm — 20" Brace	560	\$323.74
			⅝" 1½		

NEUTRAL BRACKET



Developed for use on rural lines for supporting neutral wires. Bracket is non-insulating. The line wire is installed in the top groove and tied around the knob. A ⅝-inch machine bolt is used for mounting. Malleable Iron.

Cat. No.		Wire Size In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard			
3470	2766	½ or Under	124	\$89.73

POLE TOP PIN BRACKET

Flat Steel Type



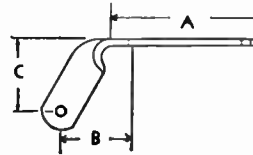
Fits against the pole just over the cross arm so the cross arm thru-bolt can be used to fasten the bottom hole of the pin. 3"x⅝" flat open hearth steel, hot galvanized. Mounting bolts are ¾" top, ⅝" bottom. 4" extension to center.

Cat. No.		Dimens. Inches		Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	Pin Body Dia.	Steel Size		
2037	3962	1½	⅝ x 3	920	\$396.10

TELEPHONE CORNER BRACKETS



Used where the pole lead attaches to the building at an angle or to carry leads around the corner of a building. No. 8225 or 8226 porcelain knobs are used with these brackets, but not included.



Cat. No.		Dimens. Inches			Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	A	B	C		

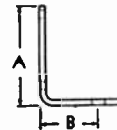
1½" Mtg. Holes — 1½" Ins. Holes —		1½" x ⅜" Steel Size		Wt. Lbs. Per 100	Per 100
8204	5087	9204	4¾ 2½			59	$52.78
8205			8½ 3⅞ 1½	82	36.93

¾" Mtg. Holes — 1½" Ins. Holes —		1½" x ⅜" Steel Size		Wt. Lbs. Per 100	Per 100
8206	5097	9206	4¾ 3⅞ 3½			60	52.78

TELEPHONE HOUSE BRACKET

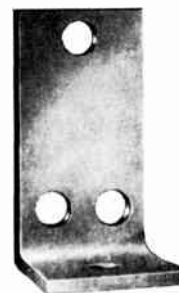


Used on buildings for dead ending telephone wires. No. 8225 porcelain knob insulator and No. 8232 bolt are used with bracket, but not included. Mounting holes are ⅜" and insulator bolt hole, ⅞", 1¼" x ⅜" hot galvanized steel.

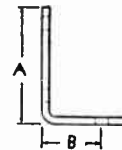


Cat. No.		Dimens. In.		Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	A	B		
8200	5085	9200	3⅞ 2	57	\$19.53

TELEPHONE POLE BRACKETS



For pole in taking off services or for short runs on poles. Has three holes ½" dia. for pole mounting and a ⅞" hole for knob bolt. 2" x ¼" hot galvanized steel. No. 8225 or No. 8226 porcelain knob insulators are generally used with these brackets, but are not included.

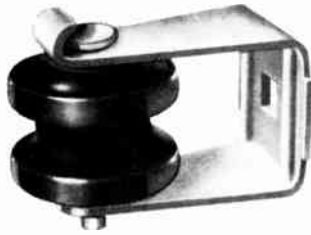


Cat. No.		Dimens. In.		Wt. Lbs. Per 100	Per 100
Chance	Oliver Hubbard	A	B		
8202	5083		4 2	92	\$25.78

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POLE LINE HARDWARE

DEADEND CLEAVES



Chance	Cat. No.	Oliver	Hubbard	Wt. Lbs. Per 100	Per 100
	Clevis With Sq. Hole For $\frac{3}{8}$ " Carriage Bolts, Complete With No. 5113 Insulator				
H1424				73	\$32.60
H14				41	22.83
5113				32	11.70

SWING TYPE CLEVIS

Made of $1\frac{1}{2}$ " x $\frac{3}{8}$ " steel formed for eye bolt mounting. $\frac{5}{8}$ " cotter bolt.



Chance	Cat. No.	Oliver	Hubbard	Extension to Center of Ins. In.	Clevis Opening In.	Per 100
	Less Insulator.			5	$3\frac{1}{4}$	\$60.02
0352	4438	1353				

CURVED BACK CLEVIS



Made of No. 9 ga. steel. Wide back, with $2\frac{3}{8}$ " radius. Resists line pull. $\frac{1}{8}$ " center hole. $\frac{1}{8}$ " side holes.

Chance	Cat. No.	Oliver	Hubbard	Extension to Center of Ins. In.	Clevis Opening In.	Per 100
	* Less Insulator.			4	$3\frac{1}{4}$	\$107.51
0327	4842	1327				

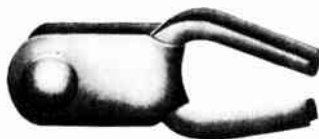
PRIMARY CLEVIS

Designed for through bolt or crossarm bolt mounting. Offset design offers increased flash-over resistance over the ordinary straight type of construction. Mounting bolts are not included. Made of $\frac{1}{4}$ " x $1\frac{1}{2}$ " flat steel.



Chance	Cat. No.	Oliver	Hubbard	Extension to Center of Ins. In.	Clevis Opening In.	Per 100
	* Less Insulator.			6	$4\frac{1}{4}$	\$72.31
0344	4413	1344				

THIMBLE CLEVIS



Combines a steel attachment clevis with a wire rope thimble. Thimble has 2" diameter wire groove for $\frac{3}{4}$ " strand or under, and swings free for flexibility.

Chance	Cat. No.	Oliver	Hubbard	Steel Gauge	Cotter Bolt Dia. In.	Wt. Lbs. Per 100	Per 100
573	4252	673		9	$\frac{5}{8}$	94	\$63.85

TWO-BASE GUY CLIPS



Made of drop-forged, hot galvanized steel. Clips on strand develop full conductor strength without distortion. Square-shoulder-type bolts fit into square holes to insure rigid clamp. Carriage bolt diameter, $\frac{1}{2}$ ".

Chance	Cat. No.	Oliver	Hubbard	Strand Size In.	Wt. Per Per 100	Per 100
4448	8879			$\frac{1}{8}$	57	\$50.50
4449	8880			$\frac{3}{8}$	80	59.39
4450	8881			$\frac{1}{2}$	90	69.35

WIRE ROPE CLIPS



Body of clip fits strand . . . presents only smooth-rounded surfaces.

Chance	Cat. No.	Oliver	Hubbard	Strand Size In.	Wt. Lbs. Per 100	Per 100
Drop-Forged Type — Hot Galvanized						
6480	9012			$\frac{1}{4}$	33	\$38.78
6481	9012	$\frac{1}{2}$		$\frac{5}{8}$	33	42.37
6482	9013			$\frac{3}{8}$	45	47.78
6483	9013	$\frac{1}{2}$		$\frac{7}{8}$	77	58.97
6484	9014			$\frac{1}{2}$	77	61.90
6485	9015			$\frac{5}{8}$	111	63.14

DROP FORGED BOLT EYES

Used extensively for attaching suspension insulators with clevis or hook to the cross arm. Also for dead ending and guying.

Bolt eye may be used on either the head or nut end of a machine bolt.



Chance	Cat. No.	Oliver	Hubbard	Dia. Bolt In.	Wt. Lbs. Per 100	Eye Lgth. In.	Per 100
Short Type							
6514	9470			$\frac{5}{8}$	83	$1\frac{3}{4}$	\$94.57
Long Type							
6517	4171	7517		$\frac{5}{8}$	95	3	65.50
6518	9472	7518		$\frac{3}{4}$	95	3	65.50

ROUND EYE NUTS



Most commonly used for dead-ending, back guying, and attaching pole head guy on the threaded end of cross arm bolt. Eye nuts are tapped for $\frac{1}{2}$ ", $\frac{3}{4}$ " and $\frac{1}{2}$ -inch bolts.

Chance	Cat. No.	Oliver	Hubbard	Dia. Bolt In.	Eye Lgth. In.	Wt. Lbs. Per 100	Per 100
6500	9450			$\frac{1}{2}$	$1\frac{1}{8}$	51	\$40.50
6502	9460	7502		$\frac{5}{8}$	$1\frac{3}{4}$	55	40.50
6503	9461	7503		$\frac{3}{4}$	$1\frac{3}{4}$	54	40.50

West of the Rockies add 10% to Prices

POLE LINE HARDWARE

HEAVY TYPE SECONDARY RACKS

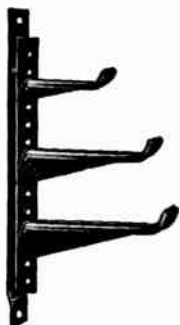


These heavy type secondary racks are designed for secondary network duty where relatively heavy loads may be expected. The back is heavy pressed steel, points are drop forged steel, riveted then electrically welded to the back. Insulator bolt is made of 5/8-inch high carbon steel. Center mounting holes are 1 1/8 x 1 3/8 inches and side mounting holes are 1 1/8 x 3/8 inch. Extension to center of bolt hole, 4 inches; to center of outer wire groove, 4 7/8 inches. Insulator No. 255 standard. Shipped with insulators unless otherwise specified; insulators not assembled.

Chance	Cat. No.	Oliver	Hubbard	Dimens. In.			Per 100
				No. of Wires	End Mtg. Hole Spacing	O.A. Back Lgth.	
Nonextended Back Type							
2838	8438	1738	3	16	21	\$301.00	
3838	8448	1748	4	24	29	390.00	
Extended Back Type							
2848	8338	1378	3	24	26	325.92	
3848	8348	1478	4	32	34	415.23	

Wire spacing is 8".

UNDERGROUND CABLE RACKS AND HOOKS



Used for interior cable and manhole work. Rack sections made in three lengths which can be combined into any desired length. Hooks have smooth, well rounded surfaces, 1 1/2 inches wide, which prevent injury to the cable sheath.

Racks and hooks are A. T. & T. Co. and W. U. T. Co. standard.

Cable Racks

Chance	Cat. No.	Oliver	Hubbard	No. of Hook Holes	Dimens. In.		Per 100
					O.A. Lgth.	Mtg. Slot Spacing	
1124	4708	2124	8	15	13 1/2	\$ 72.97	
1125	4714	2125	14	24	22 1/2	98.55	
1126	4718	2126	18	30	28 1/2	128.01	

1 1/2" hook hole spacing; 5/8" x 3/4" mounting slot.

Cable Rack Hooks

Chance	Cat. No.	Oliver	Hubbard	Extension from Face of Rack	Dimens. In.		Per 100
					Steel Size	Hook	
1131	4595	2131	4	1 1/2	1 1/8 x 1 1/8	\$45.71	
1132	4596	2132	7 1/2	1 1/2	1 1/8 x 1 1/8	62.91	
1133	4597	2133	10	1 1/2	1 1/8 x 1 1/8	76.13	

Cable Rack Insulators (White Glaze)

Chance	Cat. No.	Oliver	Hubbard	Radius	Dimens. In.		Per 100
					Lgth. Along Hook	Wdth.	
P-1120	4700	2120	1 1/2	3	2 3/4	\$33.50	

THREADED ANCHOR RODS



Thimbleye



Twineye

Threaded anchor rods can be used with all types of expanding anchors and all types of cone anchors. Rods are forged with either the new improved thimbleye, twineye or tripeye for maximum strand protection. Threads are rolled on rods to 3/4" diameter inclusive. Rods 1" and over have a cut thread. Drop forged steel, hot dip galvanized.

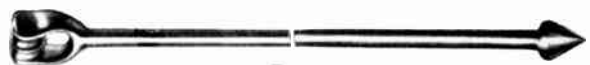
Conform to E.E.I. Specification TD-2. Length of rod indicated near head.

Chance	Cat. No.	Oliver	Hubbard	Size	Wt. Lbs. Per 100	Per 100
5307	8507	8407	1/2"	x 7'	470	\$129.20
*5317	8607	8417	5/8"	x 7'	750	208.81
5318	8608	8418	5/8"	x 8'	850	200.96
*5328	8708	8428	3/4"	x 8'	1240	320.61
5330	8710	8430	3/4"	x 10'	1540	348.91
*5340	8810	8440	1"	x 10'	2810	686.53
Twineye						
5347	8817	8517	5/8"	x 7'	765	181.58
5348	8818	8518	5/8"	x 8'	840	200.96
5360	8910	8530	3/4"	x 10'	1560	346.36
5358	8908	8528	3/4"	x 8'	1260	289.52
5370	9010	8540	1"	x 10'	2820	691.80

NEVER CREEP ANCHOR RODS



Thimbleye



Twineye

Never Creep rods are designed for use with the Chance Never-Creep Anchor. This combination of plate and rod makes the most efficient anchoring device known for normal conditions. Rods are drop forged with a thimbleye, twineye, or tripeye plus a Never Creep point which fits into the anchor socket and provides a spear head for each drawing. Rounded eye prevents the strand from flattening under tension and aids in slack pulling.

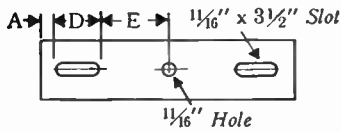
Conform to E.E.I. Specification TD-2. Length of rod indicated near head.

Chance	Cat. No.	Oliver	Hubbard	Size	Wt. Lbs. Per 100	Per 100
3307	8527	---	---	1/2" x 7'	470	\$149.11
3317	8627	---	---	5/8" x 7'	750	200.24
3318	8628	---	---	5/8" x 8'	850	220.18
3328	8728	---	---	3/4" x 8'	1240	328.44
3340	8830	---	---	1" x 10'	2820	705.06
Twineye						
3352	8837	---	---	5/8" x 7'	763	189.29
3353	---	---	---	5/8" x 8'	840	201.11
3358	8938	---	---	3/4" x 8'	1260	327.37
3370	9110	---	---	1" x 10'	2820	683.43
3372	---	---	---	1" x 12'	3445	782.37

West of the Rockies add 10% to Prices

POLE LINE HARDWARE

SUSPENSION PLATE



These plates are attached to the cross arms through the slots provided. Suspension attachment is made through the $\frac{1}{16}$ " hole at the center.

Cat. No.			Dimens. In.			Per 100
Chance	Oliver	Hubbard	A	D	E	
5819	1343	6819	$\frac{1}{4}$ " x 4"	Steel — 17" Long		\$139.10
			$\frac{5}{8}$	$3\frac{1}{2}$	$4\frac{3}{8}$	

2 HOLE LIFT PLATE

Curved steel plate with one hole for lag screw. Used to support thimbleye bolts. Galvanized steel.



Cat. No.			Size Holes In.		Plate Size In.	Per 100
Chance	Oliver	Hubbard	Top	Bottom	In.	
7887	6966	8887	$\frac{1}{8}$	$\frac{3}{4}$ x 1	$\frac{1}{8}$ x $2\frac{1}{2}$ x 7	\$32.57

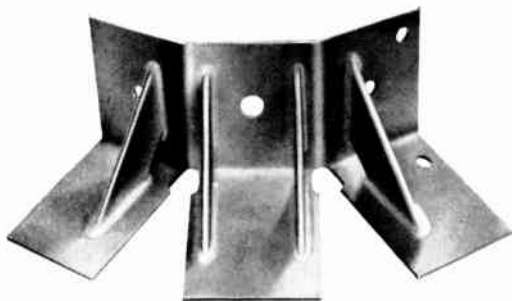


3 HOLE LIFT PLATE

Used with angle thimbleye bolt for supporting heavy loads. Upper hole for lag screw. Galvanized steel curved to fit pole.

Cat. No.			Size Holes In.		Plate Size In.	Per 100
Chance	Oliver	Hubbard	Top	Bottom	In.	
7897	6956	8897	$\frac{9}{16}$	$\frac{3}{4}$ x 1	$\frac{1}{4}$ x $2\frac{1}{2}$ x 7	\$33.25
7898	6957	8898	$\frac{9}{16}$	$\frac{7}{8}$ x 1	$\frac{1}{4}$ x $2\frac{1}{2}$ x 7	43.16
7899	6958	8899	$\frac{9}{16}$	$1\frac{1}{8}$ x $1\frac{3}{8}$	$\frac{1}{8}$ x $2\frac{1}{2}$ x 7	57.55

POLE BEARING PLATES

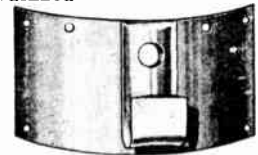


Mounted in pairs flush at the butt of each pole hold an H-frame structure in place of providing an additional 200 inches of bearing surface at each pole butt.

Hold right-of-way requirements to a minimum. Plates are placed on the pole before it is set. Rock fill and thorough tamping increases their holding power. Hole in upper corner of each plate is for attaching ground wire. Maximum mounting-bolt size for pole-attachment hole is $\frac{7}{8}$ "; side-attachment holes take $\frac{5}{8}$ " lag screws. Mounting bolts and screws are not included. Catalog number stands for one plate only. Galvanized finish.

Cat. No.			Steel Size In.	Wt. Lbs. Per 100	Per 100
6370G	-----	-----	$\frac{1}{4}$	180	\$750.03

STRAIN PLATES
Hot Galvanized



Comply with E.E.I. Specification TD-11. Used to prevent pole or moulding from being damaged by guy wire. $\frac{1}{8}$ " diameter nail holes at corners. Plates are formed to 5" radius.

Cat. No.			Type	Dimens. Inches	Per 100
6575	9050	7575	Standard	4x8x14 Ga.		$ 32.62
6577	9052	7577	Guy Hook	4x8x14 Ga.	106.68

STRAIGHT CORNER PIN
Low Voltage Type



Designed for angle and corner construction. Pin is forged from a single piece of new hot-rolled open hearth steel. The base rests evenly on the arm and prevents the pin from cutting into the wood, while the four lugs hold the pin from twisting on the arm. Includes two carriage bolts, two square nuts, two M.F. locknuts, and a $\frac{1}{8}$ " flat steel washer plate. Pin height above arm, $5\frac{3}{4}$ ". Washer plate size is $\frac{1}{8}$ " x $1\frac{1}{2}$ ".

Cat. No.			Crossarm Size In.	Car. Bolt Size In.	Per 100
14322	3487	24322	$3\frac{3}{4}$ x $4\frac{3}{4}$	$\frac{5}{8}$ x 7		$273.44
14322-1	-----	-----	$3\frac{3}{4}$ x $4\frac{3}{4}$	$\frac{5}{8}$ x 7	354.23

No. 14322 has 1" lead thread; No. 14322-1 has $1\frac{1}{8}$ " lead thread.

TRANSFORMER PIN



Forged from mild open-hearth steel. A popular pin for running leads from transformer arm to primary cross arm. Furnished with 1-inch lead thread and a No. 22 x 2-inch wood screw securely fastened to the base.

Cat. No.			Dimens. In.		Per 100
Chance	Oliver	Hubbard	Lgth. Above Shoulder	O. A. Lgth.	
026	-----	-----	5	7	\$62.31

WESTERN UNION PINS



Standard with the leading telephone and telegraph companies. Complete with best grade oak cobs thoroughly boiled in paraffine to exclude all moisture. Pins are made of high-carbon steel. Long shank type for wood arms and short shank type for transposition brackets. Also long cob type for transposition brackets. For insulators with 1" pin hole.

Cat. No.			Dimens. In.			Per 100
Chance	Oliver	Hubbard	Shank	Collar	Below Collar	
For Wood Crossarms — Long Shank						
7000	5000	8000	$\frac{1}{2}$	$1\frac{1}{4}$	5	\$39.91
7005	5017	8005	$\frac{5}{8}$	$1\frac{1}{8}$	$5\frac{7}{8}$	62.68
For Metal Crossarms & Transposition Brackets — Short Shank						
7010	5010	8009	$\frac{1}{2}$	$1\frac{1}{4}$	1	38.09
7015	5012	8015	$\frac{5}{8}$	$1\frac{3}{8}$	1	54.94

All are $4\frac{1}{4}$ " above collar.

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POLE LINE HARDWARE

TRANSFORMER LEAD BRACKET



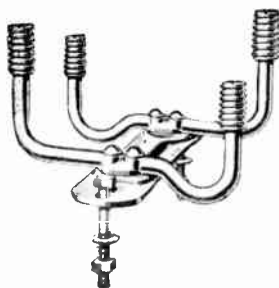
Offers an insulated support for secondary leads when clamped on to the bottom flange of transformers. Come equipped with a paint protector feature. Insulators are included where specified.

Oliver Cat. No.	Description	Bolt Size In.	Per 100
6056	With #2100 Ins. Assembled	1/2 x 6	\$117.34
6057	With #2300 Ins. Assembled	1/2 x 5	94.43

Hubbard Cat. No.	Description	Wt. Lbs. Per 100	Price Per 100
270	With #1606 Ins. Assembled	136	\$103.87
271	With #455 Ins. Assembled	208	129.07

Chance Cat. No.	Description	Size Ins. Bolt. In.	Price Per 100
9113	With #0606 Ins. Assembled	1/2 x 4	\$ -----
9113-1	Lead Bracket Only	1/2 x 4	84.25
9114	With #255 Ins. Assembled	1/2 x 5	117.34
9114-1	Lead Bracket Only	1/2 x 5	99.44

TRANSPOSITION POINT TYPE BRACKETS
Hot Galvanized



Left Hand Bracket
1" Lead Thread

An effective means of transposing wires for carrier or multi-channel frequencies on crossarms is provided by this style bracket. The slots permit mounting on crossarms for 10" or 12" spacing. Wire spacing is 6 3/4". Each bracket has two low insulator positions which are diagonally opposed, permitting a wire clearance of approximately 2" between wires on the cross over. The bracket is furnished with two 1/2"x6" mounting bolts.

Cat. No.	Description	Per 100
Oliver 4918	Right—Lead Thread	\$551.98
Hubbard 9272-LT	Right—Lead Thread	\$551.98
Oliver 4919	Left—Lead Thread	\$551.98
Hubbard 9273-LT	Left—Lead Thread	\$551.98



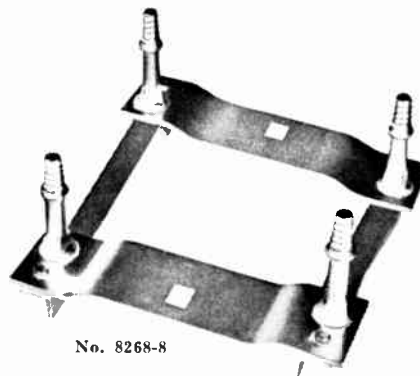
TRANSPOSITION BRACKETS

Standard Type

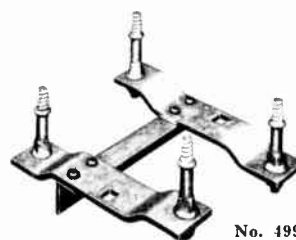
Bracket has a 3/8" wood screw hole and 1 1/8" square hole for 3/8" carriage bolt; fitted for pin having 1/2" diameter short shank. Pins and carriage bolts not included. For 3 1/4"x4 1/4" arm.

Cat. No.	Steel Size In.	Wt. Lbs. Per 100	Per 100
Chance 8251	1 1/4" x 5/8"	280	\$ 78.33
Oliver 5046	1 1/4" x 5/8"	280	\$ 78.33
Chance 8252	1 1/2" x 3/8"	375	131.13
Oliver 5047	1 1/2" x 3/8"	375	131.13

POINT TYPE TRANSPOSITION BRACKETS
Hot Galvanized



No. 8268-8



No. 4993

Furnished complete with four spindle threaded pins. Plastic bushings are used between pin and insulator — order separately — 1 1/8" square mounting holes. Install with two 5/8" carriage or machine bolts. Hot dip galvanized.

Cat. No.	Outside Spacing Inches	Wt. Lbs. Per 100	Per 100
Chance 8268-8	8x8	1160	\$421.06
Oliver 4993	8x8	1160	\$421.06
Hubbard 8268-10	10x10	1240	432.18
Oliver 4994	10x10	1240	432.18
Hubbard 8268-12	12x12	1280	440.38
Oliver 4995	12x12	1280	440.38

TRANSPOSITION BRACKETS
4-Inch Type



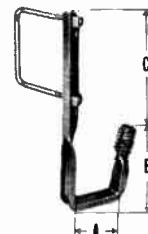
Provide a 5/8" transposition clearance using four No. 877 pins. Attachment is by means of a 5/8" carriage bolt — 1 1/8" square mounting hole. 1/4"x4" steel strip, hot dip galvanized.

Cat. No.	Outside Spacing Inches	Wt. Lbs. Per 100	Per 100
Chance 8776	4	436	\$133.69
Oliver -----	4	436	\$133.69
Hubbard -----	4	436	\$133.69

TRANSPOSITION BRACKETS

Single Point Type

Made of hot galvanized channel steel. Standard 1" diameter lead threads. Furnished with U-bolt for 3 1/4"x4 1/4" cross arms, unless otherwise specified. Brackets are punched with 2 holes and a slot for mounting on various size arms, horizontally or vertically. 1"x1/2"x 1/8" channel.

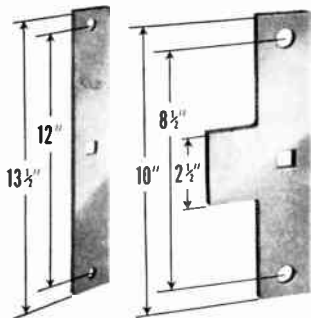


Cat. No.	Dimens. In.	Wt. Lbs. Per 100	Per 100
	A B C		
Chance 011	3 1/2 4 1/2 8	171	\$183.03
Oliver 4915	3 1/2 4 1/2 8	171	\$183.03
Hubbard 111	3 1/2 4 1/2 8	171	\$183.03

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POLE LINE HARDWARE

**TRANSPOSITION BRACKETS
Tandem Type**



No. 8277 No. 8278

Straight bracket No. 8277 is recommended for straight sections and corners where the "pull" is 15 feet or less. Made from 3/8" flat steel, it has 1 1/8" square arm mounting hole and 1/8" diameter pin mounting holes.

Offset bracket 8278 is used at corners where the "pull" is 15 to 50 ft. Arm mounting hole is 1 1/8" square and pin mounting

holes are 1/8" diameter. Tandem Brackets are used with transposition insulators. Mounting bolts and pins are not included.

Cat. No.	Steel	Pin Hole	Wt. Lbs.	Per 100		
Chance	Oliver	Hubbard	Size In.	Dia. In.	Per 100	
8277	5049	9277	3/8 x 2	1/8	280	\$70.44
8278	5059	---	1/2 Flat	1/8	300	94.50

**UNIVERSAL TRANSFORMER
MOUNTING BRACKETS**



The 15 Series are for mounting transformers with 12" EEI-NEMA Type A lugs on a single bracket and are shipped complete with 8B adapter plates. The 50 Series are for mounting transformers with 12" or 24" EEI-NEMA Type A and B lug spacings. The 100 Series are for mounting transformers having four lugs and are supplied with one R2B adapter plate for each segment on the brackets.

Mounting plate of all standard segments is 6" from pole. May be ordered with mounting plate 9" from pole. If extended segment is desired for all positions, add "E" in front of catalog number. If two of the three positions are to be extended, add suffix "969" to catalog number. Prices on application.

Cat. No.	Each
8B	\$1.62
R2B	1.99

Cat. No.	No. of Transformers	Wt. Lbs.	Each
Complete Assemblies			
3 Kva to 25 Kva			
115	1	26	\$11.60
215	2	39	18.75
315	3	52	24.60
3 Kva to 100 Kva			
150	1	43	18.70
250	2	55	30.75
350	3	69	39.60
3 Kva to 167 Kva			
1100	1	55 1/2	22.70
2100	2	85 1/2	38.55
3100	3	117 1/2	51.80

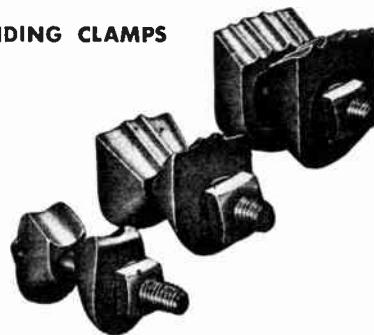
PLASTIC SPINDLE THREAD BUSHING



Used to cushion the insulators and serve as a bearing on which the insulator can rotate under heavy stresses. Used over spindle thread communication pins.

Cat. No.	For Ins.	Outside Thread	Per 100		
Chance	Oliver	Hubbard	Pin No.		
8231	061	9231	877, 878	1"	\$3.57

BONDING CLAMPS



Chance guy ground clamps or bonding clamps make a dependable mechanical and electrical pressure contact between guy strand and anchor rods for use when guys are part of a grounding system. Reduces radio trouble by keeping guy to ground contacts tight. Also used on angle thimbleye and thimbleye bolts on the poles to keep hardware to guy contacts tight. Also used to prevent excessive wear on guy strands and to protect galvanizing. Made to fit thimbleye, twineye or tripleye rods.

Cat. No.	Rod Size In.	Wt. Lbs.	Per 100
Chance	Oliver	Hubbard	Per 100
For Power Installed Screw Anchors			
G5067*	1/2, 5/8, 3/4	14	\$ 63.41
G5068*	1	23	67.12
G5069†	5/8, 3/4, 1	32	68.48
For Threaded and Never-Creep Anchors			
G5060* 9121	4244 1/2, 5/8	7	21.92
G5061† 9122	4245 5/8, 3/4, 1	14	35.38
G5063‡ 9124	4246 3/4, 1	19 1/4	49.85
G5073‡	1 1/4	33	52.50
For No-Wrench Screw Anchors			
G5065*	3/4, 1	12 1/2	115.30
G5063‡ 9124	4246 3/4, 1	19 1/4	49.85
G5073‡	1 1/4	33	52.50
For Swamp Screw Anchors			
G5066‡	1 1/4, 1 1/2, 2**	19 1/2	64.57

*Thimbleye.
†Twineye.
‡Tripleye.
**Pipe.

CROSSOVER CLAMPS



Used for joining two cable messengers when they cross each other at right angles.

Cat. No.	Strand Size In.	Wt. Lbs.	Per 100	
Chance	Oliver	Hubbard	Per 100	
7930	5070	---	156	\$86.26

West of the Rockies add 10% to Prices

POLE LINE HARDWARE

GUARD ARM HOOK

Guard Arm Hooks are used on guard arms as dead-ends for telephone services. They bolt through the arm.



Cat. No.			Dimens. In.		No. 9245	Per 100
Chance	Oliver	Hubbard	Steel Dia.	Lgth.	Eye Dia.	
8245	9036	9245	1/2	5 7/8	7/8	\$27.00

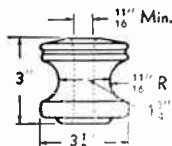
GUY HOOKS



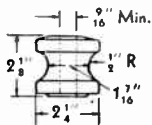
Used to keep guy wires from creeping down the pole. Made of half-oval steel, bent with the flat side to the pole to protect guy wire.

Cat. No.			Material Size In.	Hole Dia. In.	Per 100
Chance	Oliver	Hubbard			
5004	---	6004	1-Bolt Storm 1/2 x 1 1/2 x 4 1/8	1 1/8	\$48.71
6584	9041	7584	1-Bolt Standard 3/8 x 1 3/4 x 4	1 1/8	24.85

INSULATORS FOR CLEAVES AND FORK BOLTS



No. 255

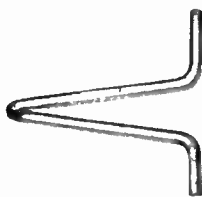


No. 0606

Made of high-quality porcelain to give long service, mechanical reliability, impact-resistance, and desired electrical characteristics.

Chance	Cat. No. Oliver	Hubbard	Color	Ultimate Strength Lbs.	Per 100
			Dry Process		
	255	2000	355 Brown	3000	\$21.89
	255W	2200	355W White	3000	21.89
	0606	2300	1606 Brown	2000	13.80
	0606W	2300W	---	2000	13.80

PULLING-IN IRONS



These Pulling-In Irons provide a strong and convenient attachment for the pulling-in blocks when installing or removing cables.

The irons are set into the brick or concrete walls of street vaults, opposite all duct entrances.

Chance	Cat. No. Oliver	Hubbard	Dimens. In. Steel Extension	Wt. Lbs. Per 100	Per 100
	8119	4579	9119 7/8 Rd. 9	610	\$154.00
	8120	4580	9120 7/8 Rd. 12	730	173.50

CONNECTING LINKS
Hot Galvanized

Used with Nos. 2453 and 2463 four-way pole bands for attaching suspension-type insulators and wood guy strain insulators.



Cat. No. (Per Pair)			Steel Size In.	Lgth. In. Center Hole to Center Hole	Per 100
Chance	Oliver	Hubbard			
9026	2286	---	1/4 x 3	7 1/2	\$130.66
8785	2285	7150	1/4 x 2	7 1/2	87.09

MANHOLE LADDERS

Rungs are 5/8" round steel, hot galvanized, 12" centers, passed through sides and riveted. Inside width, 12". Channel iron sides are 1 1/2" x 1 1/8" x 1 1/8" for all ladders, except 14 ft. length, which is 2 1/2" x 5/8" x 1 1/8".

Cat. No.			Lgth. Ft.	No. of Rungs	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard				
8111	4561	9111	6 1/2	6	2700	\$1350.46
8112	4562	9112	8	7	3365	1628.00
8113	4563	9113	10	9	4115	1928.00
8114	---	---	11	10	4540	2107.70
8115	---	---	12	11	4970	2299.75
8116	---	---	13	12	5400	2491.00

PAL NUTS



Single thread. Has powerful grip, will not loosen. Fits any American Class 2 thread.

Cat. No.			Bolt Size In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
3530	3031	4530	3/8	.4	\$1.06
3531	3032	4531	1/2	.9	1.37
3532	3033	4532	5/8	1.3	1.89

M-F LOCKNUTS



Cat. No.			Bolt Size In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
3510	3041	4510	3/8	1.2	\$1.87
3511	3042	4511	1/2	2.5	2.15
3512	3043	4512	5/8	4.4	3.01
3513	3044	4513	3/4	6.0	3.97

REGULAR SQUARE NUTS



Cat. No.			Bolt Size In.	Wt. Lbs. Per 100	Per 100
Chance	Oliver	Hubbard			
55083	6921	29355	1/2	8	\$3.90
55084	6922	29356	5/8	13	6.10
55085	6923	29357	3/4	19	9.10

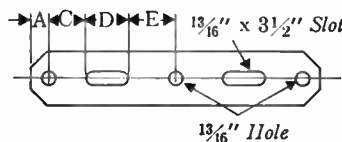
CROSS ARM REINFORCING PLATES

Prevent splitting and checking of cross arm at mounting hole. Open hearth steel, hot galvanized. 1/8" thick. Hole diameter, 1 1/8".



Cat. No.			Steel Thickness	Dimens. In. Cross-arm	Hole Dia.	Per 100
Chance	Oliver	Hubbard				
4045	3064	---	3/8	4x5	1 1/8	\$ 51.25
4047	---	5047	1/4	6x8	1 1/8	117.97

DOUBLE ARMING PLATES FOR CLEVIS CONNECTIONS



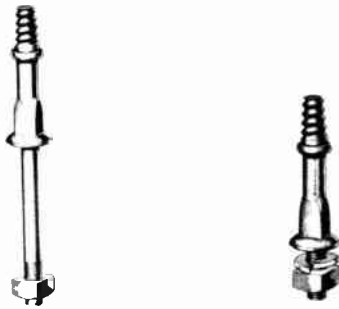
Used with forged steel insulator pins or suspension type insulators on wood or steel cross arms. For use with clevises having 3/4" or smaller bolts.

Cat. No.			Dimens. In. Steel	Long	Per 100
Chance	Oliver	Hubbard	A C D E		
5844	1344	6844	2 1 7/8 3 1/2 4 5/8	24"	\$360.00

West of the Rockies add 10% to Prices

POLE LINE HARDWARE

COMMUNICATIONS PINS
Spindle Thread Type

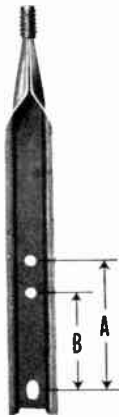


Have a spindle thread over which a No. 8231 plastic bushing is fitted to cushion the insulator. Bushings must be ordered separately. Hot dip galvanized steel. Nos. 876 and 877 are furnished with lock washer and square nut. No. 878 furnished with two 2" square washers, square nuts and M-F lock nut.

Chance	Cat. No.	Hubbard	Shank Dia. In.	Shank Lgth. In.	Wt. Lbs. Per 100	Per 100
876	4997	8059	1/2	1 1/2	75	\$51.90
877	4998	8061	5/8	1 1/2	83	46.20
878	4999	8062	5/8	6	154	66.10

Height above arm is 4 3/8".

POLE TOP PINS
Pressed Steel Type



Made of 9-gauge steel formed in a channel shape. All are 1 3/8" x 1 7/8". Pins with a welded hook can be furnished at slight extra cost. All holes are 1/8".

Chance	Cat. No.	Hubbard	Dims. In.			Per 100
			O. A. Lgth.	Hole A	Spacing B	
Two Mounting Holes — 1" Thread						
2162	3762	3162	15	5	....	\$ 97.09
Two Mounting Holes — 1 3/8" Thread						
2195	3771	3195	20	8	....	195.21
2196	3799	3196	24	8	....	215.67
Three Mounting Holes — 1" Thread						
2170	---	3170	18	8	5	108.20
2199	3787	3175	....	....	....	163.63

LEAD THREAD THIMBLE ADAPTERS

No. 4258 is made from 1" by 12 ga. flat steel. A heavy American Standard 5/8" nut welded at the bottom of the thimble to permit attachment over a 5/8" bolt.

Overall length, 5 1/4". Maximum bolt projection above arm, 3".



Chance	Cat. No.	Hubbard	Dims. In.			Per 100
			Mach. Screw Dia.	Max. Stud Lgth.	O. A. Lgth.	
4258	3256	5258	5/8	3	5 1/4	\$81.29

West of the Rockies add 10% to Prices

FORGED STEEL PINS
Lead Thread, Low Voltage Type

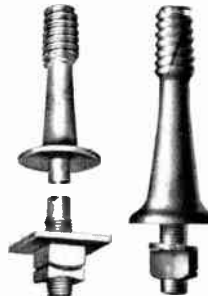


For supporting primary and secondary circuits as well as telephone and telegraph lines on wood and steel crossarms. Lead threads are uniform in size and shape and are positively locked against removal by a special process which establishes a perfect bond between the lead and zinc coating.

Chance	Cat. No.	Hubbard	Dims. In.			Per 100
			Shank Dia.	Ht. Above Arm	O.A. Lgth.	
For Wood Crossarms — Flat-Base Long-Shank Type						
2" Base Diameter						
881	3506	981	5/8	5	10 3/4	\$ 70.95
883	3510	983	5/8	6	12 1/2	81.05
884	3509	984	5/8	6	11 3/4	79.79
2 1/2" Base Diameter						
890	3516	990	3/4	6	12 1/2	113.21

FORGED STEEL PINS

Lead Thread Style, 1" Pin Hole



No. 4705 No. 4717

Long shank pins are furnished with a 3"x3"x 3/8" square washer, square nut, and lock nut. They can also be furnished with saddle washers, for roofed arms, by suffixing "S" to the catalog number. Long and short styles have 3/4" diameters; long style has 1 3/4" of thread.

TAPERED STYLE
Without Saddle Washer

Chance	Cat. No.	Hubbard	Dims. In.			Per 100
			Ht. Above Arm	Shank Lgth.	Base Dia.	
For Wood Crossarms — 1" Lead Thread						
4705	3175	5705	5	6 1/2	2 3/4	\$182.69
4706	3176	5706	6	6 1/2	2 3/4	186.66
For Wood Crossarms — 1 3/8" Lead Thread						
4717	3187	5717	7	7	3	165.76
4328	3418	5328	8	7	3	184.66
4330	3419	---	9	7	3 1/2	230.05
4332	3420	---	10	7	3 1/2	236.95

STRAIGHT STYLE
With Saddle Washer



For Wood Crossarms — 1 3/8" Lead Thread						
4717-S	13187	.....	7	7	3	198.93
4328-S	13416	.....	8	7	3	201.33
4330-S	13419	.....	9	7	3 1/2	258.31
4332-S	13420	.....	10	7	3 1/2	263.93

POLE LINE HARDWARE

WIREHOLDERS

Dry Insulator Process — Brown

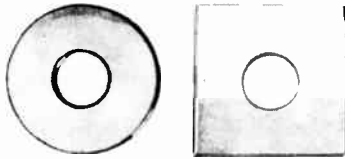
This single point wireholder offers all the advantages of strength and compactness. The wire hole is 1 inch diameter and will accommodate normal sized service wires. Screws are smooth, sharp pointed for easy starting and full threaded.



Hot galvanized steel and brown glazed porcelain insulator, dry process. Base is 1 1/8" in diameter and 7/8" high; height of insulator only is 3/8"; wire hole size is 7/8" x 1"; center of wire hole to base is 1 3/8".

Chance	Cat. No. Oliver	Hubbard	Per 100
3-11-44	2515	45525	\$ 44.70
With No. 22" x 2 1/4" Galv. Wood Screw			
3-11-45	2517	45526	47.20
With No. 22" x 3" Galv. Wood Screw			
3-11-66			69.00
With Pipe Clamp For 2" Pipe			
3-11-67			70.70
With Pipe Clamp For 2 1/2" Pipe			
-----	2529	67360	136.80
With Strap For 1 1/4" - 2 1/2" Pipe			

ROUND AND SQUARE WASHERS



Three styles: round, for carriage and machine bolts; square, for cross arm bolts; and large square, for anchor rods.

Chance	Cat. No. Oliver	Hubbard	Dimens. In. O.D. Washer Size	Hole Dia.	Bolt Dia.	Per 100
Round Washers						
6801	6930	7801	1 x 14 Ga.	7/16	3/8	\$.68
6802	6931	7802	1 1/4 x 14 Ga.	7/16	3/8	1.14
6803	6932	7803	1 3/8 x 12 Ga.	7/16	1/2	1.49
6805	6933	7805	1 3/4 x 10 Ga.	7/16	5/8	2.89
6808	6934	7808	2 x 9 Ga.	7/16	3/4	8.58
Square Washers						
6811	6940 1/2	7811	2 x 2 x 1/8	7/16	1/2	3.87
6812	6940	7812	2 x 2 x 1/8	7/16	5/8	3.87
6813	6941	7813	2 1/4 x 2 1/4 x 1/8	7/16	5/8	5.81
6814	6943	7814	2 1/4 x 2 1/4 x 1/8	7/16	3/4	5.81
6817	6945	7817	3 x 3 x 1/4	7/16	3/4	15.60
6818	6946	7818	4 x 4 x 1/8	7/16	3/4	21.90
6819	6946 1/2	7819	4 x 4 x 1/4	7/16	7/8	29.09
6819 1/2	6938	7819 1/2	4 x 4 x 1/2	7/16	3/4	58.46
6820	6948	7820	4 x 4 x 1/2 1 1/8	1	1	59.00

West of the Rockies add 10% to Prices

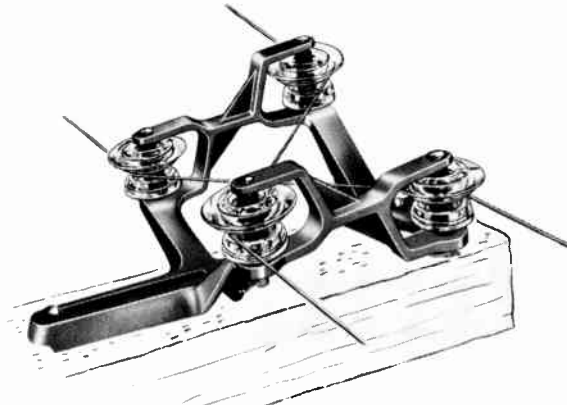
LARSON ROLLED DIAMOND POINT STAPLES

With Electro-Zinc Finish

Accurately made, with perfect points and parallel shanks. Drive straight and true without bending. The full arched heads give strength and allow for easy driving without splitting wood.

Cat. No.	Length Inches	Inside Spread Inches	Wire Size Inches	Per 100
2-54-2	1 1/4	1/8	.120	\$ 1.80
2-54-3	1 1/2	3/8	.148	2.05
2-54-5	2	1/2	.162	2.75
2-50-2	2	5/8	.162	2.90
2-50-3	2	3/4	.187	3.50
2-50-6	2 1/2	3/4	.187	4.35
2-50-9	1 1/2	1/2	.162	2.25
2-51-1	2	1 1/8	1/8	3.45
2-51-3	3	1 1/8	1/4	6.75
2-52-7	3	1 1/2	1/4	8.15
2-53-12	3 1/2	1 3/4	1/4	10.15

CASE ALUMINUM TRANSPOSITION BRACKETS



Cross Arm Type



Span Type

Cross arm type bracket for 8-inch wire spacing mounts on standard cross arms with two 1/2 x 6-inch machine bolts, with 2-inch square washers, order separately. The bracket is designed to mount on cross arm with pin spacing from 8 to 12 inches.

Combination cross arm and mid-span bracket is designed for 4-inch wire spacing.

Case span type bracket for 8-inch wire spacing is used between poles for open wire and Carrier circuits and long span rural construction. Regularly ordered with roller type glass insulators with rubber bushings, or with rubber insulators when specified. Insulators to be ordered separately.

High strength span bracket is for use on extremely long spans over river crossings, gorges, etc. It has a tension resistance of 4,000 lbs. per conductor.

Cat. No.	Description	Wt. Lbs. Std. per Pkg.	per 100 Each
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Cross Arm Type Brackets

SE-1648	Right-Hand; less Insulators	10 220	3.00
SE-1780	Left-Hand; less Insulators..	10 220	3.00

Combination Cross Arm and Mid-Span Bracket

SE-1640	Right-Hand; less Insulators	10 160	3.00
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Case Aluminum Span Bracket

SE-1611	Right-Hand; less Insulators	20 150	3.20
SE-1590	Left-Hand; less Insulators..	20 150	3.20

High-Strength Span Brackets

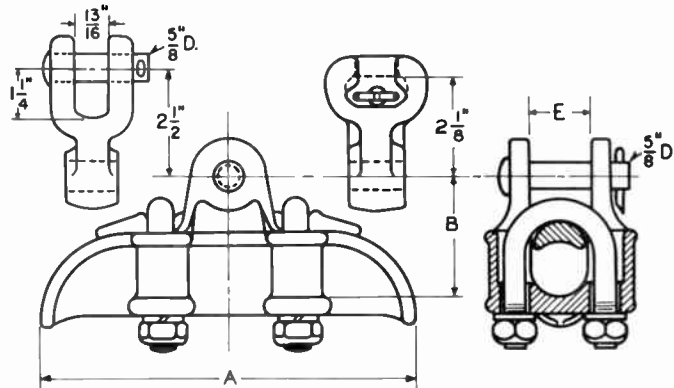
SE-1786	Right-Hand; less Insulators	10 325	5.75
SE-1795	Left-Hand; less Insulators..	10 325	5.75

Insulators for Above

1088	Glass Insulator with Rubber Bushing	40 45	.20
RC1	Rubber Insulator	200 35	.39

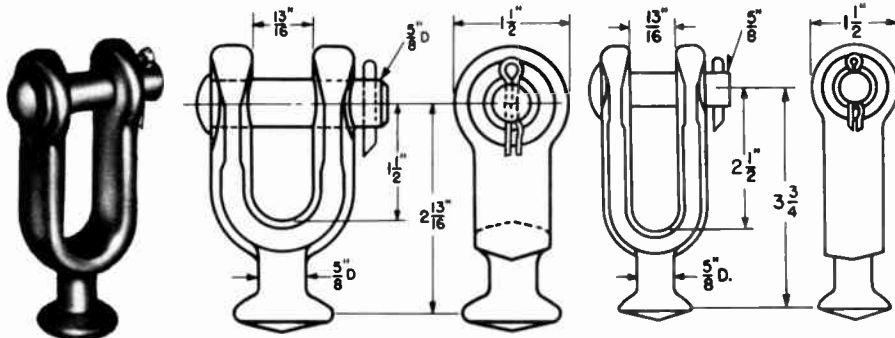
Note: Right Hand Bracket, left wire over right wire. Left Hand Bracket, Right wire over left.

OHIO BRASS SUSPENSION CLAMPS



Cat. No.	Type Connector	Conductor Diameter Inches		Clamp Dimensions, Inches			U-Bolts In.	Connector Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
		Min.	Max.	A	B	E					
Malleable Iron Suspension Clamps											
83044	None	.12	.46	5 3/4	2 1/8	.62	1/2	None	16,000	180	\$175.00
83045	Socket	.12	.46	5 3/4	2 1/8	.62	1/2	78721	16,000	280	264.00
83064	None	.20	.60	6 3/4	2 3/4	.60	1/2	None	16,000	295	180.00
83065	Socket	.20	.60	6 3/4	2 3/4	.60	1/2	78721	16,000	405	269.00
83074	None	.30	.70	7 1/8	2 1/2	.70	1/2	None	18,000	335	258.00
83075	Socket	.30	.70	7 1/8	2 3/4	.70	1/2	74593	18,000	435	347.00
83084	None	.40	.83	7 1/2	2 3/8	.83	1 1/8	None	18,000	410	264.00
83085	Socket	.40	.83	7 1/2	2 3/8	.83	1 1/8	83636	18,000	520	353.00
83104	None	.50	1.00	8	2 3/8	1.00	1 1/8	None	25,000	520	269.00
83105	Socket	.50	1.00	8	2 3/8	1.00	1 1/8	82891	25,000	635	358.00
83106	Clevis	.50	1.00	8	2 3/8	1.00	1 1/8	79085	25,000	655	358.00
83114	None	.75	1.15	8	2 7/16	1.15	5/8	None	25,000	620	303.00
83115	Socket	.75	1.15	8	2 7/16	1.15	5/8	82892	25,000	765	399.00
83116	Clevis	.75	1.15	8	2 7/16	1.15	5/8	76026	25,000	785	399.00
83124	None	.85	1.27	8 1/2	2 5/8	1.27	5/8	None	25,000	665	341.00
83125	Socket	.85	1.27	8 1/2	2 5/8	1.27	5/8	82892	25,000	805	452.00
83126	Clevis	.85	1.27	8 1/2	2 5/8	1.27	5/8	75384	25,000	860	452.00
83134	None	.90	1.37	8 3/4	2 3/4	1.37	5/8	None	25,000	750	374.00
83135	Socket	.90	1.37	8 3/4	2 3/4	1.37	5/8	82893	25,000	885	485.00
83136	Clevis	.90	1.37	8 3/4	2 3/4	1.37	5/8	78732	25,000	940	485.00
83144	None	1.00	1.45	9	2 7/8	1.48	5/8	None	25,000	775	386.00
83145	Socket	1.00	1.45	9	2 7/8	1.48	5/8	82893	25,000	910	497.00
83146	Clevis	1.00	1.45	9	2 7/8	1.48	5/8	79086	25,000	960	497.00
83164	None	1.10	1.60	10	3	1.60	5/8	None	25,000	855	446.00
83165	Socket	1.10	1.60	10	3	1.60	5/8	82894	25,000	1005	557.00
83166	Clevis	1.10	1.60	10	3	1.60	5/8	75711	25,000	1050	557.00
83184	None	1.25	1.80	10	3 1/4	1.80	5/8	None	25,000	1000	501.00
83185	Socket	1.25	1.80	10	3 1/4	1.80	5/8	82895	25,000	1150	612.00
83186	Clevis	1.25	1.80	10	3 1/4	1.80	5/8	75450	25,000	1190	612.00
83204	None	1.40	2.00	10 1/2	3 1/2	2.00	5/8	None	25,000	1060	584.00
83205	Socket	1.40	2.00	10 1/2	3 1/2	2.00	5/8	82896	25,000	1220	695.00
83206	Clevis	1.40	2.00	10 1/2	3 1/2	2.00	5/8	78845	25,000	1285	695.00
83224	None	1.75	2.25	11	3 3/4	2.25	5/8	None	25,000	1240	721.00
83225	Socket	1.75	2.25	11	3 3/4	2.25	5/8	82897	25,000	1420	832.00
83226	Clevis	1.75	2.25	11	3 3/4	2.25	5/8	76471	25,000	1450	832.00
83264	None	2.00	2.50	12	4 1/4	2.63	5/8	None	25,000	1510	797.00
83265	Socket	2.00	2.50	12	4 1/4	2.63	5/8	93702	25,000	1685	908.00
83266	Clevis	2.00	2.50	12	4 1/4	2.63	5/8	78652	25,000	1735	908.00

NOTE: Clamps will be furnished with either copper or aluminum liners when specified.



No. 70689

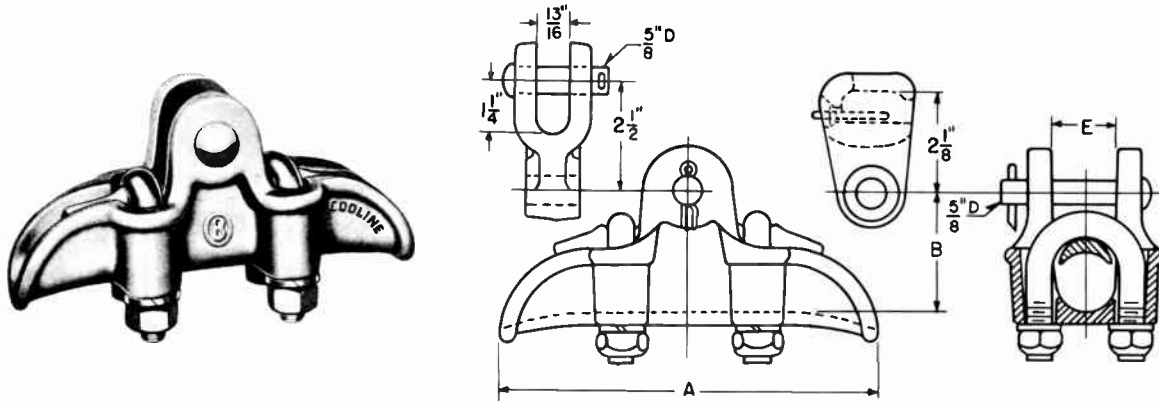
No. 70488

OHIO BRASS BALL CLEVISES

For attaching ball-and-socket type suspension insulators to supporting structures. Made of forged steel, hot-dip galvanized.

Cat. No.	Ultimate Strength Lbs.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
70689	30,000	50	115	\$106.00
70488	30,000	50	155	137.80

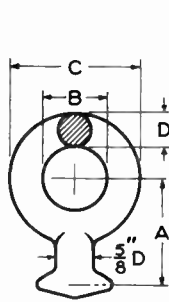
OHIO BRASS SUSPENSION CLAMPS



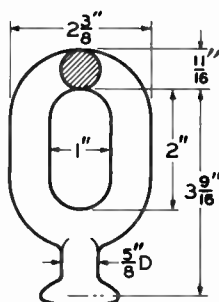
Cat. No.	Type Connector	Conductor Diameter Inches		Clamp Dimensions, Inches			U-Bolts In.	Connector Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100	
		Min.	Max.	A	B	E						
Aluminum Cooline® Suspension Clamps												
87074	None	.30	.75	7	2 1/8	.80	1/2	None	18,000	210	\$270.00	
87075	Socket	.30	.75	7	2 1/8	.80	1/2	74593	18,000	325	359.00	
87084	None	.40	.85	7 1/2	2 1/8	.90	1/2	None	18,000	255	270.00	
87085	Socket	.40	.85	7 1/2	2 1/8	.90	1/2	83636	18,000	370	359.00	
87104	None	.50	1.04	8	2 7/16	1.08	1/2	None	25,000	325	270.00	
87105	Socket	.50	1.04	8	2 7/16	1.08	1/2	82891	25,000	475	359.00	
87106	Clevis	.50	1.04	8	2 7/16	1.08	1/2	94575	25,000	480	359.00	
87114	None	.70	1.17	8	2 7/16	1.24	5/8	None	25,000	415	315.00	
87115	Socket	.70	1.17	8	2 7/16	1.24	5/8	82892	25,000	560	411.00	
87116	Clevis	.70	1.17	8	2 7/16	1.24	5/8	94575	25,000	565	411.00	
87124	None	.80	1.29	8 1/2	2 11/16	1.35	5/8	None	25,000	420	352.00	
87125	Socket	.80	1.29	8 1/2	2 11/16	1.35	5/8	82893	25,000	590	463.00	
87126	Clevis	.80	1.29	8 1/2	2 11/16	1.35	5/8	78732	25,000	605	463.00	
87134	None	.90	1.39	8 3/4	2 11/16	1.45	5/8	None	25,000	470	389.00	
87135	Socket	.90	1.39	8 3/4	2 11/16	1.45	5/8	82893	25,000	640	500.00	
87136	Clevis	.90	1.39	8 3/4	2 11/16	1.45	5/8	78732	25,000	655	500.00	
87144	None	1.00	1.47	9	2 7/8	1.57	5/8	None	25,000	510	389.00	
87145	Socket	1.00	1.47	9	2 7/8	1.57	5/8	82894	25,000	680	500.00	
87146	Clevis	1.00	1.47	9	2 7/8	1.57	5/8	75711	25,000	695	500.00	
87164	None	1.10	1.62	9 1/2	3 1/8	1.70	5/8	None	25,000	495	463.00	
87165	Socket	1.10	1.62	9 1/2	3 1/8	1.70	5/8	82894	25,000	675	574.00	
87166	Clevis	1.10	1.62	9 1/2	3 1/8	1.70	5/8	75450	25,000	695	574.00	
87184	None	1.25	1.82	10	3 1/4	1.90	5/8	None	25,000	605	519.00	
87185	Socket	1.25	1.82	10	3 1/4	1.90	5/8	82895	25,000	790	630.00	
87186	Clevis	1.25	1.82	10	3 1/4	1.90	5/8	75450	25,000	805	630.00	
87204	None	1.40	2.02	10 1/2	3 3/4	2.12	5/8	None	25,000	625	615.00	
87205	Socket	1.40	2.02	10 1/2	3 3/4	2.12	5/8	82896	25,000	820	726.00	
87206	Clevis	1.40	2.02	10 1/2	3 3/4	2.12	5/8	78845	25,000	845	726.00	
87224	None	1.75	2.25	11	3 11/16	2.35	5/8	None	25,000	650	766.00	
87225	Socket	1.75	2.25	11	3 11/16	2.35	5/8	82897	25,000	855	877.00	
87226	Clevis	1.75	2.25	11	3 11/16	2.35	5/8	76471	25,000	875	877.00	
87254	None	2.00	2.63	12	4 1/8	2.73	5/8	None	25,000	825	839.00	
87255	Socket	2.00	2.63	12	4 1/8	2.73	5/8	93702	25,000	1050	950.00	
87256	Clevis	2.00	2.63	12	4 1/8	2.73	5/8	78652	25,000	1075	950.00	
Bronze Cooline® Suspension Clamps												
86964	None	.20	.60	6 3/4	2 1/4	.60	1/2	None	16,000	325	478.00	
86965	Socket	.20	.60	6 3/4	2 1/4	.60	1/2	78721	16,000	435	555.00	
86984	None	.40	.83	7 1/2	2 3/8	.83	1/2	None	18,000	450	619.00	
86985	Socket	.40	.83	7 1/2	2 3/8	.83	1/2	83636	18,000	560	688.00	

OHIO BRASS BALL EYES

For attaching ball-and-socket type suspension insulators to supporting structures. Made of forged steel, hot-dip galvanized.



No. 13499



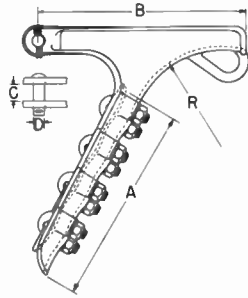
No. 70776

Cat. No.	Dimensions, Inches				Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
	A	B	C	D			
13499	1 1/8	1 1/4	2 3/8	1 1/8	20,000	62	\$95.40
70167	1 1/8	1 1/8	2 1/8	1 1/8	30,000	105	95.40
70776	.....	.....	.....	.....	30,000	94	116.60

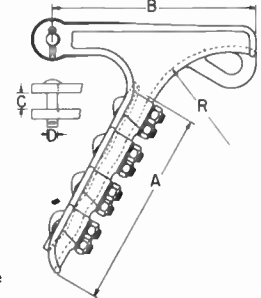
OHIO BRASS QUADRANT STRAIN CLAMPS



Hi-Lite Malleable Iron

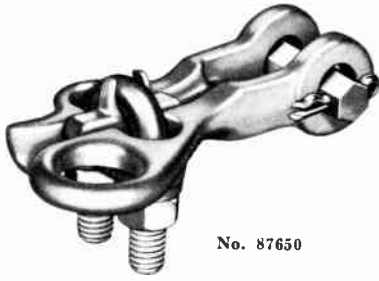


Aluminum Cooline

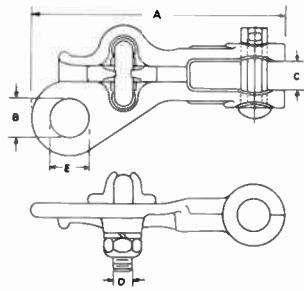


Cat. No.	Type Connector	Conductor Diameter Inches		Clamp Dimensions, Inches					U-Bolts No.	U-Bolts Size, In.	Connector Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
		Min.	Max.	A	B	C	D	R						
Malleable Iron Hi-Lite® Strain Clamps (Without Liner)														
83835	Socket	.20	.46	4 5/8	5 7/8	5/8	5/8	2 3/4	2	1/2	78721	15,000	415	\$349.00
83834	None	.20	.46	4 5/8	5 7/8	5/8	5/8	2 3/4	2	1/2	None	15,000	300	260.00
80435	Socket	.20	.55	7 7/8	8	1 1/8	5/8	3 3/4	3	1/2	74593	15,000	620	539.00
80437	None	.20	.55	7 7/8	8	1 1/8	5/8	3 3/4	3	1/2	None	15,000	505	450.00
80440	Socket	.30	.68	9 3/8	10 1/4	1 1/8	5/8	4 3/4	4	1/2	83636	20,000	970	761.00
80442	None	.30	.68	9 3/8	10 1/4	1 1/8	5/8	4 3/4	4	1/2	None	20,000	805	672.00
80640	Clevis	.30	.68	9 3/8	10 1/4	1 1/8	5/8	4 3/4	4	1/2	83832	20,000	1110	761.00
81750	Socket	.37	.63	10 1/8	11 1/8	1 1/8	3/4	4 3/4	4	1/2	93603	27,000	1320	804.00
81751	None	.37	.63	10 1/8	11 1/8	1 1/8	3/4	4 3/4	4	1/2	None	35,000	1140	715.00
80445	Socket	.48	.84	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	83636	25,000	1150	997.00
80447	None	.48	.84	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	None	25,000	990	908.00
80645	Clevis	.48	.84	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	84323	25,000	1105	997.00
80450	Socket	.50	.96	13	12 7/8	1	5/8	6 1/8	5	1/2	82891	25,000	1480	1200.00
80452	None	.50	.96	13	12 7/8	1	5/8	6 1/8	5	1/2	None	25,000	1330	1104.00
80650	Clevis	.50	.96	13	12 7/8	1	5/8	6 1/8	5	1/2	79085	25,000	1490	1200.00
80455	Socket	.71	1.10	15 3/4	14	1 3/8	3/4	7 3/8	5	5/8	93605	30,000	2420	1714.00
80457	Spool	.71	1.10	15 3/4	14	1 3/8	3/4	7 3/8	5	5/8	80701	30,000	2250	1714.00
80460	Socket	.75	1.28	19 3/4	15	1 3/8	3/4	8 1/8	6	5/8	93605	30,000	2850	2375.00
80462	Spool	.75	1.28	19 3/4	15	1 3/8	3/4	8 1/8	6	5/8	80707	35,000	2705	2375.00
Aluminum Cooline® Strain Clamps														
86536	Socket	.20	.57	7 7/8	8	1 1/8	5/8	3 3/4	3	1/2	74593	12,000	420	546.00
86537	None	.20	.57	7 7/8	8	1 1/8	5/8	3 3/4	3	1/2	None	12,000	305	457.00
91732	Clevis	.20	.57	7 7/8	8	1 1/8	5/8	3 3/4	3	1/2	83832	12,000	420	546.00
86540	Socket	.30	.72	9 3/8	10	1 1/8	5/8	4 3/4	4	1/2	83636	18,000	600	785.00
86541	Clevis	.30	.72	9 3/8	10	1 1/8	5/8	4 3/4	4	1/2	83832	18,000	605	785.00
86542	None	.30	.72	9 3/8	10	1 1/8	5/8	4 3/4	4	1/2	None	18,000	485	696.00
86546	Socket	.48	.86	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	82891	23,000	905	1006.00
86547	Clevis	.48	.86	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	79085	23,000	911	1006.00
86548	None	.48	.86	10 1/8	11 1/2	1 1/8	5/8	5 3/8	4	1/2	None	23,000	755	917.00
86550	Socket	.50	.98	13	12 1/2	1 1/8	5/8	6 1/8	5	1/2	82892	27,000	1085	1257.00
86551	Clevis	.50	.98	13	12 1/2	1 1/8	5/8	6 1/8	5	1/2	88341	27,000	1180	1257.00
86552	None	.50	.98	13	12 1/2	1 1/8	5/8	6 1/8	5	1/2	None	27,000	930	1161.00
86556	Socket	.71	1.12	15 3/4	13 3/4	1 3/8	1	7 3/8	5	5/8	93606	30,000	1540	1727.00
89097	Clevis	.71	1.12	15 3/4	13 3/4	1 3/8	1	7 3/8	5	5/8	87989	27,000	1565	1727.00
86557	None	.71	1.12	15 3/4	13 3/4	1 3/8	1	7 3/8	5	5/8	None	30,000	1325	1631.00
86561	Socket	.75	1.30	19 3/4	14 1/2	1 1/8	1	8 3/8	6	5/8	93607	30,000	1850	2392.00
89098	Clevis	.75	1.30	19 3/4	14 1/2	1 1/8	1	8 3/8	6	5/8	87989	27,000	1860	2392.00
86562	None	.75	1.30	19 3/4	14 1/2	1 1/8	1	8 3/8	6	5/8	None	35,000	1610	2281.00
87766	Socket	1.18	1.55	18 1/8	15	1 7/8	1	10	5	5/8	93607	30,000	1920	2320.00
89099	Clevis	1.18	1.55	18 1/8	15	1 7/8	1	10	5	5/8	87989	27,000	1930	2320.00
87767	None	1.18	1.55	18 1/8	15	1 7/8	1	10	5	5/8	None	35,000	1680	2209.00
92234	None	1.125	1.823	15 1/2	15	1 7/8	1	12	5	5/8	None	36,000	1875	3360.00
Bronze Cooline® Strain Clamps														
87835	Socket	.20	.46	4 5/8	5 7/8	1 1/8	5/8	2 3/4	2	1/2	78721	15,000	440	636.00
87834	None	.20	.46	4 5/8	5 7/8	1 1/8	5/8	2 3/4	2	1/2	None	15,000	330	567.00
Aluminum Cooline® L-W Strain Clamps														
86535	Socket	.20	.60	4 1/2	5 3/8	5/8	5/8	2 1/2	2	1/2	78721	7,000	230	301.00
86534	None	.20	.60	4 1/2	5 3/8	5/8	5/8	2 1/2	2	1/2	None	7,000	160	212.00
89236	Socket	.30	.47	4 5/8	6 1/8	3/4	5/8	3	2	1/2	74593	15,000	230	362.00
89237	None	.30	.47	4 5/8	6 1/8	3/4	5/8	3	2	1/2	None	15,000	115	273.00
89240	Socket	.35	.70	4 7/8	6 3/4	7/8	5/8	3 1/2	2	1/2	83636	15,000	430	460.00
89242	Clevis	.35	.70	4 7/8	6 3/4	7/8	5/8	3 1/2	2	1/2	83832	15,000	370	460.00
89241	None	.35	.70	4 7/8	6 3/4	7/8	5/8	3 1/2	2	1/2	None	15,000	250	371.00
89246	Socket	.46	.86	5 1/4	7 7/8	1 1/8	5/8	4 1/2	2	1/2	83636	15,000	470	499.00
89248	Clevis	.46	.86	5 1/4	7 7/8	1 1/8	5/8	4 1/2	2	1/2	87780	15,000	430	499.00
89247	None	.46	.86	5 1/4	7 7/8	1 1/8	5/8	4 1/2	2	1/2	None	15,000	290	410.00
89250	Socket	.50	1.0	6 1/8	9 3/8	1 1/4	5/8	5	2	1/2	82892	18,000	540	800.00
89252	Clevis	.50	1.0	6 1/8	9 3/8	1 1/4	5/8	5	2	1/2	75384	18,000	560	800.00
89251	None	.50	1.0	6 1/8	9 3/8	1 1/4	5/8	5	2	1/2	None	18,000	385	711.00
89261	Socket	.75	1.3	10 3/8	14	1 5/8	5/8	8	3	5/8	82894	25,000	920	1464.00
89263	Clevis	.75	1.3	10 3/8	14	1 5/8	5/8	8	3	5/8	79086	25,000	930	1464.00
89262	None	.75	1.3	10 3/8	14	1 5/8	5/8	8	3	5/8	None	25,000	740	1368.00

OHIO BRASS STRATLINE CLAMPS



No. 87650

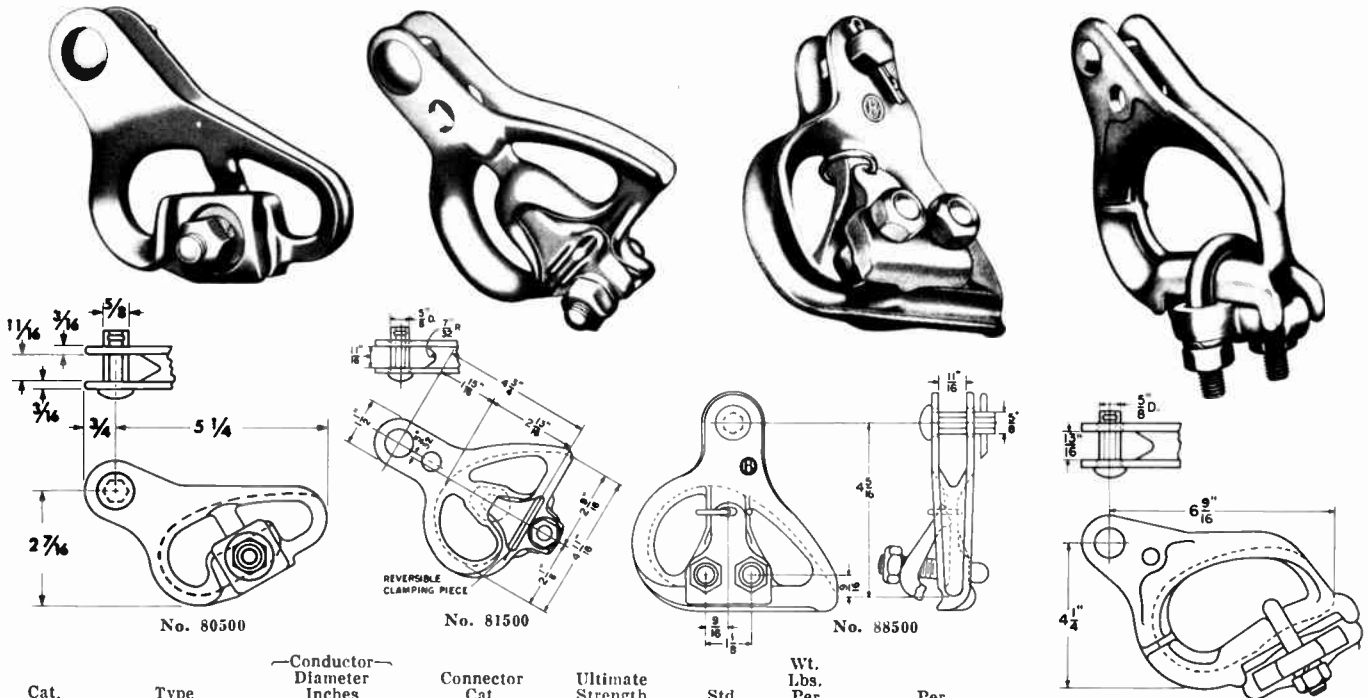


These clamps provide an inexpensive and effective means for dead-ending distribution primaries and stations buses. Easily covered for hot-line work, they can be detached from supporting insulators simply by removing cotter pin and rivet. Holding power meets the requirements of primary distribution service where larger sizes of aluminum cable are involved.

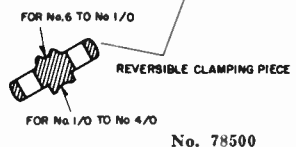
Cat. No.	Type Connector	Conductor Diameter Inches		Clamp Dimensions, Inches					No. U-Bolts	Connector Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
		Min.	Max.	A	B	C	D	E					
Aluminum Stratline Clamps													
87650	None	.15	.37	4 1/2	1	1 1/8	1/2	1	1	None	4,000	96	\$143.00
89650	None	.23	.51	8 3/8	1	3/4	1/2	1 3/8	2	None	7,000	160	188.00
89651	Socket	.23	.51	8 3/8	1	3/4	1/2	1 3/8	2	74593	7,000	275	277.00
87660	None	.30	.60	8 1/4	7/8	3/4	1/2	1 1/8	2	None	8,000	200	241.00
87661	Socket	.30	.60	8 1/4	7/8	3/4	1/2	1 1/8	2	74593	8,000	315	330.00
87670	None	.46	.86	10 3/8	1	7/8	1/2	1 1/2	2	None	8,000	242	253.00
87671	Socket	.46	.86	10 3/8	1	7/8	1/2	1 1/2	2	74593	8,000	357	342.00
87680	None	.65	1.25	11	1	3/4	1/2	1 5/8	2	None	8,000	350	406.00
87681	Socket	.65	1.25	11	1	3/4	1/2	1 5/8	2	74593	8,000	465	495.00
87690	None	.86	1.55	12 1/2	1	3/4	5/8	1 7/8	2	None	10,000	532	584.00
87691	Socket	.86	1.55	12 1/2	1	3/4	5/8	1 7/8	2	74593	10,000	647	673.00
Malleable Iron Stratline Clamps													
87652	None	.15	.37	4 1/2	1	1 1/8	1/2	1	1	None	4,000	146	131.00
88650	None	.15	.37	6 1/2	1	1 1/8	1/2	1 1/4	2	None	7,000	248	162.00
87662	None	.30	.60	8 1/4	1	3/4	1/2	1 1/4	2	None	8,000	320	233.00
87663	Socket	.30	.60	8 1/4	1	3/4	1/2	1 1/4	2	74593	8,000	435	322.00
87672	None	.46	.86	9 1/4	1	3/4	1/2	1 1/2	2	None	8,000	385	244.00
87673	Socket	.46	.86	9 1/4	1	3/4	1/2	1 1/2	2	74593	8,000	500	333.00
87682	None	.65	1.25	11	1	3/4	1/2	1 5/8	2	None	8,000	550	387.00
87683	Socket	.65	1.25	11	1	3/4	1/2	1 5/8	2	74593	8,000	665	476.00
87692	None	.86	1.55	12 1/2	1	3/4	5/8	1 7/8	2	None	10,000	790	457.00
87693	Socket	.86	1.55	12 1/2	1	3/4	5/8	1 7/8	2	74593	10,000	905	546.00

Note: Also available in bronze and with hotline keepers. Information upon request.

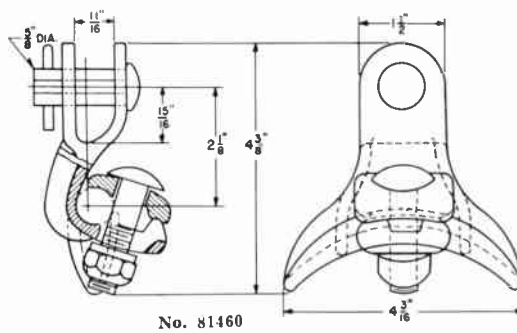
OHIO BRASS UNIVERSAL STRAIN CLAMPS



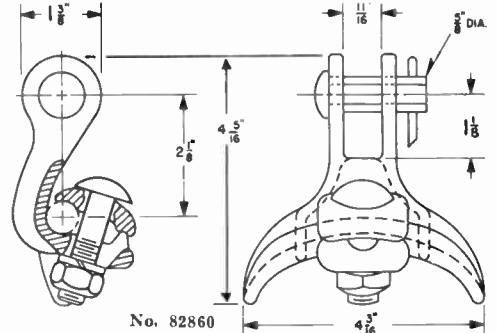
Cat. No.	Type Connector	Conductor Diameter Inches		Connector Cat. No.	Ultimate Strength Lbs.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
		Min.	Max.					
80500	None	.12	.38	None	8,000	25	130	\$127.00
81500	None	.16	.44	None	10,000	25	230	174.00
85351	Socket	.16	.44	74593	10,000	25	345	263.00
88500	None	.20	.50	None	10,000	25	240	174.00
89477	Socket	.20	.50	74593	10,000	25	355	263.00
78500	None	.16	.55	None	14,000	12	390	237.00
78501	Socket	.16	.55	83636	14,000	12	538	326.00



OHIO BRASS ANGLE CLAMPS



No. 81460

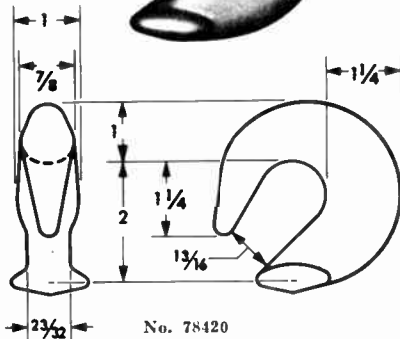


No. 82860

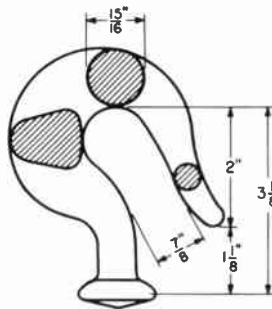
Angle clamps are suitable for turning angles from 10° to 120°. Keeper-piece is reversible for best conductor fit. Clamp body and keeper are made of malleable iron; bolt is steel. All parts are hot-dip galvanized.

Cat. No.	Conductor Diameter Inches		Ultimate Strength Lbs.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
	Min.	Max.				
81460	.162	.600	7,000	25	145	\$127.00
82860	.162	.600	7,000	25	145	119.00

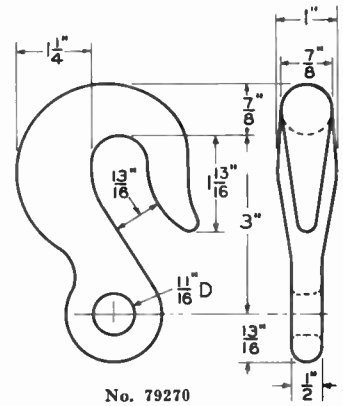
OHIO BRASS HOOKS



No. 78420



No. 85465



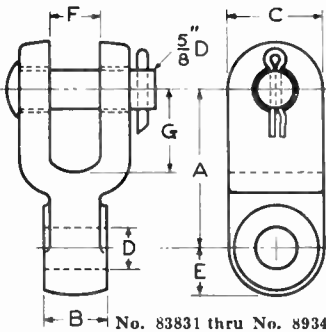
No. 79270

For attachment of suspension insulators to supporting structures. No. 78420 is self-locking, in that the interconnecting insulator cap, when installed, closes a major portion of the 1 3/4" opening and prevents disconnection from the tower as long as the hook is assembled with the insulator. Forged steel, hot-dip galvanized.

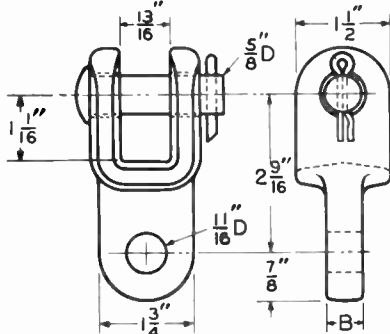
Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
78420	30,000	110	\$63.60
85465	30,000	140	84.80
79270	30,000	140	84.80

OHIO BRASS CLEVIS EYES

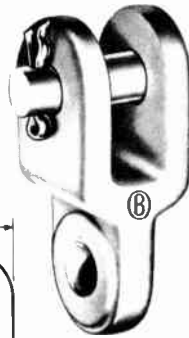
For connecting suspension and strain clamps to clevis type insulators or for similar applications. Made of malleable iron or drop-forged steel, hot-dip galvanized.



No. 83831 thru No. 89341

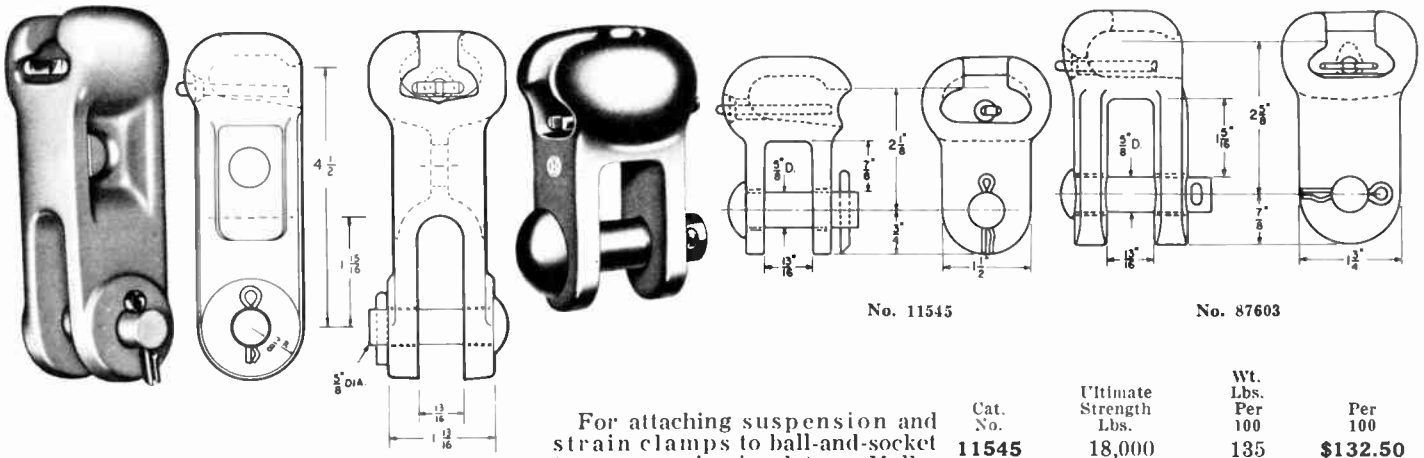


No. 83827 and No. 83828



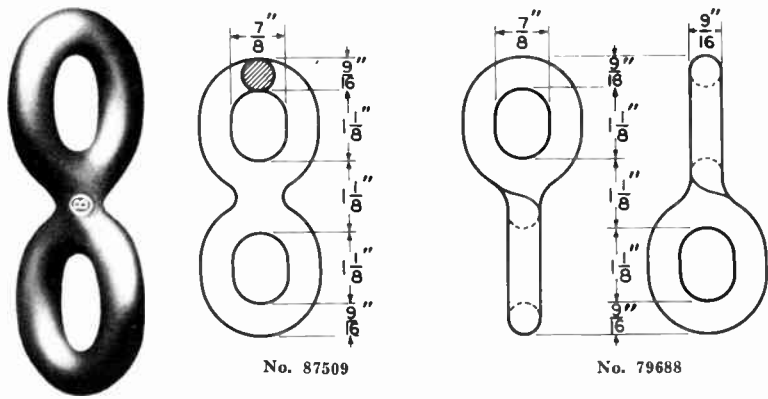
Cat. No.	Dimensions, Inches							Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
	A	B	C	D	E	F	G			
83831	2 1/2	1/2	1 3/4	1 1/8	7/8	1 1/8	1 1/8	16,000	115	\$84.80
83832	2 1/2	5/8	1 3/4	1 1/8	7/8	1 1/8	1 1/8	20,000	120	84.80
84323	2 3/4	5/8	1 5/8	1 1/8	3/4	1 1/8	1 1/8	35,000	140	84.80
87780	2 3/4	3/4	2	1 1/8	1	1 1/8	1 1/8	27,000	140	84.80
79085	2 5/8	7/8	1 1/2	1 1/8	7/8	1 1/8	1 1/8	25,000	156	106.00
76026	2 1/2	1	1 1/2	1 1/8	3/4	1 1/8	1 1/8	25,000	156	106.00
94575	2 1/2	1	1 3/4	1 1/8	7/8	1 1/8	1 1/8	25,000	156	106.00
87781	2 3/4	1	2	1 1/8	1	1 1/8	1 1/8	27,000	170	106.00
87782	2 3/4	1 1/8	2	1 1/8	1	1 1/8	1 1/8	27,000	175	106.00
75384	2 1/2	1 1/8	1 1/2	1 1/8	3/4	1 1/8	1 1/8	25,000	165	106.00
78732	2 1/2	1 1/4	1 3/4	1 1/8	3/4	1 1/8	1 1/4	25,000	182	106.00
79086	2 1/2	1 3/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	187	127.20
75711	2 1/2	1 1/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	182	127.20
75450	2 1/2	1 5/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	200	127.20
78845	2 1/2	1 7/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	220	127.20
76471	2 1/2	2 1/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	225	127.20
78652	2 1/2	2 1/2	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	250	127.20
87989	3 1/2	1 1/4	1 3/4	1 1/8	3/4	1 1/8	1 1/4	27,000	250	190.80
88199	3 1/2	1	1 3/4	1 1/8	3/4	1 1/8	1 1/4	27,000	240	190.80
88341	3 3/4	1 1/8	1 3/4	1 1/8	3/4	1 1/8	1 1/4	30,000	250	190.80
89341	2 1/2	5/8	1 5/8	1 1/8	3/4	1 1/8	1 1/8	25,000	120	84.80
83827	.....	1/2	.....	.....	.....	.....	.....	16,000	115	84.80
83828	.....	3/4	.....	.....	.....	.....	.....	18,000	120	84.80

OHIO BRASS SOCKET CLEVISSES



For attaching suspension and strain clamps to ball-and-socket type suspension insulators. Malleable iron, hot-dip galvanized.

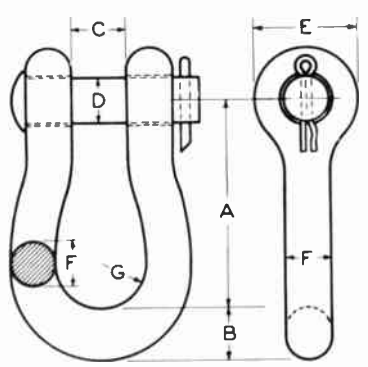
Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
11545	18,000	135	\$132.50
83002	30,000	320	196.10
87603	30,000	270	132.50
92802	30,000	312	232.60



OHIO BRASS FIGURE 8 LINKS

Made of drop-forged steel, hot-dip galvanized.

Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
87509	25,000	76	\$47.70
79688	25,000	76	68.90

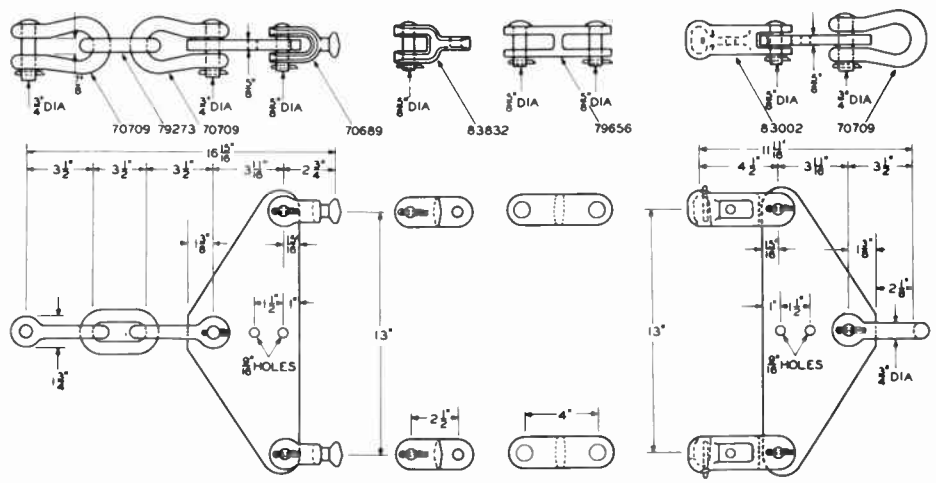


OHIO BRASS ANCHOR SHACKLES

Made of forged steel, hot-dip galvanized. Furnished with machine bolts, nuts and cotter pins in place of rivets when so specified.

Cat. No.	Dimensions, Inches							Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
	A	B	C	D	E	F	G			
13722	2 1/8	1/2	3/4	5/8	1 5/8	1/2	5/8	20,000	62	\$74.20
79608	2 1/8	1/2	3/4	5/8	1 3/8	1/2	5/8	25,000	105	84.80
79609	2 3/4	5/8	1 1/8	3/4	1 1/8	5/8	3/4	35,000	165	137.80
70709	3 1/2	7/8	7/8	3/4	1 3/4	3/4	3/4	40,000	220	190.80
79600	3 1/2	7/8	7/8	3/4	1 3/4	3/4	3/4	60,000	225	190.80
82539	5	3/4	7/8	3/4	1 7/8	3/4	1 1/8	50,000	270	233.20

OHIO BRASS MEDIUM DUTY STEEL STRAIN YOKES



Complete Sets With Fittings

Fittings shown attached for ball-and-socket connections — unattached for clevis. Other standard fittings can be furnished on request.

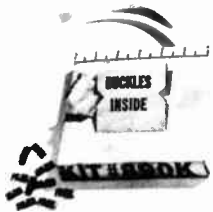
Cat. No.	Ultimate Strength	Wt. Lbs. Per 100 Sets	Per 100 Sets
For Ball-and-Socket Type Insulators			
79631	36,000	3800	\$2000.00
For Clevis Type Insulators			
79632	36,000	3800	2000.00

DIAMOND



LASHED CABLE SUPPORTS

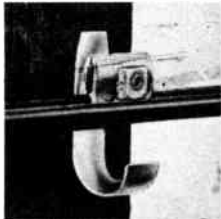
Cat. No.	Strap Lgth. In.	Max. Cable Size		No. Per Ctn.	Wt. Lba. 100	Price Per 100
		Dia. In.	Cir. In.			
L-891	10	3/4	2 5/8	500	5 1/2	\$ 7.88
L-892	16	1 1/8	3 5/8	500	8	9.64
L-893	22	2	6 1/8	300	10	11.39
L-894	28	2 5/8	8 1/8	300	13	13.87
L-895	34	3 1/8	10	300	15 1/2	15.70
L-896	50	5	15 1/8	200	22 1/2	20.22
L-897	64	6 1/2	20 1/2	200	28 1/2	24.09



LASHED CABLE SUPPORT KITS

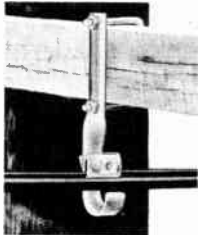
Kit contains 100 feet of stainless steel strap and 75 buckles, packaged in self-contained dispenser. 10 kits per carton. No. 890K Kit, each \$3.95

TANGENT SUPPORT FOR MULTI-PAIR DISTRIBUTION WIRE



Pole Mounted
For 0.109" and 0.134" messenger wire sizes and up to 18 pair-19 gauge equivalent size. Total angle of tangent, 0° to 35°. 1/2" thru-bolt (not furnished).

No. T-960 Tangent Supportper 100 \$44.40



Cross-Arm Mounted
For 0.109" and 0.134" messenger wire sizes and up to 18 pair-19 gauge equivalent size. Total angle of tangent, 0° to 35°. All bolting furnished. No. T-965 Tangent Supportper 100 \$154.67

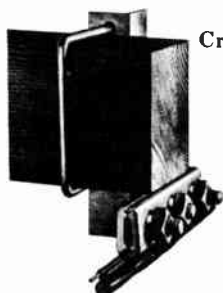
SUPPORT CLAMPS FOR FIGURE-8 DISTRIBUTION WIRE

Pole Mounted



Dual-purpose clamp for both .109" and .134" messenger wire. For use with 1/2" or 5/8" thru bolts (not furnished).

Wt. per 100, 80 lbs.
Cat. No. No. Per Carton Price Per 100
T961-M 25 \$122.68



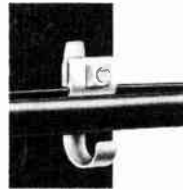
Cross-Arm Mounted

Dual-purpose clamp for both .109" and .134" messenger wire. Shipped assembled.

Wt. per 100, 225 lbs.
Cat. No. No. Per Carton Price Per 100
T966-M 10 \$250.80

TANGENT SUPPORT FOR AERIAL CABLE

Pole Mounted



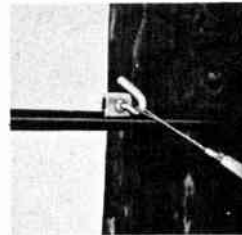
No. T-950 (0° to 15°) No. T-950-R (0° to 30°)
For 1/4" and .148" strand messenger cable and up to 200 pair-22 gauge equivalent size. Weight per 100, 80 lbs.

3/8" thru-bolt (not furnished).

Cat. No.	No. Per Carton	Price Per 100	Cat. No.	No. Per Carton	Price Per 100
T-950	25	\$67.33	T-950-R	10	\$72.67

*Total angle of tangent.

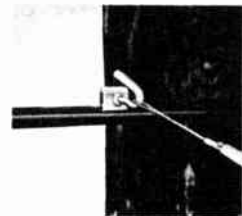
SPAN CLAMP FOR MULTI-PAIR DISTRIBUTION WIRE



For 0.109" and 0.134" messenger wire sizes. Weight per 100, 35 lbs.

Cat. No.	No. Per Carton	Price Per 100
T-980	10	\$44.93

SPAN CLAMP FOR AERIAL CABLE



For 1/4" and .148" strand messenger.

Weight per 100, 40 lbs.

Cat. No.	No. Per Carton	Price Per 100
T-985	10	\$57.48

CONDUIT RODS



No. 850 and 851

Have quick-acting automatic malleable iron couplings.

Cat. No.	Length Feet	Dia., In.		Wt. Lbs. Each	Price Each
		Rod	Wheel		
850	3	1	1 1/2	1 1/2	\$4.08
851	4	1	1 1/2	1 3/4	4.32
852	3	1	None	1 1/4	2.99
853	4	1	None	1 1/2	3.02



SCREW DUCT RODS

Made with round hickory sticks with aluminum couplings.

Cat. No.	Length Feet	Rod Dia. Inches	Wt. Lbs. Each	Price Each
855	3	7/8	1 1/4	\$4.28
856	4	7/8	1 1/2	4.71

DIAMOND



DRIVE RINGS

Cat. No.	Eye Size In.	Lgth. In.	No. Per Box	No. Per Ctn.	Wt. Lbs. Per 100	Per 100
801	1/2	2 1/8	50	2500	1 7/8	\$1.53
804	5/8	2 1/4	25	1000	3 1/4	2.33
805	7/8	2 1/8	25	500	6 3/8	3.47
807	1 1/4	2 1/8	25	500	10	5.20
801L*	1/2L	2 7/8	50	2500	2	1.67
804L*	5/8L	2 3/4	25	1000	3 5/8	2.67
805L*	7/8L	3 1/8	25	500	6 3/4	4.00
807L*	1 1/4L	3 7/8	25	500	10	5.67

*These sizes have longer nails for greater line carrying capacity.



TOGGLE BRIDLE RINGS

Cat. No.	Toggle Dia. In.	Lgth. In.	Eye Size In.	No. Per Ctn.	Wt. Lbs. Per 100	Per 100
TBR2	1 1/8	X 4	3/4	100	8	\$19.36
TBR4	1/4	X 4	1 1/4	100	17	24.64

BRIDLE RINGS



Style A, C, E, F

Style K, M, Q, R

If wood screw type used in masonry, use multi-size screw anchors.

Wood Screw Type

Cat. No.	Style	Eye Size, In.	No. Per Box	Wt. Lbs. Per 100	Per 100
810	A	1 1/8	100	10 3/4	\$10.66
812	C	1 1/4	100	8 3/4	9.66
814	E	5/8	100	3 1/2	4.53
816	F	3	100	31	40.00

Machine Screw Type

Cat. No.	Style	Eye Size, In.	No. Per Box	Wt. Lbs. Per 100	Per 100
821	K	3/4	100	4	4.40
823	M	1 1/4	100	5 3/4	4.70
825	Q	1 1/4	100	8	9.80
827	R	1 1/8	100	9 1/2	10.40

Nos. 821 and 823 — 10-24 thread. Nos. 825 — 827 1/4"-20 thread.

INSULATED SCREW EYES



The porcelain ring has a diagonal opening which allows the easy insertion of wires and when pulled taut they cannot become released from the ring.

The porcelain is glazed on the interior surface of the ring and on the surfaces of the slot. Screw eye is hot galvanized.

Cat. No.	Eye Size, In.	Lgth. In.	No. Per Box	Wt. Lbs. Per 100	Per 100
830	5/8 S	2 7/8	100	7 1/2	\$10.08
831	5/8 L	3 3/4	100	8 1/2	12.60
832	1 S	3 3/8	100	16	17.64

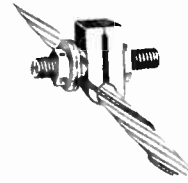


ANGLE SCREW FIXTURES

Cat. No.	Screw Dia., In.	No. Per Box	Wt. Lbs. Per 100	Per 100
840	1/8	100	10	\$10.35
840-A*	5/16	100	11	13.50
841	3/8	100	20	17.10

This size made of 1/8" stock.

"D" CABLE LASHING CLAMPS



Furnished with double ended stud bolt and washers and free running nuts, all galvanized.

Cat. No.	No. Per Box	No. Per Carton	Wt. Lbs. Per 100	Per 100
D-901	100	300	16	\$17.94
D-901A	100	300	9	20.00

"E" CABLE LASHING CLAMPS



These clamps are the same as the "D" type except the plates are of one-piece construction.

Cat. No.	No. Per Box	No. Per Carton	Wt. Lbs. Per 100	Per 100
E-902	100	300	11	\$15.67

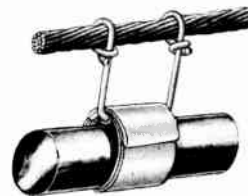
"C" SPAN CLAMPS



Used to take off drop wire leads along the span and for pull-offs to hold cable away from trees. Can be used with either suspended or lashed cable.

Cat. No.	No. Per Carton	Wt. Lbs. Per 100	Per 100
869A	100	25	\$37.13

AERIAL CABLE SUPPORTS



Cat. No.	Strap Lgth. In.	Max. Cable Size Dia. In.	Max. Cable Size Cir. In.	No. Per Ctn.	Wt. Lbs. Per 100	Per 100
891	10	3/4	2 1/8	500	8 1/2	\$ 8.10
892	16	1 1/8	3 3/8	500	11	9.78
893	22	2	6 1/8	300	13	11.53
894	28	2 3/4	8 1/8	300	16	14.02
895	34	3 1/8	10	300	18 1/2	15.91
896	50	5	15 1/8	200	25 1/2	20.44
897	64	6 1/2	20 1/2	200	31 1/2	24.31
898*	64	6 1/2	20 1/2	200	35	28.54

*Supplied with 10" U-shaped wire. All others supplied with 5" wire.

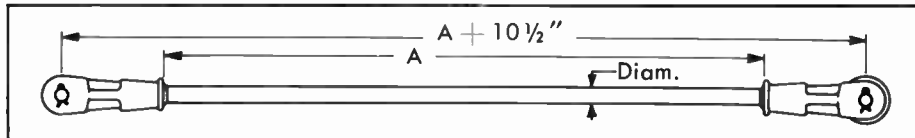
KEARNEY FIBERGLAS STRAIN INSULATORS



Fig. 1



Fig. 2



Flashover Resistant — Withstand repeated flashovers without damage. The fibreglas does not track. Contains no moisture, so there is no explosive fracturing by lightning. Mechanical and electrical characteristics are not affected by length of service or environment. Excellent rain washing action.

Faster installation — Kearney strain insulators are smaller and lighter in weight than wood. They are much easier to handle. No field assembly of parts required. Large color coded labels provide instant identification of the strength rating.

Individually tested — Every Kearney fibreglas strain insulator is mechanically tested at its full rated strength.

Label Color Diam.	Minimum Breaking Strength, Lbs.	Length A	Clevis End Fittings Fig. 1 Catalog Number		Tongue and Clevis End Fittings Fig. 2 Catalog Number		Electrical Characteristics Flashover — KV		
			W/1 Sheave Wheel	W/2 Sheave Wheels▲	W/No Sheave Wheel	W/1 Sheave Wheel	60 Cycle, Dry	60 Cycle, Wet	1 1/2 x 40 MS Critical
Blue 5/8"	15,000	12	321015-12	322015-12	323015-12	324015-12	170	45	240
		18	321015-18	322015-18	323015-18	324015-18	225	80	320
		24	321015-01	322015-01	323015-24	324015-24	280	120	405
		30	321015-30	322015-30	323015-30	324015-30	335	155	490
		35	321015-02	322015-02	323015-35	324015-35	375	185	560
		42	321015-42	322015-42	323015-42	324015-42	435	230	655
		55	321015-03	322015-03	323015-55	324015-55	540	300	840
		60	321015-60	322015-60	323015-60	324015-60	585	330	910
		75	321015-04	322015-04	323015-75	324015-75	705	410	1120
		90	321015-90	322015-90	323015-90	324015-90	815	490	1330
Yellow 5/8"	21,000	96	321015-96	322015-96	323015-96	324015-96	860	520	1410
		24	321021-01	322021-01	323021-24	324021-24	280	120	405
		35	321021-02	322021-02	323021-35	324021-35	375	185	560
		42	321021-42	322021-42	323021-42	324021-42	435	230	655
		48	321021-48	322021-48	323021-48	324021-48	485	265	740
		55	321021-03	322021-03	323021-55	324021-55	540	300	840
		60	321021-60	322021-60	323021-60	324021-60	585	330	910
		75	321021-04	322021-04	323021-75	324021-75	705	410	1120
		90	321021-90	322021-90	323021-90	324021-90	815	490	1330
		96	321021-96	322021-96	323021-96	324021-96	860	520	1410
Green 7/8"	30,000	108	321021-108	322021-108	323021-108	324021-108	930	580	1580
		120	321021-120	322021-120	323021-120	324021-120	990	625	1750
		144	321021-144	322015-144	323021-144	324021-144	*	*	*
		24	321030-01	322030-01			280	120	405
		35	321030-02	322030-02			375	185	560
		42	321030-42	322030-42			435	230	655
		48	321030-48	322030-48			485	265	740
		55	321030-03	322030-03			540	300	840
		60	321030-60	322030-60			585	330	910
		75	321030-04	322030-04			705	410	1120
90	321030-90	322030-90			815	490	1330		
Red 7/8"	35,000	96	321030-96	322030-96			860	520	1410
		108	321030-108	322030-108			930	580	1580
		120	321030-120	322030-120			990	625	1750
		144	321030-144	322030-144			*	*	*
		36	321035-36	322035-36			385	190	575
		48	321035-48	322035-48			485	265	740
		54	321035-54	322035-54			535	295	825
		60	321035-01	322035-01			585	330	910
		78	321035-78	322035-78			730	430	1160
		84	321035-02	322035-02			770	460	1245
90	321035-90	322035-90			815	490	1330		
96	321035-96	322035-96			860	520	1410		
108	321035-108	322035-108			930	580	1580		
120	321035-03	322035-03			990	625	1750		
144	321035-144	322035-144			*	*	*		
168	321035-168	322035-168			*	*	*		

▲ Furnished with one sheave wheel in each end.

Price on Application

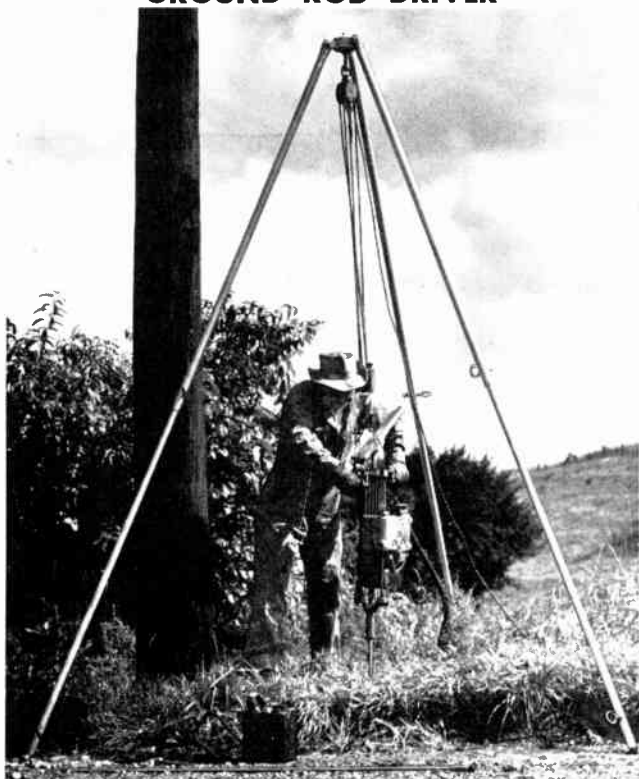
COPPERWELD GROUND RODS



The only ground rods with a thick copper covering inseparably Molten-Welded to a strong steel core, they provide stiffness for easy driving and rust resistance for long life. Copper-to-copper contacts throughout assure low resistance.

Cat. No.	Diam. In.	Length Feet	Approx. Shipping Wt. Lbs. 100 Pcs.
9415	3/8	5	195
9416	3/8	6	235
9388	3/8	8	310
9425	1/2	5	355
9426	1/2	6	425
9427	1/2	7	495
9428	1/2	8	565
9429	1/2	9	635
9430	1/2	10	710
9432	1/2	12	850
9434 1/2	1/2	15	1060
9435	5/8	5	485
9436	5/8	6	580
9437	5/8	7	675
9438	5/8	8	775
9439	5/8	9	870
9440	5/8	10	965
9442	5/8	12	1160
9444	5/8	15	1450
9656	5/8	16	1545
9445	3/4	5	700
9446	3/4	6	840
9447	3/4	7	980
9448	3/4	8	1120
9449	3/4	9	1260
9450	3/4	10	1400
9452	3/4	12	1680
9455	3/4	15	2100
9456	3/4	16	2240
9460	3/4	20	2800
9466	1	6	1600
9468	1	8	2130
9470	1	10	2670
9474	1	15	4000
9479	1	20	5330

COPPERWELD TRIPOD GROUND ROD DRIVER



Price on Application

COPPERWELD PIGTAIL GROUND RODS



The Copperweld Ground Rod with an annealed Copperweld pigtail was developed for use where pigtail connections are preferred for subscriber station grounds. These rods are regularly furnished in 5- and 6-foot lengths with 18-inch pigtails. Also available with 36" pigtails.

The pigtail connections are firmly attached to the rod by means of a heavy copper sleeve which is compressed on the rod and pigtail. The assembly is dipped in lead-tin alloy solder to further seal and strengthen the connection. Secured to the rod one inch from the top end, the pigtail does not interfere with driving. On these rods it is only necessary to bend the wire upward to make the connection. The wire is attached to the rod so that it is well protected while handling in the storeroom and in the field, yet is convenient both for driving and for making a ground connection.

Copperweld Pigtail-Type Ground Rods With Annealed Copperweld Pigtails

Cat. No. With 18" Pigtails	Nominal Rod Size	Pigtail Wire Size	No. of Rods Per Std. Pkg.	Approx. Shipping Wt. Lbs. 100 Pcs.
7775	3/8" x 5'	.104"	25	200
7776	3/8" x 6'	.104"	25	240
7795	1/2" x 5'	.128"	10	360
7796	1/2" x 6'	.128"	10	430
7797	1/2" x 7'	.128"	10	500
7798	1/2" x 8'	.128"	10	570

COPPERWELD SECTIONAL GROUND RODS



Designed to meet the requirements for deep, dependable, low-resistance grounds. May be driven to satisfactory depths by hand, air hammer, or gasoline hammer. Rod sections are joined by heavy, tapped, bronze couplings. Steel driving studs protect the threading.

Cat. No.	Size	Description	Approx. Shipping Wt., Lbs. 100 Pcs.
9533	1/2"	Bronze Coupling	16
9534	5/8"	Bronze Coupling	25
9535	3/4"	Bronze Coupling	42
9536	1"	Bronze Coupling	81
29533	1/2"	Driving Stud	16
29534	5/8"	Driving Stud	22
29535	3/4"	Driving Stud	33
29536	1"	Driving Stud	66
29428	1/2" x 8'	Sectional Rod	565
29430	1/2" x 10'	Sectional Rod	710
29438	5/8" x 8'	Sectional Rod	705
29440	5/8" x 10'	Sectional Rod	880
29448	3/4" x 8'	Sectional Rod	1035
29450	3/4" x 10'	Sectional Rod	1290
29468	1" x 8'	Sectional Rod	1860
29470	1" x 10'	Sectional Rod	2325

**COPPERWELD
GROUND ROD CLAMPS**



Copperweld Type AB Ground Rod Clamps are strong, non-rusting, low-cost clamps that provide a high-pressure contact between the rod and the grounding wire. The rugged, one-piece cast bronze clamp body will withstand unusual abuse. They can be easily disconnected to measure the resistance of the ground.

The non-ferrous set screws are cupped so that when tightened, the clamp cannot slip on the rod.

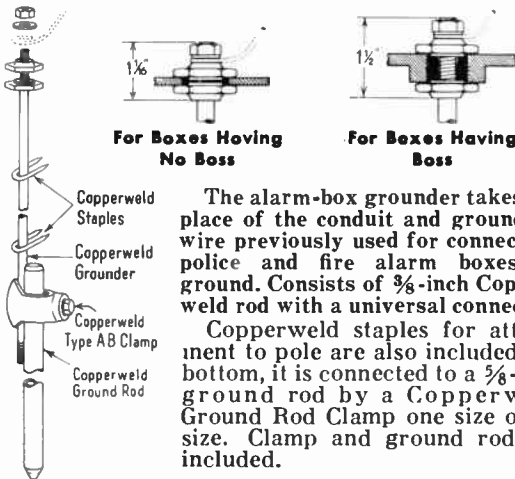
Clamps are supplied with either hexagonal-head or tamper-proof safety set screws. Special wrenches are supplied free of charge with each shipment of safety set screw clamps.



Catalog No.	Safety Set Screw	Hex-Head Set Screw	Rod Diam. In.	Wire Size	Approx. Ship. Wt., Lbs. Per 100
*6528	6538		3/8	6 to 14 A.W.G. Solid	9
*6529	6539		1/2	2 to 10 A.W.G. Solid	16
*6530	6540		5/8	1/0 to 8 A.W.G. Solid	18
*6531	6541		3/4	1/0 to 8 A.W.G. Solid	26
*6532	6542		1	1/0 to 8 A.W.G. Solid	41
*6533	6543	Special	3/4	4/0 Strand to 4 A.W.G. Solid	27
*6534	6544	Special	1	4/0 Strand	42

*Five wrenches furnished with each lot of 100 clamps. One wrench each lot 30 clamps or less.

**COPPERWELD
ALARM-BOX GROUNTERS**



The alarm-box grounder takes the place of the conduit and grounding wire previously used for connecting police and fire alarm boxes to ground. Consists of 3/8-inch Copperweld rod with a universal connector.

Copperweld staples for attachment to pole are also included. At bottom, it is connected to a 3/8-inch ground rod by a Copperweld Ground Rod Clamp one size over-size. Clamp and ground rod not included.

No.	Diameter Rod, In.	Length Rod, Ft.	Ship. Wt. Per 100
9335	3/8	5	235
9336	3/8	6	275
9337	3/8	7	315

Price on Application

**COPPERWELD,
ALUMOWELD STAPLES**



Larger sizes of Copperweld and Alumoweld Staples are used for attaching ground wire moulding to the pole and the smaller sizes for insulated or bare ground wires.

Use Nos. 7521 and 7522 for standard 1-inch moulding attachments.

Copperweld Rolled Point Staples

No.	Length In.	Width Inside In.	Thickness In.	Approx. Shipping Wt., Lbs. Per 100
7493	1 1/4	1/4	.114	0.6
7494	1 1/2	5/16	.144	1.2
7495	1 3/4	3/8	.144	1.5
7496	2	1/2	.162	2.2
7497	3	3/4	1/4	7.7
7498	3	1 1/2	1/4	8.3
7499	3 3/4	1 3/4	5/16	16.1
7521	2	1 1/16	3/16	3.1
7522	3	1	1/4	7.9
7522 1/2	3	1 1/16	1/4	8.0
7523	3 1/2	1 1/2	1/4	9.8

Copperweld Cut Point Staples

7650	2	1/2	.162	2.3
7651	1 3/8	1/2	.162	1.6
7652	1 1/2	3/8	.162	2.1
7653	2	1/4	.162	2.3
7654	1 1/4	3/16	.114	.75

Alumoweld Rolled Point Staples

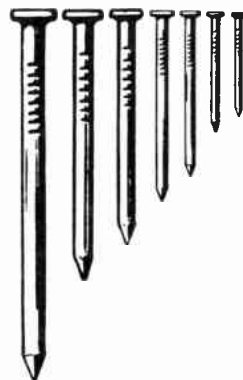
RPA 1229	1 1/4	1/4	.114	.5
RPA 1457	1 1/2	5/16	.144	1.0
RPA 1637	1 3/4	3/8	.144	1.2

Alumoweld Cut Point Staples

CPA 1436	1 1/2	3/8	.162	1.5
CPA 2026	2	1/4	.162	1.8
CPA 2046	2	1/2	.162	1.9

COPPERWELD NAILS

Used for attaching strain plates, or for locking pins and detachable pole steps, mounting conduit or cable guard straps and many other attachments where permanent safety from corrosion is necessary.



No.	Size	Length Inches	Shipping Wt., Lbs. Per 100
8252	2d	1	.1
8253	3d	1 1/4	.2
8254	4d	1 1/2	.3
8255	5d	1 3/4	.5
8256	6d	2	.8
8258	8d	2 1/2	1.2
8259	9d	2 3/4	1.4
8260	10d	3	1.6
8262	12d	3 1/4	1.8
8266	16d	3 1/2	2.3
8270	20d	4	3.3
8280	30d	4 1/2	4.8
8290	40d	5	6.3
8300	50d	5 1/2	7.5
8310	60d	6	10.0

COPPERWELD ANCHOR RODS



The strong holding power of these non-rusting anchor rods is always the same . . . protecting your overhead lines year in and year out. The threaded ends are heavily coated with pure tin to permit the use of ferrous or non-ferrous fittings. Copperweld Anchor Rods are available in the three sizes shown below:

Nominal Diameter Inch	Rated Breaking Strength Lbs.	ASA Thread Size
5/8	18,500	5/8-11
3/4	26,500	3/4-10
1	45,000	1-8

Ordering Information

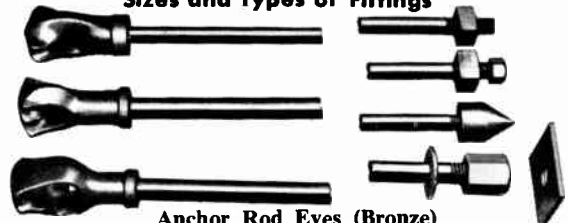
When ordering Copperweld Anchor Rods, specify the catalog number listed below for the desired diameter and length. The 5/8-inch and 3/4-inch rods are packed in bundles of five each; 1-inch rods, three to a bundle. Plastic caps are used to cover the threaded ends of the rods and protect them from damage in shipment.

Fittings are packed and shipped separately, and should be ordered to suit the requirements of the particular type of anchor used. Catalog numbers are listed below for the non-ferrous fittings that are available.

Copperweld Anchor Rods

Cat. No.	Size	Cat. No.	Size
25516	5/8" x 6 ft.	25529	3/4" x 9 ft.
25517	5/8" x 7 ft.	25532	3/4" x 12 ft.
25518	5/8" x 8 ft.	25538	1" x 8 ft.
25522	5/8" x 12 ft.	25539	1" x 9 ft.
25526	3/4" x 6 ft.	25540	1" x 10 ft.
25527	3/4" x 7 ft.	25542	1" x 12 ft.
25528	3/4" x 8 ft.		

Sizes and Types of Fittings



Anchor Rod Eyes (Bronze)

Cat. No.	Size
27510	5/8" single eye
27560	5/8" double eye
27511	3/4" single eye
27561	3/4" double eye
—	3/4" triple eye
27512	1" single eye
27562	1" double eye
27590	1" triple eye

Square Nuts (Bronze)

Cat. No.	Size
25571	5/8"
25572	3/4"
25573	1"

Cap Nuts (Bronze)

Cat. No.	Size
25561	5/8"
25562	3/4"
25563	1"

Drive Points (Bronze)

Cat. No.	Size
25596	5/8"
25597	3/4"
25598	1"

Closed End Nuts (Bronze)

Cat. No.	Size
25551	5/8"
25552	3/4"
25553	1"

Round Washers (Bronze)

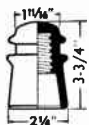
Cat. No.	Size
25580	5/8"
25581	3/4" and 1"

Square Washers (Bronze)

Cat. No.	Size
25590	5/8"
25591	3/4" and 1"

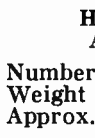
TELEPHONE AND TELEGRAPH INSULATORS

Methods for testing glass insulators are those established by A.S.T.M. D-468-42 Standard Methods of Testing Pin-type, Limeglass Insulators. These insulators will also meet product specifications of various utilities companies and the Association of American Railroads specification for double-petti-coat glass Insulators 1-A-33.



**Hemingray Cat. No. 9
Armstrong Cat. No. 9**

Number per carton	50
Weight per carton	30 lbs.
Approx. wt. 1000 pcs.	600 lbs.



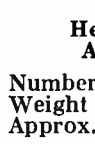
**Hemingray Cat. No. 10
Armstrong Cat. No. 3**

Number per carton	50
Weight per carton	35 lbs.
Approx. wt. 1000 pcs.	700 lbs.



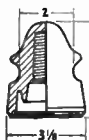
Hemingray Cat. No. 12

Number per carton	50
Weight per carton	32 1/2 lbs.
Approx. wt. 1000 pcs.	650 lbs.



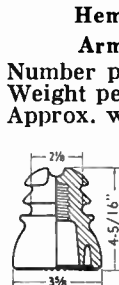
**Hemingray Cat. No. 17
Armstrong Cat. No. 2**

Number per carton	50
Weight per carton	52 lbs.
Approx. wt. 1000 pcs.	1040 lbs.



Hemingray Cat. No. 20

Number per carton	50
Weight per carton	59 1/2 lbs.
Approx. wt. 1000 pcs.	1190 lbs.



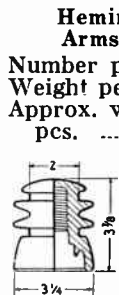
**Hemingray Cat. No. 23
Armstrong Cat. No. TS**

Number per carton	50
Weight per carton	50 lbs.
Approx. wt. 1000 pcs.	1000 lbs.



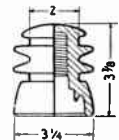
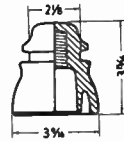
Hemingray Cat. No. 43

Number per carton	30
Weight per carton	51 1/2 lbs.
Approx. wt. 1000 pcs.	1716 lbs.



**Hemingray Cat. No. 45
Armstrong Cat. No. 1**

Number per carton	40
Weight per carton	64 lbs.
Approx. wt. 1000 pcs.	1600 lbs.

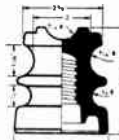


**Hemingray Cat. No. 56
Armstrong Cat. No. TW**

Number per carton	40
Weight per carton	60 lbs.
Approx. wt. 1000 pcs.	1500 lbs.

**OWENS - ILLINOIS - HEMINGRAY
POWER INSULATORS**

Each lot is tested under methods set by the American Institute of Electrical Engineers in specifications No. 41-1944 (ASA C 29-1944), and by the American Society for Testing Materials D730-43T. Inspection is conducted in accordance with Edison Electric Institute specifications TD-51-1942.



Cat. No. 660

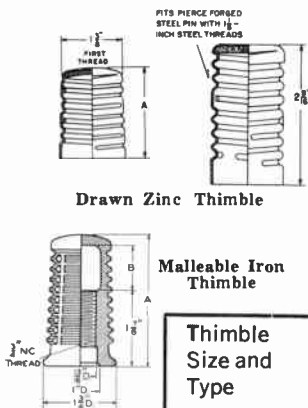
Number per carton	40
Weight per carton	56 lbs.
Approx. wt. 1000 pcs.	1400 lbs.

OHIO BRASS PINTYPE INSULATORS



Cat. No.	ASA Class	Flashover Voltage — kv		Leakage Distance In.	Ultimate Strength Lbs.	Outside Dia. In.	O.A. Hgt. In.	Pin-hole Dia. In.	Recom-mended Pin Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Per 100			
		Low Frequency Dry	Wet												
No. 29207															
No. 9953															
No. 38148															
No. 30965															
No. 38246															
One-Piece Low Voltage Pintype Insulators															
29207	55-1	35	20	50	70	4	2 1/4	3000	3 1/4	3 1/8	1	4	50	135	\$38.00
12847	55-2	50	25	75	95	5	3 3/8	2500	3 3/4	3 3/8	1	4	50	148	42.00
30418	.....	30	15	45	60	2 5/8	2	2500	2 3/4	4	1	4	50	102	37.00
9953	.....	50	25	75	95	4	3 1/4	3000	3 1/8	3 5/8	1	4	50	170	48.00
One-Piece Silentype Low Voltage Pintype Insulators															
38148	55-3	65	35	100	130	7	4 1/2	2500	4 3/4	4	1	5	32	210	63.00
38149	55-4	70	40	110	140	9	5	3000	5 1/2	4 5/8	1	5	18	366	96.00
38151	55-5	85	45	140	170	12	6 1/4	3000	7	4 1/8	1	6	12	625	162.00
38152	55-5	85	45	140	170	12	6 1/4	3000	7	4 1/8	1 3/8	6	12	625	162.00
Fogbowl Low Voltage Pintype Insulator															
30965	.....	65	35	120	110	11	5 1/4	2500	4 5/8	5 1/8	1	6	18	348	153.00
Fogbowl Silentype Low Voltage Pintype Insulator															
40965*	.....	100	50	160	140	16 1/2	7 1/4	3000	7	6 1/8	1 3/8	7	18	790	395.00
Multipart Silentype Standard Pintype Insulators															
38246*	56-1	95	60	150	190	13	7	2500	7 1/2	5 3/4	1 3/8	6	8	800	318.00
38222*	56-2	110	70	175	225	17	8 1/4	3000	9	6 1/2	1 3/8	7	6	1125	392.00
38223*	56-3	125	80	200	265	21	9 1/2	3000	10 1/2	7 3/8	1 3/8	8	6	1595	479.00
38255*	56-4	140	95	225	310	27	11 1/4	3000	12	9 1/8	1 3/8	10	3	2700	777.00

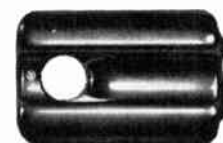
*To order complete assemblies, specify the basic catalog number plus a suffix from suffix table.



Without Conductor Clamp	CLAMP SPECIFICATION — CLAMPTOP ONLY								
	Malleable Iron				Aluminum				
	Conductor Dia. 0.25 to 0.5625 in. (clamp assembly only—No. 91807)	Conductor Dia. 0.5 to 1.0625 in. (clamp assembly only—No. 91808)	Conductor Dia. 1.0625 to 1.50 in. (clamp assembly only—No. 91809)	Conductor Dia. 1.50 to 2.00 in. (clamp assembly only—No. 91810)	Conductor Dia. 0.25 to 0.5625 in. (clamp assembly only—No. 93862)	Conductor Dia. 0.50 to 1.0625 in. (clamp assembly only—No. 91221)	Conductor Dia. 1.0625 to 1.50 in. (clamp assembly only—No. 91222)	Conductor Dia. 1.50 to 2.00 in. (clamp assembly only—No. 91223)	
Thimble Size and Type	3010	6012	6013	6014	6015	6016	6017	6018	6019
1 3/8" Zinc	3020	6022	6023	6024	6025	6026	6027	6028	6029
1 1/8" Zinc	3030	6032	6033	6034	6035	6036	6037	6038	6039
1" Zinc	3080	6082	6083	6084	6085	6086	6087	6088	6089
3/4" Malleable Iron									

OHIO BRASS STRAIN INSULATORS

Cat. No.	ASA Class	Low Frequency Flashover Dry	Wet	Leakage Distance In.	Ultimate Strength Lbs.	Outside Dia. In.	O.A. Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
JB Type Strain Insulators										
31502	54-1	25	12	1 3/8	10,000	2 1/2	3 1/2	50	105	\$50.00
31504	54-2	30	15	1 7/8	12,000	2 3/8	4 1/4	50	160	61.00
31506	54-3	35	18	2 1/4	20,000	3 3/8	5 1/2	25	300	87.00
Multi-Fin Type Strain Insulators										
31350	.....	30	17	2 1/8	10,000	2 5/8	3 1/2	50	145	61.00
31351	.....	35	20	2 3/4	12,000	3 1/4	5 1/2	25	330	99.00
31352	54-4	40	23	3	20,000	3 1/2	6 3/4	16	415	136.00



No. 31502



No. 31350

OHIO BRASS SUSPENSION INSULATORS



No. 32434



No. 32435

Cat. No.	ASA Class	Flashover Voltage—kv			Leakage Distance In.	Dry Arcing Distance In.	Section Lgth. In.	Porc. Disc Dia. In.	Combined M & E Strength Lbs.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
		Low Frequency Dry	Wet	Impulse Critical 1 1/2 x 40 Mu-Sec. Wave Pos. Neg.								
Ball-Socket Type Suspension Insulators												
32434	.....	65	35	115	115	8 3/4	5 3/4	5 3/4	7 1/2	6	900	\$335.00
32436	.....	80	50	125	130	11 1/2	7 3/4	5	10	6	1160	375.00
32440	52-3	80	50	125	130	11 1/2	7 3/4	5 3/4	10	6	1180	375.00
34500	.....	80	50	125	130	11	8	5 3/4	10	6	1380	375.00
48008	.....	80	50	125	130	11 1/2	7 1/2	5 3/4	9 1/2	6	1100	345.00
48058	.....	80	50	125	130	11 1/2	7 1/2	5 3/4	9 1/2	6	1100	345.00
Clevis-Type Suspension Insulators												
42399	.....	60	30	100	90	6 3/4	4	6 1/4	4 3/4	12	530	260.00
32433	52-1	60	30	100	100	7	4 1/2	5 1/2	6	12	550	250.00
32435	52-2	65	35	115	115	8 1/4	5 3/4	5 3/4	7 1/2	8	890	345.00
32439	52-4	80	50	125	130	11 1/2	7 3/4	5 3/4	10	6	1190	385.00
35301	.....	80	50	125	130	11	8	5 3/4	10	6	1390	385.00
41799	.....	25	10	45	40	1 1/2	1 1/2	5 3/4	.....	12	550	305.00
48507	.....	25	10	45	40	1 1/2	1 1/2	5 3/4	.....	12	630	365.00
48019	.....	80	50	125	130	11 1/2	7 1/2	5 3/4	9 1/2	6	1110	355.00

OHIO BRASS PORCELAIN SPOOLS AND CLEVIS ASSEMBLIES



No. 36368



No. 36144



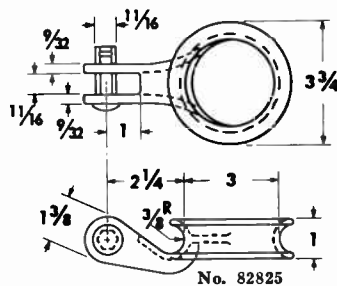
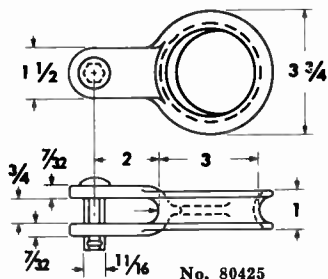
No. 36151

Spool Only		Clevis Only		Complete Assy.		ASA Class Spool Only	Low Frequency Flashover — kv			Ultimate Strength Lbs.	Spool		Clevis	
Cat. No.	Per 100	Cat. No.	Per 100	Cat. No.	Per 100		Dry	Hor.	Vert.		Outside Dia. In.	O.A. Hgt. In.	Spool Opng. In.	Lgth. to C/L In.
36139	\$18.00	82250	\$87.00	36146	\$105.00	53-1	20	10	8	2000	2 3/4	2 1/8	2 1/8	4 1/2
36361	31.00	82336	97.50	36368	128.50	53-2&3	25	15	12	4000	3	3	3	4 1/8
38911	52.50	82336	97.50	38936	150.00	53-4	25	15	12	4500	4	3	3	4 1/8
36140	77.00	82251	133.00	36144	210.00	53-5	35	25	18	6000	4	4 1/8	4 1/8	5 3/8
36140	77.00	82252	248.00	36151	210.00	53-5	35	25	18	6000	4	4 1/8	4 1/8	6



OHIO BRASS DEADEND THIMBLES









Either thimble attaches directly to the eye or clevis of a suspension insulator and serves as a means for dead-ending or turning angles. Made of malleable iron, hot-dip galvanized



Cat. No.	Ultimate Strength Lbs.	Wt. Lbs. Per 100	Per 100
80425	7,000	130	\$114.00
82825	7,000	130	110.00

OHIO BRASS VERTICAL LINE POST INSULATORS

Cat. No.	ASA Class	Flashover Voltage — kv —				Leakage Distance In.	Dry Arcing Distance In.	Cantilever Strength Lbs.	Out-side Dia. Insul. In.	O.A. Hgt. Insul. In.	Stud Dia. In.	Recom-mended Stud Lgth. In.	Std. Pkg.	Wt. Lbs. Per 100	Per 100
		Low Frequency	Impulse	1 1/2 x 40 Critical	Wave Neg.										
Clamptop Vertical Line Post Insulators															
43902	.....	70	50	100	125	10	5	2800	6	6 5/8	5/8	1 3/4 or 7	6	1430	\$612.00
43920	.....	80	60	130	155	14	6 1/2	2800	6	8 1/4	5/8	1 3/4 or 7	6	1550	656.00
43930	.....	110	85	180	205	22	9 1/2	2800	6 1/2	11 1/2	3/4	1 3/4 or 7	6	2530	847.00
43940	.....	125	100	210	260	29	12 1/4	2800	6 3/4	14 1/2	3/4	1 3/4 or 7	1	3170	1000.00
43950	.....	150	125	255	340	40	14 1/2	2800	7 1/2	17 3/4	3/4	1 3/4 or 7	1	4700	1527.00
43960	.....	160	135	275	365	42	16	2800	7 1/2	18 3/4	3/4	1 3/4 or 7	1	4800	1827.00
43970	.....	175	150	290	380	45	17 1/4	2800	7 1/2	20	3/4	1 3/4 or 7	1	5430	2054.00
43980	.....	200	170	330	425	53	19 1/4	2800	8 3/8	23	7/8	2 or 8	1	7500	2425.00
Tie Top Vertical Line Post Insulators															
43400	.....	80	55	105	130	11	5 3/4	1500	5 3/4	7	5/8	1 3/4 or 7	6	760	368.15
43401	.....	95	65	135	190	15	7 5/8	1500	5 1/4	9	5/8	1 3/4 or 7	6	920	448.20
37600	.....	70	50	100	125	10	5	2800	5	6 5/8	5/8	1 3/4 or 7	6	740	506.40
37610	57-1L&1S	80	60	130	155	14	6 1/2	2800	5 1/2	8 1/4	5/8	1 3/4 or 7	6	1100	541.20
37620	57-2L&2S	110	85	180	205	22	9 1/2	2800	5 3/4	11 1/2	3/4	1 3/4 or 7	3	1970	762.90
41640	57-3L&3S	125	100	210	260	29	12 1/4	2800	6 3/8	14 1/2	3/4	1 3/4 or 7	3	2800	913.95
41650	57-4L&4S	150	125	255	340	40	14 1/2	2800	7 1/2	17 3/4	3/4	1 3/4 or 7	3	4600	1440.00
41660	.....	160	135	275	365	42	16	2800	7 1/2	18 3/4	3/4	1 3/4 or 7	3	4850	1742.10
41670	57-5L&5S	175	150	290	380	45	17 1/4	2800	7 1/2	20	3/4	1 3/4 or 7	3	5470	1969.25
41690	.....	200	170	330	425	53	19 1/4	2800	8	23	7/8	2 or 8	2	7450	2340.95

 Tie Top  Clamptop Vertical Line Posts—Tie Top, only	CLAMP SPECIFICATION — CLAMPTOP ONLY									
	Malleable Iron					Aluminum				
	Without Conductor Clamp	Conductor Dia. 0.25 to 0.5625 in. (clamp assembly only—No. 91807)	Conductor Dia. 0.5 to 1.0625 in. (clamp assembly only—No. 91808)	Conductor Dia. 1.0625 to 1.50 in. (clamp assembly only—No. 91809)	Conductor Dia. 1.50 to 2.00 in. (clamp assembly only—No. 91810)	Conductor Dia. 0.25 to 0.5625 in. (clamp assembly only—No. 93862)	Conductor Dia. 0.50 to 1.0625 in. (clamp assembly only—No. 91221)	Conductor Dia. 1.0625 to 1.50 in. (clamp assembly only—No. 91222)	Conductor Dia. 1.50 to 2.00 in. (clamp assembly only—No. 91223)	
Horizontal Line Posts—Clamptop	3001	6002	6003	6004	6005	6006	6007	6008	6009	
Vertical Line Posts—Clamptop										
Without Stud	3001	3001	6002	6003	6004	6005	6006	6007	6008	6009
With Short Stud:										
 *5/8 x 1 1/4 in. (Stud only—Catalog No. 87563)	3010	3010	6012	6013	6014	6015	6016	6017	6018	6019
 *3/4 x 1 1/4 in. (Stud only—Catalog No. 87573)	3020	3020	6022	6023	6024	6025	6026	6027	6028	6029
 *7/8 x 2 in. (Stud only—Catalog No. 87583)	3030	3030	6032	6033	6034	6035	6036	6037	6038	6039
With Long Stud:										
 *5/8 x 7 in. (Stud only—Catalog No. 87564)	3040	3040	6042	6043	6044	6045	6046	6047	6048	6049
 *3/4 x 7 in. (Stud only—Catalog No. 87574)	3050	3050	6052	6053	6054	6055	6056	6057	6058	6059
 *7/8 x 8 in. (Stud only—Catalog No. 87584)	3060	3060	6062	6063	6064	6065	6066	6067	6068	6069

*See diameter and recommended lengths for various post sizes listed with each insulator in table of mechanical characteristics. NOTE: Where either 5/8 in. or 3/4 in. studs are recommended, these

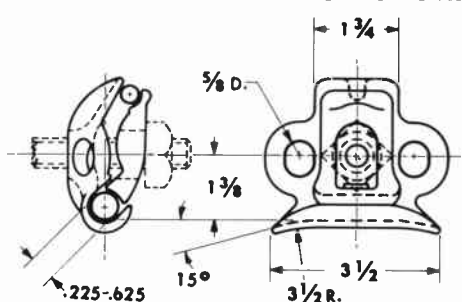
can be interchanged for special applications. The 7/8 in. stud is not interchangeable with other sizes. Recommendations are based on cantilever strengths listed in mechanical strength tables.

OHIO BRASS NEUTRAL CLAMPS

Equipped with a seat for neutral conductor, with eyes on each side for dead-ending service, and with an upper groove for ground wire or neutral secondary service wire. Clamp body is tapped so that clamping pressure on the conductor will be independent of pole shrinkage. Malleable iron, hot-dip galvanized. Pole bolt not furnished.



No. 81000



Cat. No.	Bolt Hole Dia., In.	Wt. Lbs. Per 100	Per 100
81000	5/8	120	\$135.00
81005	1/2	120	135.00

CHANCE ANCHORS AND GUYING MATERIALS

**POWER INSTALLED
SCREW ANCHOR**



Anchors are installed by attaching the P.I.S.A. wrench to the Kelly bars of power diggers. The anchors can be quickly screwed down with the anchor wrench transmitting the torque from the digger to the anchor hub. Anchor rods need be only large enough to hold the load. Both one- and two-helix anchors are available for matching holding power with construction requirements. Anchors are available with Thimbleye, Twineye, or Tripleye guy wire attachments.

Cat. No. Tripleye*	Helix Size, In.	Area Sq. Inches	Rod Size	Each
8B3	8	50	5/8" x 7'	\$ 8.25
8D3	8	50	1" x 7'	10.85
10B3	10	78	5/8" x 7'	8.90
10D3	10	78	1" x 7'	11.20
11D3	11 1/8	100	1" x 7'	12.00
28D3	2 - 8	50 ea.	1" x 7'	17.60
210D3	2 - 10	78 ea.	1" x 7'	20.80

*For Thimbleye, change "3" to "1", for Twineye, change "3" to "2".

**Ultimate Soil-Anchor Holding Strength - Pounds
No Safety Factors Included**

Basic Cat. No.	Class 2	Class 3	Class 4	Class 5	Class 6
8B	12,000+	12,000+	12,000+	12,000+	12,000+
8D	25,000	22,000	19,000	16,000	13,000
10B	12,000+	12,000+	12,000+	12,000+	12,000+
10D	28,000	25,000	21,000	18,000	14,000
11D	32,000	28,000	24,000	21,000	18,000
28D	36,000+	30,000	26,000	22,000	20,000
210D	36,000+	36,000+	36,000+	30,000	26,000

+Yield Strength of Rod.

NO WRENCH SCREW ANCHOR



Chance no wrench screw anchors consist of a drop forged galvanized steel thimbleye or tripleye rod double arc welded to a high strength structural steel blade. Blade in each size anchor is correctly pitched for best installation and holding power. Small hub minimizes earth disturbance. A bar is used as a wrench for installing the anchor.

Tripleye Cat. No.	Size In.	Area Sq. In.	Rod O'v'all Size Lgth. In.	Wt. Lbs. Per 100	Each
4345*	4	12 1/2	3/4	54	806 \$ 3.05
6346*	6	28	3/4	66	1040 4.00
816*	8	50	1	66	1842 6.10
10146	10	78	1 1/4	66	3200 9.10
10148	10	78	1 1/4	96	4100 11.10
15148	15	177	1 1/4	96	5500 19.80

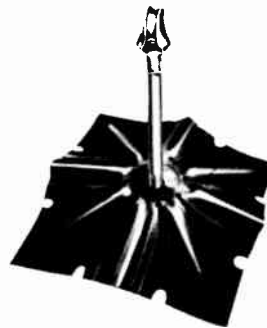
*For Thimbleye rod, add suffix - 1.

**Ultimate Soil-Anchor Holding Strength - Pounds
No Safety Factors Included**

Cat. No.	Class 4	Class 5	Class 6	Class 7
4345*	6000	4500	3000	1500
6346*	8500	6500	5000	2500
816*	.....	8000	6500	3500
10146	.....	10000	8000	4500
10148	.....	12500	10000	6000
15148	.....	16500	13500	9000

*For Thimbleye rod, add suffix - 1.

THE 8-WAY EXPANDING ANCHOR



The Chance 8-way steel expanding anchor has eight steel blades that expand to form a cone shaped square. They distribute the load evenly all the way around the anchor. There are no non-holding areas between blades. The construction of the anchor is sturdy but simple. There are no hinges, moving parts, or mechanical devices to hinder its smooth operation. A nut retainer on the base helps in pushing the anchor down into the hole and reinforces the base plate. Anchors

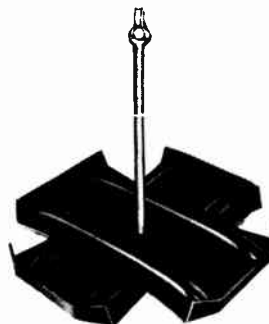
are coated with a special asphalt paint to protect them during handling and to guard against corrosive conditions when installed.

Cat. No.	Hole Size In.	Area Sq. In.	Rod Dia. In.	Approx. Wt. Lbs. Per 100	Each
6860	6	60	1/2 5/8	431	\$ 1.54
6870	6	70	1/2 5/8	509	1.72
88100	8	100	5/8 3/4	890	2.35
88115	8	115	5/8 3/4	895	2.42
88135	8	135	5/8 3/4	953	2.48
88135-1	8	135	1	953	2.48
1082	10	200	1	1821	4.61
1082-3/4	10	200	3/4	1821	4.61
1283	12	300	1 1/4	.....	10.30
1283-1	12	300	1	.....	10.30

**Ultimate Soil-Anchor Holding Strength - Pounds
No Safety Factors Included**

Cat. No.	Class 3	Class 4	Class 5	Class 6	Class 7
6860	10000	8500	7000	5500	4000
6870	16000	14000	11000	8500	5000
88100	22000	18500	15000	13000	8000
88115	24500	20500	17000	14000	9000
88135	26500	22000	18500	15000	10000
1082	31000	26500	21000	16500	12000
1283	40000	34000	26500	21500	16000

CROSS PLATE ANCHOR



Formed of two structural steel plates, heavily ribbed reinforced, the Chance cross plate anchor speeds up big line construction jobs as it is easily installed in either diagonal or vertical holes bored by a mechanical digger.

Cat. No.	Hole Size In.	Area Sq. In.	Rod Dia. In.	Approx. Wt. Lbs. Per 100	Each
X16	16	150	5/8 3/4	992	\$ 2.68
X20	20	250	5/8 3/4	1631	4.00
X20-1	20	250	1	1631	4.00
X24-3/4	24	400	3/4 1	3335	7.61
X24	24	400	1	3335	7.61
X24-1	24	400	1 1/4	3335	7.61

**Ultimate Soil-Anchor Holding Strength - Pounds
No Safety Factors Included**

Cat. No.	Class 3	Class 4	Class 5	Class 6	Class 7
X16	26500	22500	18500	14500	9500
X20	34000	29000	24000	19000	14000
X24	45000	37000	30000	23500	18000

CHANCE NEVER CREEP ANCHORS



Chance Never Creep anchors hold against solid undisturbed earth. Installation method consists of boring a hole at a 45° to 60° angle with the ground line boring toward the pole to be guyed, driving the rod at right angles to the pole and hanging the blade on the ball point of the rod. Dipped in asphalt paint, order rods separately.

Cat. No.	Size of Anchor In.	Area Sq. In.	Rod Lgth. Ft.	Approx. Wt. Lbs. Per 100	Each
617	6 x 17	102	7	808	\$ 2.55
622	6 x 22	132	8	1064	3.50
822	8 x 22	176	8	1563	4.55
827	8 x 27	216	8	1743	5.00
835S	8 x 35	280	8	3383	10.45
1040S	10 x 40	400	8	4700	14.25

Ultimate Soil-Anchor Holding Strength — Pounds No Safety Factors Included

Cat. No.	Class 3	Class 4	Class 5	Class 6	Class 7
617	21500	18500	14500	11500	7500
622	25000	21500	17500	13500	9500
822	30000	26000	20500	16000	11500
827	34000	29000	23500	18500	13500
835S	41000	34500	27500	22000	16500
1040S	50000	43000	34000	27500	21000

STEEL CONE ANCHOR



Chance 8-way steel cone anchors are made of dropped forged steel, asphalt dipped. The eight faces form a flat wedge against tamped rock. Flaring base adds to wedging action.

Ultimate Soil-Anchor Holding Strength — Pounds No Safety Factors Included

Cat. No.	Class 2	Class 3	Class 4	Class 5
6S	Rod	1000	8000	6000
8S	Rod	14000	11000	9000
10S	Str.	19000	15000	11500
12S	Str.	21500	17500	14000
16S		31000	25000	20000
19S		38500	31000	25000
23S		47500	38000	30500

Cat. No.	Area Sq. In.	Anchor Size In.	Rod Dia. In.	Wt. Lbs. Per 100	Each
6S	37	6	1/2	177	\$ 1.10
8S	63	8	5/8	283	1.45
10S	104	10	5/8	413	2.50
12S	132	12	5/8	631	3.45
16S	239	16	3/4	1730	7.00
16S-1	239	16	1	1730	7.00
19S*	336	19	1	5530	19.80
23S*	467	23	1 1/4	7408	28.95

*Cast Cones.

EVERSTICK EXPANDING ANCHORS



Easy to install. Drop anchor in hole and expand by striking with tamping bar. For use with standard galvanized anchor rods.

CHANCE EXPANDING ROCK ANCHOR



Chance rock anchors are designed to expand and hold firmly against the sides of a drilled hole 1/8" to 1/4" larger than the closed anchor. Once expanded the pull on the rod tends to wedge the anchor tighter against the edge of the hole. These anchors provide a method for guying in solid rock without the need for concrete or lead grouting. The anchor is malleable iron, dipped in corrosion resistant asphalt paint. Rods are drop forged steel with large triplex to accommodate bar for wrench in expanding the anchor. This eye will accept one to three guy strands. Holding power limited to rod strength of 25,000 pounds.

Cat. No.	Rod Dia. In.	Rod Lgth. In.	Anchor Size In.	Anchor Fully Exp. In.	Hole Size In.	Each
R315	3/4	15	1 3/4	2 3/8	1 7/8	\$ 4.25
R330	3/4	30	1 3/4	2 3/8	1 7/8	4.80
R353	3/4	53	1 3/4	2 3/8	1 7/8	5.35
R360	3/4	60	1 3/4	2 3/8	1 7/8	5.90
R372	3/4	72	1 3/4	2 3/8	1 7/8	6.30
R384	3/4	84	1 3/4	2 3/8	1 7/8	6.65
R396	3/4	96	1 3/4	2 3/8	1 7/8	6.85
R115L	1	15	2 1/4	3 1/8	2 3/8	6.35
R130L	1	30	2 1/4	3 1/8	2 3/8	7.15
R153L	1	53	2 1/4	3 1/8	2 3/8	8.15
R172L	1	72	2 1/4	3 1/8	2 3/8	9.05
R184L	1	84	2 1/4	3 1/8	2 3/8	9.70
R196L	1	96	2 1/4	3 1/8	2 3/8	10.55

EPOXIGLAS STRAIN INSULATORS



Epoxiglas insulating materials are used with malleable iron end fittings to achieve a strain insulator of uniform strength and better electrical characteristics. Rods are gray in color.

Nos.*	Min. Ult. Lb. Strength	End Fittings	Approx. Wt. Per 100 Lbs.	Each
16941-25	16,000	Clevis	350	\$ 6.75
16941-35	16,000	Clevis	387	7.60
16941-54	16,000	Clevis	431	9.05
16941-78	16,000	Clevis	500	11.15
16934-35	21,000	Clevis	413	9.50
16934-54	21,000	Clevis	462	10.75
16934-78	21,000	Clevis	531	12.50
16935-35	30,000	Clevis	643	11.00
16935-54	30,000	Clevis	719	12.65
16935-78	30,000	Clevis	810	14.25
16957-54	50,000	Clevis	2730	33.30
16957-58	50,000	Clevis	2850	37.50
16957-96	50,000	Clevis	2906	40.10

*Add Suffix "R" for 1 Roller and "R2" for 2 Rollers.

Two-Way Anchors

Cat. No.	Size In.	Max. Rod Size In.	Expanded Area Sq. In.	Watts	Each
62	6	5/8	55	680	\$2.50

Three-Way Anchors

633	6	5/8	65	810	3.10
834	8	5/8	90	1100	4.30
836	8	3/4	110	1400	5.00
8310	8	3/4	125	1550	5.25
10316	10	1	175	2700	9.40

Four-Way Anchors

84-3/4	8	3/4	125	1610	6.15
84-3/4-1	8	1	132	1680	6.15
104	10	1	210	2910	10.60
124	12	1 1/4	310	5000	16.35

ALUMOWELD STRAND



Alumoweld Guy and Messenger Strand is designed to last as long as the pole it guys or the cable it supports. Each wire of this low-cost strand has a thick aluminum covering inseparably welded to the strong steel core, giving

Alumoweld the same permanent protection against corrosion as solid aluminum wire.

Alumoweld is as strong as steel, weighs 15% less, and lasts far longer. It's easy to handle, easy to install.

**Table of Characteristics
Alumoweld Strand**

No. and Size of Wires	Nominal Diameter Inch	Breaking Load Lbs.	Weight		Resistance Ohms per 1000 Ft. at 68°F.	Cross-Section	
			Lbs. per 1000 Ft.	Lbs. per Mile		Cir. Mils	Sq. In.
37 No. 5 Awg	1.27	142,800	2,802	14,800	.04247	1,225,000	.9619
37 No. 6 Awg	1.13	120,200	2,222	11,730	.05356	971,300	.7629
37 No. 7 Awg	1.01	100,700	1,762	9,305	.06754	770,300	.6050
37 No. 8 Awg	.899	84,200	1,398	7,379	.08516	610,900	.4798
37 No. 9 Awg	.801	66,770	1,108	5,852	.1074	484,400	.3805
37 No. 10 Awg	.713	52,950	879.0	4,641	.1354	384,200	.3017
19 No. 5 Awg	.910	73,350	1,430	7,552	.08224	628,900	.4940
19 No. 6 Awg	.810	61,700	1,134	5,990	.1037	498,800	.3917
19 No. 7 Awg	.721	51,730	899.5	4,750	.1308	395,500	.3107
19 No. 8 Awg	.642	43,240	713.5	3,767	.1649	313,700	.2464
19 No. 9 Awg	.572	34,290	565.8	2,987	.2079	248,800	.1954
19 No. 10 Awg	.509	27,190	448.7	2,369	.2622	197,300	.1549
7 No. 5 Awg	.546	27,030	524.9	2,772	.2264	231,700	.1820
7 No. 6 Awg	.486	22,730	416.3	2,198	.2803	183,800	.1443
7 No. 7 Awg	.433	19,060	330.0	1,743	.3535	145,700	.1145
7 No. 8 Awg	.385	15,930	261.8	1,382	.4458	115,600	.09077
7 No. 9 Awg	.343	12,630	207.6	1,096	.5621	91,650	.07198
7 No. 10 Awg	.306	10,020	164.7	869.4	.7088	72,680	.05708
7 No. 11 Awg	.272	7,945	130.6	689.4	.8938	57,640	.04527
7 No. 12 Awg	.242	6,301	103.6	546.8	1.127	45,710	.03590
3 No. 5 Awg	.392	12,230	224.5	1,186.0	.5177	99,310	.07800
3 No. 6 Awg	.349	10,280	178.1	940.2	.6528	78,750	.06185
3 No. 7 Awg	.311	8,621	141.2	745.6	.8232	62,450	.04905
3 No. 8 Awg	.277	7,206	112.0	591.3	1.038	49,530	.03890
3 No. 9 Awg	.247	5,715	88.81	468.9	1.309	39,280	.03085
3 No. 10 Awg	.220	4,532	70.43	371.8	1.651	31,150	.02446

Modulus of Elasticity: Strand, 23,000,000 Coefficient of Linear Expansion: .0000072 per degree Fahrenheit.

Strand sizes to provide higher strengths can be designed and furnished. In these cases, contact your Copperweld Steel Company representative or Copperweld's Engineering Department at Glassport, Pa.

Packing and Marking

Lengths of strand to be furnished shall be agreed upon at the time of placing individual orders.

When ordered on reels, the material shall be properly packed and lagged to prevent damage to the strand in ordinary handling and transportation. Each reel shall contain one continuous length of strand.

When ordered in coils, each unit of shipment shall be thoroughly wrapped with strong paper, so as to be protected against damage in ordinary handling and transportation.

Reels and coils shall be marked as required by ship-

ping instructions, and in addition, shall include the manufacturer's name, the purchaser's order number, the size, the length and the weight. Coils shall also have a tag inside the wrapping showing the manufacturer's name, the size, the length and the weight.

Orders shall specify whether shipment is desired on reels or in coils. When coil length is not specified, lengths as carried in stock will be furnished. Reel lengths for 3, 7, 19 and 37-wire strands shall be agreed upon at time of placing the order.

Price on Application

CRAPO GALVANIZED STEEL 7 WIRE STRAND

All wire used in forming a particular size and grade of Crapo galvanized steel is produced from steel of selected properties. Scientifically processed under laboratory supervision and galvanized by the Crapo process. Wire and strand subjected to laboratory tests for tensile strength, elongation, galvanizing, ductility and gauge to insure high uniform quality in the finished product.

Furnished in the following standard lengths: $\frac{3}{8}$ -in. diameter and smaller in 250, 500 and 1,000-ft. coils and 2,500 and 5,000-ft. reels; $\frac{7}{8}$ -in. diameter and larger in 250 and 500-ft. coils and 1,000, 2,500 and 5,000-ft. reels. When ordering specify size and grade, method of packing (coils or reels) and number of feet per coil or reel.

Available in Class A, B, and C galvanized coatings (in sizes and grades below):



**UTILITIES — SPECIFICATION GRADE
UTILITIES GRADE
WESTERN UNION — A.T.&T.
ASTM A 475 Latest Revision**

Strand Size Inches	Nominal Wire Diameter Inches	Minimum Breaking Strength Lbs.	Approximate Weight Lbs./M Feet	Consumers NET Price Per 1000 Feet			
				Col. 1 9999 Ft. and Less	Col. 2 10,000 to 74,999 Ft. or 19,999 Lbs.	Col. 3 75,000 Ft. or 20,000 Lbs. to 39,999 Lbs.	Col. 4 40,000 Lb. Carload and Over
Class A Coating							
$\frac{3}{8}$ (2200 Lb.)	.065	2400	80.3	\$ 27.86	\$ 26.75	\$ 23.96	\$ 22.29
$\frac{3}{8}$ (4000 Lb.)	.093	4600	164	44.40	42.62	38.18	35.52
$\frac{7}{8}$ (6000 Lb.)	.109	6000	225	59.16	56.80	50.88	47.33
$\frac{7}{8}$ (10000 Lb.)	.120	11500	273	73.21	70.28	62.96	58.57
$\frac{7}{8}$ (16000 Lb.)	.145	18000	399	106.41	102.16	91.51	85.13
$\frac{1}{2}$ (25000 Lb.)	.165	25000	517	133.60	128.26	114.90	106.88

**HIGH STRENGTH GRADE-PREFORMED
Class A Coating**

$\frac{3}{8}$	.062	2850	72.9	\$ 26.23	\$ 25.18	\$ 22.55	\$ 20.98
$\frac{1}{4}$	.080	4750	121	38.55	37.01	33.15	30.84
$\frac{5}{8}$	.104	8000	205	57.33	55.03	49.30	45.86
$\frac{3}{8}$	.120	10800	273	73.11	70.19	62.88	58.49
$\frac{7}{8}$	.145	14500	399	100.64	96.61	86.55	80.51
$\frac{1}{2}$	.165	18800	517	126.30	121.25	108.62	101.04
$\frac{5}{8}$	.207	29600	813	206.06	197.82	177.21	164.85

**EXTRA HIGH STRENGTH GRADE-PREFORMED
Class A Coating**

$\frac{3}{8}$	.062	3990	72.9	\$ 27.29	\$ 26.20	\$ 23.47	\$ 21.83
$\frac{1}{4}$	.080	6650	121	40.33	38.71	34.68	32.26
$\frac{5}{8}$	.104	11200	205	60.33	57.91	51.88	48.26
$\frac{3}{8}$	.120	15400	273	77.21	74.12	66.40	61.77
$\frac{7}{8}$	.145	20800	399	106.30	102.05	91.42	85.04
$\frac{1}{2}$	.165	26900	517	133.86	128.51	115.12	107.09

CRAPO MID-SPAN TRANSPOSITION BRACKETS



Designed and developed specifically for use on insulated wires with four inch or greater spacing this bracket is made of durable weather-resistant plastic and is easily installed over regular plastic vibration dampers without the use of special tools or equipment. These brackets give increased fidelity of transmission by minimizing cross talk and other objectionable noise from outside interference.

Cat. No.	Description	Each
TB-102	Mid-Span Transposition Bracket	\$6.05



Combination Transposition Unit designed as either span or cross arm type for 8" spacing of bare open wire, physical or carrier circuits, can be easily thrown left over right or right over left. Light weight reduces sag and eliminates glass insulators avoiding accidental breakage or vandalism. High strength bracket can be used on new long span construction.

Cat. No.	Description	Each
TB-104	Mid-Span Transposition Bracket	\$7.25

CRAPO TELEPHONE LINE WIRE

High-Tensile Steel

These high-tensile, low-resistance telephone line wires make possible longer-span, lower-cost construction on new lines; provide stronger spans, with lower maintenance expense, on present lines.

Galvanized by the Crapo Process, which produces a heavy, dense, uniform coating of zinc that adheres tenaciously to the wire and provides dependable protection against corrosion.

HTL-85, HTL-135 and HTL-195 furnished in 1/2 mile coils without splices or joints. Galvanized steel compression-type sleeves are recommended for splicing these wires.



Crapo HTL-85

Used extensively for both new construction and for replacement. When used on existing pole structures it tends to increase strength of line, lessens hazard of ice and wind, minimizes service interruptions and reduces maintenance costs. No. 12 B.W.G. size makes possible spans of 210 ft. in heavy loading, 330 ft. in medium loading, and 440 ft. in light loading districts.

Size B.W.G.	Nominal Diam., In.	Approx. Wt. Per Mile Lbs.	Minimum Breaking Strength Lbs.	Resistance Per Mile Ohms	Per 100 Lbs.
9	.148	314	1462	18.47	\$17.83
10	.134	258	1199	22.45	18.25
12	.109	170	793	34.12	18.47
14	.083	99	460	58.59	19.87

Crapo HTL-135

Possesses two and one-half times the strength of standard B.B. wire; makes possible spans of 350 feet in heavy loading districts, 540 feet in medium loading districts, and 650 feet in light loading districts. The effective resistance at voice frequencies with currents of voice frequency magnitude is superior to that of the older grade.

Size B.W.G.	Nominal Diam., In.	Approx. Wt. Per Mile Lbs.	Minimum Breaking Strength Lbs.	Resistance Per Mile Ohms	Per 100 Lbs.
12	.109	170	1213	38.23	\$19.49

Crapo HTL-195 — Extra High-Tensile Lower Resistance Line Wire

Provides a combination of telephonic transmission qualities and physical strength never before attained in a galvanized steel telephone wire. Makes possible spans to 600 feet in Heavy, 650 feet in Medium and 700 feet in Light Loading Districts. Superior voice transmission.

Size B.W.G.	Nominal Diam., In.	Approx. Wt. Per Mile Lbs.	Minimum Breaking Strength Lbs.	Resistance Per Mile Ohms	Per 100 Lbs.
12	.109	170	1800	38.8	\$23.50

CRAPO CABLE LASHING WIRE

Corrosion Resistant Stainless Steel



Crapo

Developed specifically to meet demands for a spinning wire with a high strength to weight ratio and superior resistance to corrosion.

Crapo Type 430 Stainless Steel Cable Lashing Wire, is furnished to the following specifications: .045-in. diameter is furnished primarily for use in Western Electric Type "C" Cable Lasher and in General Machine Products Company's Types "C", "D" and "E"

Lashers. Each coil contains 1200 feet of wire plus or minus 30 feet. Nominal weight per Coil, 6.42 Lbs.

.061-in. diameter in coils designed for tapered or straight hub reels, coil length 735 feet plus or minus 20 feet. Nominal weight per coil, 7.17 pounds.

.065-in. diameter in coils designed for straight hub reels, coil lengths 650 and 450 feet plus or minus 20 feet. Nominal weight per 650 foot coil, 7.25 lbs; 450 foot Coil, 5 lbs.

Crapo Stainless Steel Cable Lashing Wire can also be furnished in Type 302 and Type 316.

Type 430

Catalog Number	Size Inches	Standard Package Feet	Per Coil
45CR1200	.045	1200	\$ 7.06
61CR735	.061	735	10.44
65CR450	.065	450	7.54
65CR650	.065	650	10.44

Galvanized Steel C Coated

Manufactured specially for lashing cable to messenger strand by the modern spinning method. Crapo C Coated Cable Lashing Wire is produced in .091-in. and .061-in. Diameter. Put up in neat compact, thread-lay coils with either straight or tapered arbor holes.

Coil Dimensions: Arbor hole for straight hub, 1 1/4 in. minimum; tapered hub, approx. 2-in. Outside diameter of coil (nominal) 6-in.; width nominal 1 1/2-in. Length of wire in coil: size .091-in., 325 ft. plus or minus 10 ft.; size .061-in., 650 ft. plus or minus 10 ft. Nominal weight of coil: size .091-in., 7.2 lbs.; size .061-in., 6.45 lbs.

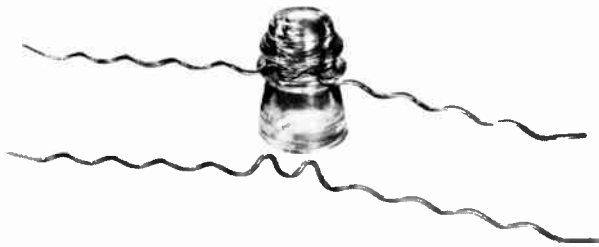
Catalog Number	Size Inches	Standard Package Feet	Per Coil
C-091-S	.091	325	\$2.25
C-091-T	.091	325	2.25
C-061-S	.061	650	2.70
C-061-T	.061	650	2.70

GALVANIZED BB GRADE TELEPHONE WIRE

Size B.W.G.	Nominal Diam., In.	Approx. Wt. Per Mile Lbs.	Minimum Breaking Strength Lbs.	Resistance Per Mile Ohms	Per 100 Lbs.
6	.203	590	1652	9.83	\$17.08
9	.148	314	879	18.47	17.08
10	.134	258	722	22.48	17.48
12	.109	170	476	34.12	17.67
14	.083	99	277	58.59	19.00

INDIANA TELEPHONE ACCESSORIES

CRAPO PRE-TIED SPLINTS



Crapo pre-tied splint, tie wire and insulator can be pre-assembled in the shop or warehouse on production line basis, or on the ground at project site. Insulators with splint attached are then installed on crossarms or brackets.

Painted end of stick is made with left hand spiral, the opposite end with right hand spiral for ease of application. Applied splint grips line wire securely preventing slippage.

Protects line wire against wear and abrasion. Simplifies re-sagging problem. Line wire can be removed, re-sagged, and replaced without disturbing tie wire.

Available in galvanized steel for use with galvanized line wire and in copper/steel for use with copper/steel or copper line wire. Galvanized steel splints are made of spring steel wire with extra heavy Class B zinc coating. Copper/steel splints manufactured from 30% extra high strength copper/steel.

Cat. No.	Pre-Tied Splints For:	Per 100
109PT134	.109" (12BWG) Galv. Steel Line Wire	\$8.10
080PT114	.080" Copper/Steel	7.60
102PT128	.102" or .104" Copper/Steel	8.85

CRAPO DOUBLE V TIE SPLINTS

These splints are available in galvanized steel for use with galvanized line wire and in copper/steel for use with copper/steel or copper line wire. The steel splints are made of spring steel wire with extra-heavy Class "C" galvanized coating. The copper/steel splints are produced from 40% high strength copper/steel wire.

Cat. No.	Double V Tie Splints For:	Per 100
038VS109	.038" (14BWG) Galv. Steel Line Wire	\$5.90
109VS134	.109" (12BWG) Galv. Steel Line Wire	7.40
134VS134	.134" (10BWG) Galv. Steel Line Wire	8.85
080VC102	.080" Copper/Steel	6.00
102VC102	.102" or .104" Copper/Steel	7.05
128VC128	.128" Copper/Steel	9.85
165VC144	.154" Copper/Steel	13.35

CRAPO SPIRAL TIE SPLINTS

Provide a simple, economical means of reinforcing and protecting telephone line wire from abrasion and wear at the insulator. An important function is to prevent stress concentration at points of support and reduce the possibility of failure due to vibration. The splints are preformed from spring steel wire. Especially designed for long span construction.

Cat. No.	Spiral Tie Splints For:	Per 100
134SP136	.134" (10BWG) Galv. Steel Line Wire	\$6.60
109SP109	.109" (12BWG) Galv. Steel Line Wire	4.80
83SP94	.083" (14BWG) Galv. Steel Line Wire	3.50

CRAPO TANGENT SUPPORTS FOR "C" RURAL WIRE



Preformed from tough, springy, corrosion-resistant stainless steel wire, and coated with neoprene. Provides the simplest and most effective method of suspending plastic-coated one-pair parallel telephone wire.

The support is formed from a large, single stainless steel wire (.109" dia.) with a nominal length of 14". The oval-shaped spirals conform to the shape of the conductor and provide a closer, more uniform gripping action.

The reinforced loop in the center of the support is made with two complete turns of the .109" diameter wire. The eye makes it possible to attach the support to the pole easily and quickly with a drive hook.

Specially designed for use with the following plastic-coated one-pair rural telephone distribution wires of copper/steel or galvanized steel.

Cat. No.	Standard Support For:	Each
064CRW109	2/14 AWG (.064") Copper/Steel	\$0.33
080CRW109	2/12 AWG (.080") Copper/Steel	.34
083CRW109	2/14 BWG (.083") Galv. Steel	.34

CRAPO LONG NECK SUPPORT

For attaching second parallel pair to hook, or other support, already holding one-pair parallel wire. Designed like the regular Tangent Support except for extending neck measuring 4 3/4".

Cat. No.	Long Neck Support For:	Each
064LN109	2/14 AWG (.064") Copper/Steel	\$0.40
080LN109	2/12 AWG (.080") Copper/Steel	.41
083LN109	2/14 BWG (.083") Galv. Steel	.41

CRAPO UNDER ARM SUPPORT

This unique support for plastic-coated one-pair parallel telephone wire is designed to straddle a standard 3 1/4" x 4 1/4" cross-arm. Used primarily to add a circuit to existing lines. A short section of plastic tubing usually is used to protect the wire under the cross-arm.

Cat. No.	Under Arm Support For:	Each
064UA134	2/14 AWG (.064") Copper/Steel	\$0.45
080UA134	2/12 AWG (.080") Copper/Steel	.45
083UA134	2/14 BWG (.083") Galv. Steel	.45

CRAPO DEAD-ENDS FOR "C" RURAL WIRE

Designed specifically to hold the rated breaking strength of one-pair parallel rural telephone distribution wire with high density linear polyethylene coating. The dead-end consists of two pieces of tough, springy, corrosion-resistant stainless steel wire formed into hair-pin shaped sections. Each of the four spiraled legs is coated with neoprene to increase friction and reduce the possibility of slippage.

The preformed spirals are oval-shaped to conform to the oval shape of the conductor. The extra length of the dead-end tends to distribute the load over a greater area and reduce stress.

Cat. No.	Dead-Ends For:	Each
DE-064	2/14 AWG (.064") Copper/Steel	\$0.69
DE-080	2/12 AWG (.080") Copper/Steel	.77
DE-083	2/14 BWG (.083") Galv. Steel	.77

AWAC ALUMOWELD-ALUMINUM CONDUCTORS



Combining the best properties of Alumoweld and aluminum wires, AWAC conductors have the highest strength of any aluminum-type conductor. Since the Alumoweld wires also have the corrosion resistance of pure aluminum, they can safely be used in exterior as well as interior positions in the strand to provide a wider range of strengths and conductances. In AWAC all wire surfaces are aluminum and completely compatible with each other, assuring a conductor that is always strong and safe.

AWAC permits you to design longer, stronger spans with savings on poles, accessories, and construction costs.

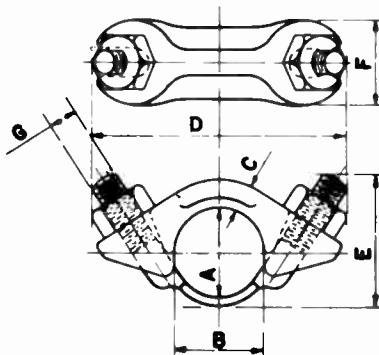
For information on larger sizes contact your nearest Graybar office.

AWAC Power Conductors

AWAC Designation Awg. or Cir. Mils	Max. D.C. Resistance at 20° C. ohms per 1,000 Feet	Ultimate Strength Pounds	Weight—Pounds		
			Total	Per 1,000 Feet Aluminum	Alumoweld
No. 4-6/1	.4068	1,783	52.4	37.4	15.0
No. 4-5/2	.4047	2,830	69.7	35.3	34.4
No. 4-4/3	.4047	4,305	92.4	32.7	59.7
No. 4-3/4	.4047	6,325	123.7	29.1	94.6
No. 4-2/5	.4047	9,314	169.4	23.9	145.5
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No. 3-6/1	.3227	2,228	66.1	47.2	18.9
No. 3-5/2	.3211	3,551	87.8	44.5	43.3
No. 3-4/3	.3211	5,397	116.5	41.2	75.3
No. 3-3/4	.3211	7,966	155.9	36.7	119.2
No. 3-2/5	.3211	11,730	213.5	30.1	183.4
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No. 2-6/1	.2558	2,760	83.3	59.5	23.8
No. 2-7/1	.2558	3,501	93.8	58.3	35.5
No. 2-5/2	.2546	4,436	110.8	56.1	54.7
No. 2-4/3	.2546	6,785	146.9	51.9	95.0
No. 2-3/4	.2546	9,793	196.6	46.3	150.3
No. 2-2/5	.2546	14,060	269.3	38.0	231.3
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No. 1-6/1	.2029	3,450	105.1	75.1	30.0
No. 1-5/2	.2019	5,539	139.7	70.7	69.0
No. 1-4/3	.2019	8,344	185.3	65.5	119.8
No. 1-3/4	.2019	11,740	247.9	58.3	189.6
No. 1-2/5	.2019	16,800	339.6	47.9	291.7
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No. 1/0-6/1	.1608	4,246	132.6	94.7	37.9
No. 1/0-5/2	.1600	6,712	176.1	89.2	86.9
No. 1/0-4/3	.1600	10,020	233.5	82.6	150.9
No. 1/0-3/4	.1600	14,000	312.6	73.6	239.0
No. 1/0-2/5	.1600	20,030	428.0	60.3	367.7
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No. 2/0-6/1	.1276	5,135	167.1	119.3	47.8
No. 2/0-5/2	.1269	8,040	222.1	112.5	109.6
No. 2/0-4/3	.1269	12,000	294.6	104.2	190.4
No. 2/0-3/4	.1269	16,750	394.3	92.8	301.5
No. 2/0-6/1	.1012	6,305	210.7	150.5	60.2
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No. 3/0-5/2	.1007	9,705	280.6	142.4	138.2
No. 3/0-4/3	.1007	14,380	371.4	131.3	240.1
No. 4/0-6/1	.08024	7,685	265.7	189.8	75.9
No. 4/0-15/4	.08016	10,870	305.4	185.1	120.3

ALCOA ARMOR ROD CLIP

V-BOLT TYPE



Cat. No.	Nominal Wt. Lbs.	O.A. Dia. Accommodated "A" In.		Dimensions, Inches						
		Minimum	Maximum	B	C	D	E	F	G	
1101	0.036	0.401	0.490	0.460	1/4	2	1 1/8	3/4	1/4	
1103	0.044	0.491	0.600	0.610	1/4	2 3/8	1 1/8	3/4	1/4	
1104	0.075	0.601	0.660	0.660	5/8	2 1/2	1 1/8	3/4	5/8	
1105	0.079	0.661	0.760	0.770	5/8	2 3/4	1 5/8	3/4	5/8	
1106	0.085	0.761	0.860	0.870	5/8	2 7/8	1 5/8	3/4	5/8	
1107	0.090	0.861	0.975	0.990	5/8	3 1/8	1 3/4	3/4	5/8	
1108	0.096	0.976	1.115	1.130	5/8	3 1/4	1 7/8	3/4	5/8	
1109	0.18	1.116	1.265	1.280	3/4	3 3/8	2 1/8	1 1/4	3/4	
1110	0.19	1.266	1.440	1.455	3/4	4 1/8	2 1/4	1 1/2	3/4	
1111	0.22	1.441	1.620	1.635	3/4	4 3/8	2 3/8	1 1/2	3/4	
1112	0.22	1.621	1.815	1.830	3/4	4 5/8	2 1/2	1 3/4	3/4	

ALCOA PARALLEL GROOVE CLAMPS



No. 396.6



No. 490.0

Cat. No.	Conductor Range		Nominal Wt. Lbs.
	Run Groove	Tap Groove	
490.0	8W — 2 ACSR	8W — 2 ACSR	.064
395.5	6W — 1/0 ACSR	6W — 1/0 ACSR	.011
396.6	6W — 2/0 ACSR	6W — 2/0 ACSR	.14
392.6	3/0SAC — 397.5	6W — 2/0 ACSR	.31
393.6	397.5 — 795	6W — 2/0 ACSR	.61

The number 390 and 490 series clamps are available prefilled with Alcoa joint compound.

Price on Application

ALCOA CONDUCTOR DIAMETERS FOR USE IN SELECTING ACCESSORIES

ACSR			Stranded aluminum conductor		Round aluminum wire		Stranded copper conductors		Round copper wire		
Size CM or AWG	Stranding		Diameter, inches	Size CM or AWG	Diameter, inches	Size AWG	Diameter, inch	Size CM or AWG	Diameter, inches	Size AWG	Diameter, inch
	Al	S.									
6	6	1	0.198	6	0.184	10	0.101	8	0.146	10	0.101
5	6	1	0.233	4	0.232	9	0.114	7	0.164	9	0.114
4	6	1	0.250	3	0.260	8	0.128	6	0.184	8	0.128
4	7	1	0.257	2	0.292	7	0.144	5	0.206	7	0.144
3	6	1	0.281	1	0.328	6	0.162	4	0.232	6	0.162
2	6	1	0.316	1/0	0.368	5	0.181	*4	0.254	5	0.181
2	7	1	0.325	2/0	0.414	4	0.204	3	0.260	4	0.204
1	6	1	0.355	3/0	0.464	3	0.229	*3	0.286	3	0.229
1/0	6	1	0.398	4/0	0.522	2	0.257	*2	0.292	2	0.257
2/0	6	1	0.447	250,000	0.575	1	0.289	*2	0.320	1	0.289
3/0	6	1	0.502	266,800	0.593	1/0	0.324	1	0.328	1/0	0.324
4/0	6	1	0.563	300,000	0.629	2/0	0.364	*1	0.360	2/0	0.364
266,800	18	1	0.609	336,400	0.666			1/0	0.368	3/0	0.409
266,800	6	7	0.633	350,000	0.681			‡1/0	0.390	4/0	0.460
266,800	26	7	0.642	397,500	0.724			2/0	0.414		
300,000	26	7	0.680	400,000	0.728			‡2/0	0.438		
336,400	18	1	0.684	450,000	0.772			3/0	0.464		
336,400	26	7	0.721	477,000	0.795			‡3/0	0.492		
336,400	30	7	0.741	500,000	0.813			4/0	0.522		
397,500	18	1	0.743	550,000	0.855			‡4/0	0.552		
397,500	26	7	0.783	556,500	0.858			250,000	0.575		
397,500	30	7	0.806	600,000	0.893			‡250,000	0.600		
477,000	18	1	0.814	636,000	0.918			300,000	0.630		
477,000	24	7	0.846	650,000	0.929			‡300,000	0.657		
477,000	26	7	0.858	700,000	0.964			350,000	0.681		
477,000	30	7	0.883	715,500	0.975			‡350,000	0.710		
556,500	18	1	0.879	750,000	0.998			400,000	0.728		
556,500	24	7	0.914	795,000	1.028			450,000	0.772		
556,500	26	7	0.927	800,000	1.031			500,000	0.813		
556,500	30	7	0.953	874,500	1.078			550,000	0.855		
605,000	24	7	0.953	900,000	1.094			600,000	0.893		
605,000	26	7	0.966	954,000	1.126			650,000	0.929		
605,000	30	19	0.994	1,000,000	1.152			700,000	0.964		
636,000	36	1	0.930	1,033,500	1.172			750,000	0.998		
636,000	24	7	0.977	1,100,000	1.209			800,000	1.031		
636,000	26	7	0.990	1,113,000	1.216			850,000	1.062		
636,000	30	19	1.019	1,192,500	1.258			900,000	1.094		
666,600	24	7	1.000	1,200,000	1.263			950,000	1.123		
715,500	54	7	1.036	1,250,000	1.289			1,000,000	1.152		
715,500	26	7	1.051	1,272,000	1.300			1,250,000	1.289		
715,500	30	19	1.081	1,300,000	1.315			1,500,000	1.412		
795,000	36	1	1.040	1,351,500	1.340			1,750,000	1.536		
795,000	45	7	1.063								
795,000	54	7	1.093	1,400,000	1.364						
795,000	26	7	1.108	1,431,000	1.379						
795,000	30	19	1.140	1,500,000	1.412						
874,500	54	7	1.146	1,510,500	1.417						
900,000	54	7	1.162	1,590,000	1.454						
954,000	45	7	1.165	1,600,000	1.459						
954,000	54	7	1.196	1,700,000	1.504						
1,033,500	45	7	1.213	1,750,000	1.526						
1,033,500	54	7	1.246	1,800,000	1.548						
1,113,000	45	7	1.259	1,900,000	1.590						
1,113,000	54	19	1.293	2,000,000	1.632						
1,192,500	45	7	1.302								
1,192,500	54	19	1.338								
1,272,000	45	7	1.345								
1,272,000	54	19	1.382								
1,351,500	45	7	1.386								
1,351,500	54	19	1.424								
1,431,000	45	7	1.427								
1,431,000	54	19	1.465								
1,510,500	45	7	1.466								
1,510,500	54	19	1.506								
1,590,000	45	7	1.502								
1,590,000	54	19	1.545								
1,780,000	84	19	1.602								

Price on Application

ALCOA ACCESSORY CATALOG NUMBERS

Code word	Size cm or AWG	ACSR			Bolted dead ends				Twisting joint		Tubular compression accessories										
		Stranding		Conductor diameter, inch	Snubbing	Loop	Thimble	Straight	Joint	Wrench	Dead end assembly			Joint assembly		Tap (bolted branch)	Tap (compression branch)	Repair sleeve	Jumper connector	Terminal connectors	
		Al.	St.								Single tongue	Double tongue	Steel clevis end	Jumper terminal	Aluminum sleeve						Steel sleeve
Swan	4	6	1	0.250	301	411	782	221	544	544	.....	.....	.....	.....	1472.1	472.2	.....	.....	.....	372.1	.....
Swanate	4	7	1	0.257	301	441	782	221	544	544	.....	.....	.....	.....	1472.1	472.2	.....	.....	.....	372.1	.....
Sparrow	2	6	1	0.316	301	412	782	221	542	542	.....	.....	.....	.....	1473.1	473.1	.....	.....	.....	373.1	273.1
Sparate	2	7	1	0.325	301	412	782	221	542	542	.....	.....	.....	.....	1473.1	473.2	.....	.....	.....	373.1	273.1
Grouse	80,000	8	1	0.367	.....	.....	782	221	.....	.....	8174.3	8274.3	102.17	5174.1	1474.1	475.1	.....	.....	.....	374.1	274.1
Raven	1/0	6	1	0.398	301	412	782	222	540	540	8174.1	8274.1	100.14	5174.1	1474.1	474.3	1574	174	574	374.1	274.1
Quail	2/0	6	1	0.447	301	413	783	222	529	529	8174.2	8274.2	100.16	5174.2	1474.2	474.2	1574	174	574	374.2	274.2
Pigeon	3/0	6	1	0.502	302	.....	783	222	528	528	8175.1	8275.1	102.17	5175.1	1475.1	475.1	1575	175	575	375.1	275.1
Penguin	4/0	6	1	0.563	302	.....	783	222	527	527	8175.2	8275.2	102.20	5175.2	1475.2	475.2	1575	175	575	375.2	275.2
Waxwing	266,800	18	1	0.609	302	.....	783	223	.....	.....	8176.4	8276.4	101.14	5176.1	1476.4	474.4	1576.1	176.1	576.1	376.4	276.1
Owl	266,800	6	7	0.633	*303	.....	783	223	.....	.....	8176.1	8276.1	103.22	5176.2	1476.1	476.1	1576.1	176.1	576.1	376.2	276.2
Partridge	266,800	26	7	0.642	*303	.....	783	223	.....	.....	8176.1	8276.1	103.25	5176.2	1476.1	476.2	1576.1	176.1	576.1	376.2	276.2
Merlin	336,400	18	1	0.684	303	.....	783	223	.....	.....	8176.5	8276.5	101.14	5176.3	1476.5	474.3	1576.1	176.1	576.1	376.5	276.5
Linnet	336,400	26	7	0.721	*303	.....	783	223	.....	.....	8176.3	8276.3	103.28	5176.5	1476.3	476.3	1576.2	176.2	576.2	376.3	276.3
Chickadee	397,500	18	1	0.743	303	.....	.....	223	.....	.....	8176.3	8276.3	101.16	5176.5	1476.3	474.2	1576.2	.....	.....	376.3	276.5
3/8 S.G.W.	.....	.....	7 or 3	0.312	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4620.10	.....	.....	.....	.....	.....	.....
3/4 S.G.W.	.....	.....	7 or 3	0.360	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4620.12	.....	.....	.....	.....	.....	.....

*Holding values are less than 95% of the rated conductor strength.

Code word	Size cm or AWG	ACSR Stranding		Model 12A		Tie wire size AWG	Armor rods and accessories								Come-alongs						
		Al.	St.	For Al	For Steel		Straight				Tapered										
							Rods for single support	Rods for double support	Armor rod clip	Wrench frame size	Wrench die	Rods for single support	Rods for double support	Armor rod clip		Armor rod clamp	Wrench frame size	Wrench die			
Swan	4	6	1	B72AH	B72SH	6	1124	1154	1103	E or C	4203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Swanate	4	7	1	B72AH	B72SH	6	1124	1154	1103	E or C	4203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sparrow	2	6	1	B73AH	B73SH	6	1126	1156	1103	D or C	4205	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sparate	2	7	1	B73AH	B73SH	6	1126	1156	1103	D or C	4205	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grouse	80,000	8	1	B74AH	B75SH	.....	1185.1	.....	1105	D or C	4207	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raven	1/0	6	1	B74AH	B74SH	6	1128.1	1158.1	1105	D or C	4207	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quail	2/0	6	1	B74AH	B74SH	4	1129	1159	1105	C	4225	1241	1104	1312.0	C	4207	3051	.....	.....	.....	.....
Pigeon	3/0	6	1	B75AH	B75SH	4	1130	1160	1106	C	4225	1245	1295	1105	1312.0	C	4209	3052	.....	.....	.....
Penguin	4/0	6	1	B75AH	B75SH	4	1131	1161	1107	C	4225	1249	1299	1106	1312.4	C	4209	3055	.....	.....	.....
Waxwing	266,800	18	1	B76AH	B74SH	4	1174	1194	1108	C	4225	1251	1106	1312.6	C	4210	3057	.....	.....	.....	.....
Owl	266,800	6	7	B76AH	B76SH	4	.....	.....	.....	.....	.....	.....	1253	.....	1106	1312.7	C	4210	3058	.....	.....
Partridge	266,800	26	7	B76AH	B76SH	4	.....	.....	.....	.....	.....	.....	1253	.....	1106	1312.7	C	4210	3060	.....	.....
Merlin	336,400	18	1	B76AH	B74SH	4	1175	1195	1108	B	4226	1255	1107	1313.2	B	4211	3061	.....	.....	.....	.....
Linnet	336,400	26	7	B76AH	B76SH	4	.....	.....	.....	.....	.....	.....	1255	.....	1107	1313.4	B	4211	3062	.....	.....
Chickadee	397,500	18	1	B76AH	B74SH	4	1176	1196	1108	B	4227	1258	1108	1313.5	B	4211	3063	.....	.....	.....	.....
3/8 S.G.W.	.....	.....	7 or 3	B20AH	B10SH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3/4 S.G.W.	.....	.....	7 or 3	B20AH	B12SH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Stranded aluminum conductors				Armor rods and accessories								Come-alongs									
Code word	Size cm or AWG	Stranding	Model 12A dies	Tie wire size AWG	Straight				Tapered												
					Rods for single support	Rods for double support	Armor rods clip	Wrench frame size	Wrench die	Rods for single support	Armor rods clip		Armor rods clamp	Wrench frame size	Wrench die						
Peachbell	6	7	B71AH	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rose	4	7	B71AH	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lily	3	7	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iris	2	7	B72AH	6	1125	1155	1103	C or D	4205	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pansy	1	7	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Poppy	1/0	7	B73AH	6	1185.1	1195.1	1105	C or D	4207	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aster	2/0	7	B74AH	6	1171.1	1191.1	1106	C or D	4207	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Phlox	3/0	7	B74AH	4	1172	1192	1106	C	4225	1242	1104	1312.0	C	4208	3050	.....	.....	.....	.....	.....	.....
Oxlip	4/0	7	B75AH	4	1173	1193	1107	C	4225	1246	1105	1312.3	C	4209	3053	.....	.....	.....	.....	.....	.....
Daisy	266,800	7	B75AH	4	1174	1194	1108	C	4225	1250	1106	1312.5	C	4210	3056	.....	.....	.....	.....	.....	.....
Laurel	266,800	19	B75AH	4	1174	1194	1108	C	4225	1250	1106	1312.5	C	4210	3056	.....	.....	.....	.....	.....	.....
Tulip	336,400	19	B76AH	4	1175	1195	1108	B	4226	1254	1107	1313.1	C	4210	3060	.....	.....	.....	.....	.....	.....
Canna	397,500	19	B76AH	4	1176	1196	1108	B	4227	1258	1107	1313.4	B	4211	3062	.....	.....	.....	.....	.....	.....

Stranded aluminum conductor				Bolted dead ends				Tubular compression accessories									
Code word	Size cm or AWG	Stranding	Conductor diameter, inch	Snubbing	Loop	Thimble	Straight	Dead-end assembly			Joint	Tap (bolted branch)	Tap (compression branch)	Repair sleeve	Jumper connector	Terminal connectors	
								Single tongue	Double tongue	Clevis end							
																	Body	Clevis end	Jumper terminal
Peachbell	6	7	0.184	301	411	.....	221	.....	.....	.....	1371.1	.....	.....	.....	371.1	.....
Rose	4	7	0.232	301	411	782	221	.....	.....	.....	1371.2	.....	.....	.....	371.2	.....
Lily	3	7	0.260	301	411	782	221	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iris	2	7	0.292	301	412	782	221	.....	.....	.....	1372.2	.....	.....	.....	372.2	.....
Pansy	1	7	0.328	301	412	782	221	.....	.....	.....	.....	.....	.....	.....	.....	.....
Poppy	1/0	7	0.368	301	412	782	222	.....	.....	.....	1373.2	.....	.....	.....	373.2	.....
Aster	2/0	7	0.414	301	413	783	222	7174.1	7274.1	A100X	5174.1	1374.1	1574	174	574	374.1	274.1
Phlox	3/0	7	0.464	301	413	783	222	7174.2	7274.2	A100X	5174.2	1374.2	1574	174	574	374.2	274.2
Oxlip	4/0	7	0.522	302	.....	783	222	7175.1	7275.1	A102X	5175.1	1375.1	1575	175	575	375.1	275.1
Daisy	266,800	7	0.586	302	.....	783	223	7175.2	7275.2	A102X	5175.3	1375.2	1575	175	575	375.2	275.2
Laurel	266,800	19	0.593	302	.....	783	223	7175.2	7275.2	A102X	5175.3	1375.2	1575	175	575	375.2	275.2
Tulip	336,400	19	0.666	303	.....	783	223	7176.1	7276.1	A103X	5176.2	1376.1	1576.1	176.1	576.1	376.2	276.2
Canna	397,500	19	0.724	303	.....	783	223	7176.2	7276.2	A103X	5176.4	1376.3	1576.2	176.2	576.2	376.1	276.4

Price on Application

ALCOA ACCESSORY CATALOG NUMBERS

ACCESSORY CATALOG NUMBERS — 336,400 CM ACSR TO 1590,000 CM ACSR AND GROUND WIRES

ACSR				COMPRESSION ACCESSORIES								
Code word	Size CM or AWG	Strands		Conductor diameter, inches	Dead end assembly				Joint assembly		Jumper connector	Terminal connector
		A1	S		Al. dead end bodies		Steel dead end	Jumper terminal	Al. sleeve	Steel sleeve		
					Single tongue	Double tongue						
Linnet	336,400	26	7	0.721	8120.781	8220.781	9110.277	5120.781	8020.781	4010.277	5020.781	5620.781
Oriole	336,400	30	7	0.741	8120.781	8220.781	9110.332	5120.781	8020.781	4010.332	5020.781	5620.781
Chickadee	397,500	18	1	0.743	8120.781	8220.781	9174.160	5120.781	8020.781	474.2	5020.781	5620.781
Ibis	397,500	26	7	0.783	8120.844	8220.844	9110.302	5120.844	8020.844	4010.302	5020.844	5620.844
Lark	397,500	30	7	0.806	8120.844	8220.844	9112.359	5120.844	8020.844	4012.359	5020.844	5620.844
Pelican	477,000	18	1	0.814	8124.875	8224.875	9175.179	5124.875	8024.875	475.1	5024.875	5624.875
Flicker	477,000	24	7	0.846	8124.906	8224.906	9110.295	5124.906	8024.906	4010.295	5024.906	5624.906
Hawk	477,000	26	7	0.858	8124.906	8224.906	9112.332	5124.906	8024.906	4012.332	5024.906	5624.906
Hen	477,000	30	7	0.883	8124.938	8224.938	9212.397	5124.938	8024.938	4012.397	5024.938	5624.938
Osprey	556,500	18	1	0.879	8124.938	8224.938	9275.188	5124.938	8024.938	475.3	5024.938	5624.938
Parakeet	556,500	24	7	0.914	8124.969	8224.969	9210.316	5124.969	8024.969	4010.316	5024.969	5624.969
Dove	556,500	26	7	0.927	8124.969	8224.969	9212.359	5124.969	8024.969	4012.359	5024.969	5624.969
Eagle	556,500	30	7	0.953	8127.100	8227.100	9314.432	5127.100	8027.100	4014.432	5027.100	5627.100
Peacock	605,000	24	7	0.953	8127.100	8227.100	9212.332	5127.100	8027.100	4012.332	5027.100	5627.100
Squab	605,000	26	7	0.966	8127.100	8227.100	9212.377	5127.100	8027.100	4012.377	5027.100	5627.100
Teal	605,000	30	19	0.994	8127.106	8227.106	9314.441	5127.106	8027.106	4014.441	5027.106	5627.106
Kingbird	636,000	18	1	0.940	8127.100	8227.100	9275.203	5127.100	8027.100	475.2	5027.100	5627.100
Rook	636,000	24	7	0.977	8127.103	8227.103	9212.344	5127.103	8027.103	4012.344	5027.103	5627.103
Grosbeak	636,000	26	7	0.990	8127.103	8227.103	9212.386	5127.103	8027.103	4012.386	5027.103	5627.103
Egret	636,000	30	19	1.019	8127.106	8227.106	9314.453	5127.106	8027.106	4014.453	5027.106	5627.106
Flamingo	666,600	24	7	1.000	8127.106	8227.106	9212.351	5127.106	8027.106	4012.351	5027.106	5627.106
Crow	715,500	54	7	1.036	8130.109	8230.109	9312.359	5130.109	8030.109	4012.359	5030.109	5630.109
Starling	715,500	26	7	1.051	8130.109	8230.109	9314.406	5130.109	8030.109	4014.406	5030.109	5630.109
Redwing	715,500	30	19	1.081	8130.112	8230.112	9316.500	5130.112	8030.112	4016.500	5030.112	5630.112
Coot	795,000	36	1	1.040	8130.109	8230.109	9374.160	5130.109	8030.109	474.2	5030.109	5630.109
Tern	795,000	45	7	1.063	8130.112	8230.112	9310.277	5130.112	8030.112	4010.277	5030.112	5630.112
.....	795,000	48	7	1.073	8130.112	8230.112	9310.316	5130.112	8030.112	4010.316	5030.112	5630.112
Condor	795,000	54	7	1.093	8130.116	8230.116	9312.386	5130.116	8030.116	4012.386	5030.116	5630.116
Drake	795,000	26	7	1.108	8130.116	8230.116	9314.432	5130.116	8030.116	4014.432	5030.116	5630.116
Mallard	795,000	30	19	1.140	8130.122	8230.122	9416.516	5130.122	8030.122	4016.516	5030.122	5630.122
Crane	874,500	54	7	1.146	8130.122	8230.122	9412.397	5130.122	8030.122	4012.397	5030.122	5630.122
Canary	900,000	54	7	1.162	8130.122	8230.122	9414.406	5130.122	8030.122	4014.406	5030.122	5630.122
Rail	954,000	45	7	1.165	8130.122	8230.122	9410.309	5130.122	8030.122	4010.309	5030.122	5630.122
.....	954,000	48	7	1.175	8130.125	8230.125	9412.344	5130.125	8030.125	4012.344	5030.125	5630.125
Cardinal	954,000	54	7	1.196	8130.125	8230.125	9414.422	5130.125	8030.125	4014.422	5030.125	5630.125
Ortolan	1,033,500	45	7	1.213	8134.128	8234.128	9410.316	5134.128	8034.128	4010.316	5034.128	5634.128
.....	1,033,500	48	7	1.223	8134.128	8234.128	9412.359	5134.128	8034.128	4012.359	5034.128	5634.128
Curlwe	1,033,500	54	7	1.246	8134.131	8234.131	9414.432	5134.131	8034.131	4014.432	5034.131	5634.131
Bluejay	1,113,000	45	7	1.259	8134.131	8234.131	9412.332	5134.131	8034.131	4012.332	5034.131	5634.131
.....	1,113,000	48	7	1.279	8134.134	8234.134	9412.377	5134.134	8034.134	4012.377	5034.134	5634.134
Finch	1,113,000	54	19	1.293	8134.138	8234.138	9514.453	5134.138	8034.138	4014.453	5034.138	5634.138
Bunting	1,192,500	45	7	1.302	8134.138	8234.138	9512.344	5134.138	8034.138	4012.344	5034.138	5634.138
.....	1,192,500	48	7	1.313	8134.138	8234.138	9512.386	5134.138	8034.138	4012.386	5034.138	5634.138
Grackle	1,192,500	54	19	1.338	8136.141	8236.141	9514.469	5136.141	8036.141	4014.469	5036.141	5636.141
Bittern	1,272,000	45	7	1.345	8136.141	8236.141	9512.351	5136.141	8036.141	4012.351	5036.141	5636.141
.....	1,272,000	48	7	1.357	8136.144	8236.144	9512.397	5136.144	8036.144	4012.397	5036.144	5636.144
Pheasant	1,272,000	54	19	1.382	8136.144	8236.144	9616.500	5136.144	8036.144	4016.500	5036.144	5636.144
Dipper	1,351,500	45	7	1.386	8136.147	8236.147	9612.368	5136.147	8036.147	4012.368	5036.147	5636.147
.....	1,351,500	48	7	1.399	8136.147	8236.147	9614.413	5136.147	8036.147	4014.413	5036.147	5636.147
Martin	1,351,500	54	19	1.424	8138.150	8238.150	9616.500	5138.150	8038.150	4016.500	5038.150	5638.150
Bobolink	1,431,000	45	7	1.427	8138.150	8238.150	9612.377	5138.150	8038.150	4012.377	5038.150	5638.150
.....	1,431,000	48	7	1.439	8138.150	8238.150	9614.422	5138.150	8038.150	4014.422	5038.150	5638.150
Plover	1,431,000	54	19	1.465	8138.153	8238.153	9616.516	5138.153	8038.153	4016.516	5038.153	5638.153
Nuthatch	1,510,500	45	7	1.466	8138.153	8238.153	9612.386	5138.153	8038.153	4012.386	5038.153	5638.153
.....	1,510,500	48	7	1.480	8138.156	8238.156	9614.432	5138.156	8038.156	4014.432	5038.156	5638.156
Parrot	1,510,500	54	19	1.506	8140.159	8240.159	9616.531	5140.159	8040.159	4016.531	5040.159	5640.159
Lapwing	1,590,000	45	7	1.502	8140.159	8240.159	9612.397	5140.159	8040.159	4012.397	5040.159	5640.159
Falcon	1,590,000	54	19	1.545	8140.162	8240.162	9718.546	5140.162	8040.162	4018.546	5040.162	5640.162
Petrel	101,800	12	7	0.461	8320.500	.....	9110.295	5174.2	8420.500	4010.295	.....	.....
Minorca	110,800	12	7	0.481	8320.531	.....	9110.302	5174.3	8420.531	4010.302	.....	.....
Leghorn	134,600	12	7	0.530	8324.562	.....	9112.332	5175.1	8424.562	4012.332	.....	.....
Guinea	159,000	12	7	0.576	8324.625	.....	9112.368	5175.2	8424.625	4012.368	.....	.....
Dotterel	176,900	12	7	0.607	8324.656	.....	9112.386	5176.1	8424.656	4012.386	.....	.....
.....	183,600	18	12	0.707	8330.750	.....	9316.531	.....	8430.750	4016.531	.....	.....
Dorking	190,800	12	7	0.631	8324.688	.....	9214.406	5176.2	8424.688	4014.406	.....	.....
Brahma	203,200	16	19	0.714	8330.750	.....	9316.516	5176.4	8430.750	4016.516	.....	.....
Cochin	211,300	12	7	0.663	8324.719	.....	9214.422	5176.3	8424.719	4014.422	.....	.....
9/32S.GW.	.....	.....	7	0.279	4676.9 Complete	.....	.....	.....	4776.9 Complete	.....	.....	.....
5/16S.GW.	.....	.....	7	0.327	4676.10 Complete	.....	.....	.....	4776.10 Complete	.....	.....	.....
5/16S.GW.	.....	.....	7	0.312	4620.10 Complete	.....	.....	.....	4720.10 Complete	.....	.....	.....
3/8S.GW.	.....	.....	7	0.360	4620.12 Complete	.....	.....	.....	4720.12 Complete	.....	.....	.....
7/16S.GW.	.....	.....	7	0.435	4627.14 Complete	.....	.....	.....	4727.14 Complete	.....	.....	.....
1/2S.GW.	.....	.....	7	0.495	4627.16 Complete	.....	.....	.....	4727.16 Complete	.....	.....	.....
1/2S.GW.	.....	.....	7	0.495	4630.16 Complete	.....	.....	.....	4730.16 Complete	.....	.....	.....

Price on Application

ALCOA ACCESSORY CATALOG NUMBERS

ACCESSORY CATALOG NUMBERS — 336,400CM ACSR TO 1,590,000CM ACSR AND GROUND WIRES

Size CM or AWG	ACSR		Compression accessories				Comp. dies		Tapered armor rods	Armor rod clip	Armor rod clamp	Wrench frame size	Armor rod dies	Come- alongs
	Strands		Tee tap	Tee connector		Repair sleeve	For Al.	For St.						
	A1	S.		Closed run	Open run									
336,400	26	7	5320.3	5420.781-20.781	5520.3-20.781	5220.3	20AH	10SH	1258	1107	1313.4	B	4211	3062
336,400	30	7	5320.3	5420.781-20.781	5520.3-20.781	5220.3	20AH	10SH	1258	1108	1313.4	B	4211	3063
397,500	18	1	5320.3	5420.781-20.781	5520.3-20.781	5220.3	20AH	74SH	1258	1108	1313.5	B	4211	3063
397,500	26	7	5320.3	5420.844-20.844	5520.3-20.844	5220.3	20AH	10SH	1260	1108	1314.0	B	4212	3064
397,500	30	7	5320.3	5420.844-20.844	5520.3-20.844	5220.3	20AH	12SH	1261	1108	1314.1	B	4212	3065
477,000	18	1	5324.3	5424.875-24.875	5524.3-24.875	5224.3	24AH	75SH	1262	1108	1314.2	B	4212	3065
477,000	24	7	5324.3	5424.906-24.906	5524.3-24.906	5224.3	24AH	10SH	1263	1108	1314.3	B	4212	3070
477,000	26	7	5324.3	5424.906-24.906	5524.3-24.906	5224.3	24AH	12SH	1264	1109	1314.3	B	4212	3071
477,000	30	7	5324.3	5424.938-24.938	5524.3-24.938	5224.3	24AH	12SH	1265	1109	1314.4	B or BA	4213	3072
556,500	18	1	5324.3	5424.938-24.938	5524.3-24.938	5224.3	24AH	75SH	1264	1109	1314.4	B	4212	3071
556,500	24	7	5324.3	5424.969-24.969	5524.3-24.969	5224.3	24AH	10SH	1266	1109	1314.6	B or BA	4213	3073
556,500	26	7	5324.3	5424.969-24.969	5524.3-24.969	5224.3	24AH	12SH	1266	1109	1314.6	B or BA	4213	3073
556,500	30	7	5327.3	5427.100-27.100	5527.3-27.100	5227.3	27AH	14SH	1267	1109	1315.1	B or BA	4213	3074
605,000	24	7	5327.3	5427.100-27.100	5527.3-27.100	5227.3	27AH	12SH	1267	1109	1315.1	B or BA	4213	3074
605,000	26	7	5327.3	5427.100-27.100	5527.3-27.100	5227.3	27AH	12SH	1268	1110	1315.2	B or BA	4213	3074
605,000	30	19	5327.3	5427.106-27.106	5527.3-27.106	5227.3	27AH	14SH	1269	1110	1315.3	B or BA	4213	3075
636,000	18	1	5327.3	5427.100-27.100	5527.3-27.100	5227.3	27AH	75SH	.....	.....	.....	.....	.....	.....
636,000	24	7	5327.3	5427.103-27.103	5527.3-27.103	5227.3	27AH	12SH	1268	1110	1315.2	BA	4213	3075
636,000	26	7	5327.3	5427.103-27.103	5527.3-27.103	5227.3	27AH	12SH	1269	1110	1315.3	BA	4213	3075
636,000	30	19	5327.3	5427.106-27.106	5527.3-27.106	5227.3	27AH	14SH	1270	1110	1315.4	A or AA	4214	3080
666,600	24	7	5327.3	5427.106-27.106	5527.3-27.106	5227.3	27AH	12SH	1269	1110	1315.3	BA	4213	3075
715,500	54	7	5330.3	5430.109-30.109	5530.3-30.109	5230.3	30AH	12SH	1270	1110	1315.5	A or AA	4214	3081
715,500	26	7	5330.3	5430.109-30.109	5530.3-30.109	5230.3	30AH	14SH	1271	1110	1315.5	A or AA	4214	3081
715,500	30	19	5330.3	5430.112-30.112	5530.3-30.112	5230.3	30AH	16SH	1272	1110	1315.7	A or AA	4214	3082
795,000	36	1	5330.3	5430.109-30.109	5530.3-30.109	5230.3	30AH	74SH	1270	1110	1315.5	A or AA	4214	3081
795,000	45	7	5330.3	5430.112-30.112	5530.3-30.112	5230.3	30AH	10SH	1271	1110	1315.6	A or AA	4214	3082
795,000	48	7	5330.3	5430.112-30.112	5530.3-30.112	5230.3	30AH	10SH	.....	.....	.....	.....	.....	.....
795,000	54	7	5330.3	5430.116-30.116	5530.3-30.116	5230.3	30AH	12SH	1272	1110	1315.7	A or AA	4214	3083
795,000	26	7	5330.3	5430.116-30.116	5530.3-30.116	5230.3	30AH	14SH	1272	1111	317	A or AA	4214	3083
795,000	30	19	5330.3	5430.122-30.122	5530.3-30.122	5230.3	30AH	16SH	1274	1111	317	A or AA	4214	3084
874,500	54	7	5330.3	5430.122-30.122	5530.3-30.122	5230.3	30AH	12SH	1274	1111	317	A or AA	4214	3084
900,000	54	7	5330.3	5430.122-30.122	5530.3-30.122	5230.3	30AH	14SH	1274	1111	317	A or AA	4214	3085
954,000	45	7	5330.3	5430.122-30.122	5530.3-30.122	5230.3	30AH	10SH	1274	1111	317	A or AA	4214	3085
954,000	48	7	5330.3	5430.125-30.125	5530.3-30.125	5230.3	30AH	12SH	.....	.....	.....	.....	.....	.....
954,000	54	7	5330.3	5430.125-30.125	5530.3-30.125	5230.3	30AH	14SH	1275	1111	317	A or AA	4218	3090
1,033,500	45	7	5334.3	5434.128-34.128	5534.3-34.128	5234.3	34AH	10SH	1276	1111	317	A or AA	4216	3091
1,033,500	48	7	5334.3	5434.128-34.128	5534.3-34.128	5234.3	34AH	12SH	.....	.....	.....	.....	.....	.....
1,033,500	54	7	5334.3	5434.131-34.131	5534.3-34.131	5234.3	34AH	14SH	1277	1112	318	A or AA	4216	3092
1,113,000	45	7	5334.3	5434.131-34.131	5534.3-34.131	5234.3	34AH	12SH	1277	1112	318	A or AA	4216	3092
1,113,000	48	7	5334.3	5434.134-34.134	5534.3-34.134	5234.3	34AH	12SH	.....	.....	.....	.....	.....	.....
1,113,000	54	19	5334.3	5434.138-34.138	5534.3-34.138	5234.3	34AH	14SH	1278	1112	318	A or AA	4216	3093
1,192,500	45	7	5334.3	5434.138-34.138	5534.3-34.138	5234.3	34AH	12SH	1278	1112	318	A or AA	4216	3094
1,192,500	48	7	5334.3	5434.138-34.138	5534.3-34.138	5234.3	34AH	12SH	.....	.....	.....	.....	.....	.....
1,192,500	54	19	5336.3	5436.141-36.141	5536.3-36.141	5236.3	36AH	14SH	1280	1112	319	A or AA	4216	3095
1,272,000	45	7	5336.3	5436.141-36.141	5536.3-36.141	5236.3	36AH	12SH	1280	1112	319	A or AA	4216	3095
1,272,000	48	7	5336.3	5436.144-36.144	5536.3-36.144	5236.3	36AH	12SH	.....	.....	.....	.....	.....	.....
1,272,000	54	19	5336.3	5436.144-36.144	5536.3-36.144	5236.3	36AH	16SH	1281	1112	319	A or AA	4216	3096
1,351,500	45	7	5336.3	5436.147-36.147	5536.3-36.147	5236.3	36AH	12SH	1282	1112	319	A or AA	4217	3096
1,351,500	48	7	5336.3	5436.147-36.147	5536.3-36.147	5236.3	36AH	14SH	.....	.....	.....	.....	.....	.....
1,351,500	54	19	5338.3	5438.150-38.150	5538.3-38.150	5238.3	38AH	16SH	1282	1112	319	A or AA	4217	3097
1,431,000	45	7	5338.3	5438.150-38.150	5538.3-38.150	5238.3	38AH	12SH	1283	1112	319	A or AA	4217	3097
1,431,000	48	7	5338.3	5438.150-38.150	5538.3-38.150	5238.3	38AH	14SH	.....	.....	.....	.....	.....	.....
1,431,000	54	19	5338.3	5438.153-38.153	5538.3-38.153	5238.3	38AH	16SH	1283	1112	320	A or AA	4217	3100
1,510,500	45	7	5338.3	5438.153-38.153	5538.3-38.153	5238.3	38AH	12SH	1284	1112	320	A or AA	4217	3100
1,510,500	48	7	5338.3	5438.156-38.156	5538.3-38.156	5238.3	38AH	14SH	1284	1112	320	A or AA	4217	3101
1,510,500	54	19	5340.3	5440.159-40.159	5540.3-40.159	5240.3	40AH	16SH	.....	.....	.....	.....	.....	.....
1,590,000	45	7	5340.3	5440.159-40.159	5540.3-40.159	5240.3	40AH	12SH	1284	1112	320	A or AA	4217	3101
1,590,000	54	19	5340.3	5440.162-40.162	5540.3-40.162	5240.3	40AH	18SH	1285	.....	321	A or AA	4217	3103
101,800	12	7	.....	.....	.....	.....	.....	.....	1242	1104	1312.0	C	4208	3050
110,800	12	7	.....	.....	.....	.....	.....	.....	1243	1104	1312.1	C	4208	3051
124,600	12	7	.....	.....	.....	.....	.....	.....	1247	1105	1312.3	C	4209	3053
159,000	12	7	.....	.....	.....	.....	.....	.....	1250	1106	1312.5	C	4210	3055
176,900	12	7	.....	.....	.....	.....	.....	.....	1251	1106	1312.6	C	4210	3057
183,600	18	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
190,800	12	7	.....	.....	.....	.....	.....	.....	1253	1106	1312.7	C	4210	3058
203,200	16	19	.....	.....	.....	.....	.....	.....	1257	1107	1313.3	B	4211	3062
211,300	12	7	.....	.....	.....	.....	.....	.....	1255	1107	1313.1	B	4211	3060
9/32S.GW.	.....	7	.....	.....	.....	.....	76AH	76SH	.....	.....	.....	.....	.....	.....
5/16S.GW.	.....	7	.....	.....	.....	.....	76AH	76SH	.....	.....	.....	.....	.....	.....
5/16S.GW.	.....	7	.....	.....	.....	.....	20AH	10SH	.....	.....	.....	.....	.....	.....
3/8S.GW.	.....	7	.....	.....	.....	.....	20AH	12SH	.....	.....	.....	.....	.....	.....
7/16S.GW.	.....	7	.....	.....	.....	.....	27AH	14SH	.....	.....	.....	.....	.....	.....
1/2S.GW.	.....	7	.....	.....	.....	.....	27AH	14SH	.....	.....	.....	.....	.....	.....
1/2S.GW.	.....	7	.....	.....	.....	.....	30AH	16SH	.....	.....	.....	.....	.....	.....

Price on Application

ALCOA ACCESSORY CATALOG NUMBERS

ACCESSORY CATALOG NUMBERS—477,000 CM TO 1,590,000 CM STRANDED ALUMINUM CONDUCTORS

Stranded aluminum				Compression accessories							
Code word	Cir. Mils or AWG	Strands	Cond. dia. inches	Dead end assembly				Aluminum joint	Jumper connector	Terminal connector	Tee tap
				Al. dead end bodies		Steel dead end	Jumper terminal				
				Sgl. tongue	DbL. tongue						
Cosmos	477,000	19	0.793	7124.844	7224.844	9100	5124.844	7024.844	5024.844	5624.844	5324.3
Syringa	477,000	37	0.795	7124.844	7224.844	9100	5124.844	7024.844	5024.844	5624.844	5324.3
Dahlia	556,500	19	0.856	7124.906	7224.906	9100	5124.906	7024.906	5024.906	5624.906	5324.3
Mistletoe	556,500	37	0.858	7124.906	7224.906	9100	5124.906	7024.906	5024.906	5624.906	5324.3
Orchid	636,000	37	0.918	7124.953	7224.953	9200	5124.953	7024.953	5024.953	5624.953	5324.3
Violet	715,500	37	0.974	7127.100	7227.100	9200	5127.100	7027.100	5027.100	5627.100	5327.3
Nasturtium	715,500	61	0.975	7127.100	7227.100	9200	5127.100	7027.100	5027.100	5627.100	5327.3
Arbutus	795,000	37	1.026	7130.109	7230.109	9300	5130.109	7030.109	5030.109	5630.109	5330.3
Lilac	795,000	61	1.028	7130.109	7230.109	9300	5130.109	7030.109	5030.109	5630.109	5330.3
Anemone	874,500	37	1.077	7130.112	7230.112	9300	5130.112	7030.112	5030.112	5630.112	5330.3
Crocus	874,500	61	1.078	7130.112	7230.112	9300	5130.112	7030.112	5030.112	5630.112	5330.3
Magnolia	954,000	37	1.124	7130.119	7230.119	9300	5130.119	7030.119	5030.119	5630.119	5330.3
Goldenrod	954,000	61	1.126	7130.119	7230.119	9300	5130.119	7030.119	5030.119	5630.119	5330.3
Bluebell	1,033,500	37	1.170	7130.122	7230.122	9300	5130.122	7030.122	5030.122	5630.122	5330.3
Larkspur	1,033,500	61	1.172	7130.122	7230.122	9300	5130.122	7030.122	5030.122	5630.122	5330.3
Marigold	1,113,000	61	1.216	7134.128	7234.128	9400	5134.128	7034.128	5034.128	5634.128	5334.3
Hawthorn	1,192,500	61	1.258	7134.131	7234.131	9400	5134.131	7034.131	5034.131	5634.131	5334.3
Narcissus	1,272,000	61	1.300	7134.134	7234.134	9500	5134.134	7034.134	5034.134	5634.134	5334.3
Columbine	1,351,500	61	1.340	7136.141	7236.141	9500	5136.141	7036.141	5036.141	5636.141	5336.3
Carnation	1,431,000	61	1.379	7136.144	7236.144	9500	5136.144	7036.144	5036.144	5636.144	5336.3
Gladiolus	1,510,500	61	1.417	7136.147	7236.147	9500	5136.147	7036.147	5036.147	5636.147	5336.3
Coreopsis	1,590,000	61	1.454	7138.153	7238.153	9600	5138.153	7038.153	5038.153	5638.153	5338.3
Dogwood	1,590,000	91	1.454	7138.153	7238.153	9600	5138.153	7038.153	5038.153	5638.153	5338.3

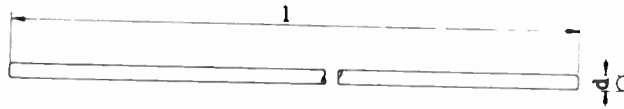
ACCESSORY CATALOG NUMBERS—477,000 CM TO 1,590,000 CM STRANDED ALUMINUM CONDUCTOR (Concluded)

Stranded aluminum				Compression accessories					Armor rods and accessories				
Code word	Cir. Mils or AWG	Strands	Cond. dia. inches	Tee connectors		Repair sleeve	Compressor dies	Tapered armor rod	Armor rod clip	Armor rod clamp	Wrench frame size	Armor rod dies	Come-alongs
				Closed run	Open run								
				Cosmos	477,000									19	0.793	5424.844-24.844	5524.3-24.844	5224.3	24AH	1261	1108	1314.1	B	4212	3065
Syringa	477,000	37	0.795	5424.844-24.844	5524.3-24.844	5224.3	24AH	1261	1108	1314.1	B	4212	3065
Dahlia	556,500	19	0.856	5424.906-24.906	5524.3-24.906	5224.3	24AH	1264	1109	1314.3	BA	4212	3071
Mistletoe	556,500	37	0.858	5424.906-24.906	5524.3-24.906	5224.3	24AH	1264	1109	1314.3	BA	4212	3071
Orchid	636,000	37	0.918	5424.953-24.953	5524.3-24.953	5224.3	24AH	1266	1109	1314.6	BA	4213	3073
Violet	715,500	37	0.974	5427.100-27.100	5527.3-27.100	5227.3	27AH	1268	1110	1315.2	BA	4213	3075
Nasturtium	715,500	61	0.975	5427.100-27.100	5527.3-27.100	5227.3	27AH	1268	1110	1315.2	BA	4213	3075
Arbutus	795,000	37	1.026	5430.109-30.109	5530.3-30.109	5230.3	30AH	1270	1110	1315.4	A or AA	4214	3080
Lilac	795,000	61	1.028	5430.109-30.109	5530.3-30.109	5230.3	30AH	1270	1110	1315.4	A or AA	4214	3080
Anemone	874,500	37	1.077	5430.112-30.112	5530.3-30.112	5230.3	30AH	1272	1110	1315.7	A or AA	4214	3082
Crocus	874,500	61	1.078	5430.112-30.112	5530.3-30.112	5230.3	30AH	1272	1110	1315.7	A or AA	4214	3082
Magnolia	954,000	37	1.124	5430.119-30.119	5530.3-30.119	5230.3	30AH	1272	1111	317	A or AA	4214	3084
Goldenrod	954,000	61	1.126	5430.119-30.119	5530.3-30.119	5230.3	30AH	1272	1111	317	A or AA	4214	3084
Bluebell	1,033,500	37	1.170	5430.122-30.122	5530.3-30.122	5230.3	30AH	1275	1111	317	A or AA	4218	3085
Larkspur	1,033,500	61	1.172	5430.122-30.122	5530.3-30.122	5230.3	30AH	1275	1111	317	A or AA	4218	3085
Marigold	1,113,000	61	1.216	5434.128-34.128	5534.3-34.128	5234.3	34AH	1276	1111	317	A or AA	4216	3091
Hawthorn	1,192,500	61	1.258	5434.131-34.131	5534.3-34.131	5234.3	34AH	1277	1111	318	A or AA	4216	3092
Narcissus	1,272,000	61	1.300	5434.134-34.134	5534.3-34.134	5234.3	34AH	1278	1112	318	A or AA	4216	3093
Columbine	1,351,500	61	1.340	5436.141-36.141	5536.3-36.141	5236.3	36AH	1280	1112	319	A or AA	4216	3095
Carnation	1,431,000	61	1.379	5436.144-36.144	5536.3-36.144	5236.3	36AH	1281	1112	319	A or AA	4216	3096
Gladiolus	1,510,500	61	1.417	5436.147-36.147	5536.3-36.147	5236.3	36AH	1282	1112	319	A or AA	4217	3097
Coreopsis	1,590,000	61	1.454	5438.153-38.153	5538.3-38.153	5238.3	38AH	1283	1112	320	A or AA	4217	3100
Dogwood	1,590,000	91	1.454	5438.153-38.153	5538.3-38.153	5238.3	38AH	1283	1112	320	A or AA	4217	3100

Price on Application

ALCOA ARMOR RODS

STRAIGHT ARMOR RODS FOR ACSR



Single Support		Double Support		Requires armor rod clip catalog number ②	Requires wrench		ACSR			Armor rods				
Armor rods catalog number (Per set)	Nominal weight, pounds (Per set)	Armor rods catalog number (Per set)	Nominal weight, pounds (Per set)		Frame size	Die catalog number	Size cm or AWG	Stranding		Number of rods (Per set)	Dimensions in inches			
								Al	St		d	1 single s'pt	1 single s'pt	D over-all dia. ①
1122	0.30	1152	0.34	1101	C	4203 ③	6	6	1	8	0.118	35	47	0.434
1123	0.40	1153	0.52	1103	C	4203 ③	5	6	1	8	0.135	35	47	0.493
1124	0.55	1154	0.72	1103	C	4203 ③	4	6	1	8	0.149	40	52	0.548
1124	0.55	1154	0.72	1103	C	4203 ③	4	7	1	8	0.149	40	52	0.555
1125	0.51	1155	0.65	1103	C	4205 ④	3	6	1	10	0.120	45	57	0.521
1126	0.64	1156	0.81	1103	C	4205 ④	2	6	1	10	0.135	45	57	0.586
1126	0.64	1156	0.81	1103	C	4205 ④	2	7	1	10	0.135	45	57	0.595
1127	0.87	1157	1.1	1104	C	4207 ④	1	6	1	10	0.149	50	62	0.653
1128.1	1.2	1158.1	1.6	1105	C	4207 ④	1/0	6	1	10	0.174	50	66	0.746
1129 ⑤	1.2	1159 ⑤	1.5	1105	C	4225	2/0	6	1	12	0.149	55	71	0.745
1130 ⑤	1.6	1160 ⑤	2.0	1106	C	4225	3/0	6	1	12	0.166	60	76	0.834
1131 ⑤	2.2	1161 ⑤	2.6	1107	C	4225	4/0	6	1	12	0.186	65	81	0.939
1174 ⑤	2.4	1194 ⑤	3.0	1108	C	4225	266,800	18	1	12	0.195	65	81	0.999
1175 ⑤	2.7	1195 ⑤	3.2	1108	B	4226	336,400	18	1	14	0.186	70	86	1.056
1176 ⑤	2.4	1196 ⑤	3.0	1108	B	4227	397,500	18	1	16	0.166	70	86	1.075
1177 ⑤	3.0	1197 ⑤	3.7	1109	BA	4228	477,000	18	1	16	0.186	70	86	1.186
1185.1	0.98			1105	C	4207 ④	80,000	8	1	10	0.160	50		0.687

FOR STRANDED ALUMINUM CONDUCTOR

Single Support		Double Support		Requires armor rod clip catalog number ②	Requires wrench		Stranded Aluminum		Armor rods				
Armor rods catalog number (Per set)	Nominal weight, pounds (Per set)	Armor rods catalog number (Per set)	Nominal weight, pounds (Per set)		Frame size	Die catalog number	Size cm or AWG	Strands	Number of rods (Per set)	Dimensions in inches			
										Al	d	1	1	D over-all dia. ①
1125	0.51	1155	0.5	1103	C	4205 ④	2	7	10	0.120	45	57	0.532
1185.1	0.98	1195.1	1.3	1105	C	4207 ④	1/0	7	10	0.160	50	66	0.688
1171.1	1.3	1191.1	1.7	1106	C	4207 ④	2/0	7	10	0.178	55	71	0.770
1172 ⑤	1.3	1192 ⑤	1.7	1106	C	4225	3/0	7	12	0.155	60	76	0.774
1173 ⑤	1.8	1193 ⑤	2.3	1107	C	4225	4/0	7	12	0.174	65	81	0.870
1174 ⑤	2.4	1194 ⑤	3.0	1108	C	4225	266,800	7	12	0.195	65	81	1.038
1175 ⑤	2.7	1195 ⑤	3.2	1108	B	4226	336,400	19	14	0.186	70	86	1.028
1176 ⑤	2.4	1196 ⑤	3.0	1108	B	4227	397,500	19	16	0.166	70	86	1.056
1177 ⑤	3.0	1197 ⑤	3.7	1109	BA	4228	477,000	19	16	0.186	70	86	1.165

- ① Choose suspension clamps or pin insulators with grooves that will provide a snug fit. The grooves should preferably be not more than 15 per cent greater than dimension D.
- ② Armor rod clips (V-bolt type) or armor rod clamps are required for holding the ends of the armor rods. On high voltage lines, where corona is a factor, armor rod clamps are preferred. Order two clips or two clamps per set of rods.
- ③ Wrench size "E" with integral die may be used for these sizes.

- ④ Wrench size "D" with integral die may be used for these sizes.
- ⑤ These straight armor rods are recommended for use only on relatively short spans and on pin insulators. For long spans use tapered armor rods as shown.
- ⑥ Armor rods for double supports.
- ⑦ Straight armor rods are recommended alternatively for use on relatively short spans and on pin insulators.

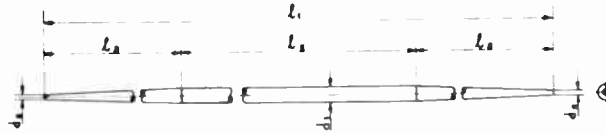
1. Straight and tapered armor rods are shipped in bundles tied in sets.

2. Where double supports are widely spaced, as sometimes occurs when two strings of suspension insulators are used, armor rods of special length may be required. When ordering such special armor rods, specify distance between centers of supports.

Price on Application

ALCOA ARMOR RODS

TAPERED ARMOR RODS FOR ACSR



Armor rods catalog number (Per set)	Nominal wt. lbs. (Per set)	Armor rod clip catalog number ②	Armor rod clamp catalog number ②	Requires wrench		ACSR			Armor rods					
						Size cm or AWG	Stranding		No. of rods (Per set)	Dimensions in inches				
							Al	S.		l ₁	l ₂	d ₁	D over-all dia. at cr. ①	½ Length assembled (approx.)
⑦ 1241	1.1	1104	1312.0	C	4207	2/0	6	1	10	42 ¾	30	0.194	0.835	20
⑦ 1245	1.3	1105	1312.2	C	4209	3/0	6	1	10	41 ¾	28	0.218	0.938	19
⑦ 1249	1.8	1106	1312.4	C	4209	4/0	6	1	10	42 ¾	27	0.244	1.051	20
⑦ ⑥ 1291	1.7	1104	1312.0	C	4207	2/0	6	1	10	58 ¾	46	0.194	0.835	28
⑦ ⑥ 1295	2.1	1105	1312.2	C	4209	3/0	6	1	10	57 ¾	44	0.218	0.938	27
⑦ ⑥ 1299	2.7	1106	1312.4	C	4209	4/0	6	1	10	57 ¾	42	0.244	1.051	27
⑦ 1251	1.9	1106	1312.6	C	4210	266,800	18	1	10	45	28 ½	0.258	1.125	21
1253	2.7	1106	1312.7	C	4210	266,800	6	7	10	66	31	0.273	1.179	27
1253	2.7	1106	1312.7	C	4210	266,800	26	7	10	66	31	0.273	1.188	27
1255	2.7	1107	1313.2	B	4211	300,000	26	7	10	45 ½	27	0.289	1.258	21
⑦ 1255	2.7	1107	1313.2	B	4211	336,400	18	1	10	45 ½	27	0.289	1.262	21
1258	4.0	1107	1313.4	B	4211	336,400	26	7	10	71 ½	31 ½	0.314	1.349	31
1258	4.0	1108	1313.4	B	4211	336,400	30	7	10	71 ½	31 ½	0.314	1.369	31
⑦ 1258	4.0	1108	1313.5	B	4211	397,500	18	1	10	71 ½	31 ½	0.314	1.371	31
1260	4.4	1108	1314.0	B	4212	397,500	26	7	10	73	31	0.332	1.447	30
1261	4.8	1108	1314.1	B	4212	397,500	30	7	10	75	31	0.342	1.490	31
⑦ 1262	5.1	1108	1314.2	B	4212	477,000	18	1	10	76	31	0.352	1.518	31
1263	6.3	1108	1314.3	B	4212	477,000	24	7	10	85	39	0.362	1.570	35
1264	6.6	1109	1314.3	B	4212	477,000	26	7	10	86	38	0.372	1.602	35
1265	7.0	1109	1314.4	B or BA	4213	477,000	30	7	10	86	37	0.383	1.649	35
1264	6.6	1109	1314.4	B	4212	556,500	18	1	10	86	38	0.372	1.623	35
1266	7.3	1109	1314.6	B or BA	4213	556,500	24	7	10	86	36	0.394	1.702	35
1266	7.3	1109	1314.6	B or BA	4213	556,500	26	7	10	86	36	0.394	1.715	35
1267	9.3	1109	1315.1	B or BA	4213	556,500	30	7	10	99	47	0.405	1.763	41
1267	9.3	1109	1315.1	B or BA	4213	605,000	24	7	10	99	47	0.405	1.763	41
1268	9.7	1110	1315.2	B or BA	4213	605,000	26	7	10	99	46	0.416	1.798	41
1269	10	1110	1315.3	B or BA	4213	605,000	30	19	10	100	45	0.428	1.850	41
1268	9.7	1110	1315.2	BA	4213	636,000	24	7	10	99	46	0.416	1.809	41
1269	10	1110	1315.3	BA	4213	636,000	26	7	10	100	45	0.428	1.846	41
1270	12	1110	1315.4	A or AA	4214	636,000	30	19	10	112	56	0.441	1.901	47
1269	10	1110	1315.3	BA	4213	666,600	24	7	10	100	45	0.428	1.856	41
1270	12	1110	1315.5	A or AA	4214	715,500	54	7	10	112	56	0.441	1.918	47
1271	13	1110	1315.5	A or AA	4214	715,500	26	7	10	113	55	0.454	1.959	47
1272	14	1110	1315.7	A or AA	4214	715,500	30	19	10	114	54	0.466	2.013	48
1270	12	1110	1315.5	A or AA	4214	795,000	36	1	10	112	56	0.441	1.922	47
1271	13	1110	1315.6	A or AA	4214	795,000	45	7	10	113	55	0.454	1.971	47
1272	14	1110	1315.7	A or AA	4214	795,000	54	7	10	114	54	0.466	2.025	48
1272	14	1110	1315.7	A or AA	4214	795,000	24	7	10	114	54	0.466	2.025	48
1272	14	1111	317	A or AA	4214	795,000	26	7	10	114	54	0.466	2.040	48
1274	16	1111	317	A or AA	4214	795,000	30	19	10	114	51	0.494	2.128	47
1274	16	1111	317	A or AA	4214	874,500	54	7	10	114	51	0.494	2.134	47
1274	16	1111	317	A or AA	4214	900,000	54	7	10	114	51	0.494	2.150	47
1274	16	1111	317	A or AA	4214	954,000	45	7	10	114	51	0.494	2.153	47
1275	12	1111	317	A or AA	4218	954,000	54	7	12	111	61	0.394	1.984	47
1276	13	1111	317	A or AA	4216	1,033,500	45	7	12	112	60	0.405	2.023	48
1277	14	1112	318	A or AA	4216	1,033,500	54	7	12	112	59	0.416	2.078	47

Price on Application

ALCOA ARMOR RODS

TAPERED ARMOR RODS FOR ACSR (Continued)

Armor rods catalog number (Per set)	Nominal wgt., lbs. (Per set)	Armor rod clip catalog number ②	Armor rod clamp catalog number ②	Requires wrench		ACSR				Armor rods				
						Frame size	Die catalog number	Size cm or AWG	Stranding		No of rods (Per set)	Dimensions in inches		
				A1	S.				l ₁	l ₂		d ₁	D over-all dia. at cr. ①	½ Length assembled (approx.)
1277	14	1112	318	A or AA	4216	1,113,000	45	7	12	112	59	0.416	2.091	47
1278	15	1112	318	A or AA	4216	1,113,000	54	19	12	113	58	0.428	2.149	48
1278	15	1112	318	A or AA	4216	1,192,500	45	7	12	113	58	0.428	2.158	48
1280	15	1112	319	A or AA	4216	1,192,500	54	19	12	112	56	0.441	2.220	47
1280	15	1112	319	A or AA	4216	1,272,000	45	7	12	112	56	0.441	2.227	47
1281	16	1112	319	A or AA	4216	1,272,000	54	19	12	113	55	0.454	2.290	47
1282	14	1112	319	A or AA	4217	1,351,500	45	7	14	111	62	0.383	2.152	48
1282	14	1112	319	A or AA	4217	1,351,500	54	19	14	111	62	0.383	2.190	48
1283	15	1112	319	A or AA	4217	1,431,000	45	7	14	111	61	0.394	2.215	47
1283	15	1112	320	A or AA	4217	1,431,000	54	19	14	111	61	0.394	2.253	47
1284	15	1112	320	A or AA	4217	1,510,500	45	7	14	112	60	0.405	2.276	48
1284	15	1112	320	A or AA	4217	1,510,500	54	19	14	112	60	0.405	2.316	48
1284	15	1112	320	A or AA	4217	1,590,000	45	7	14	112	60	0.405	2.312	48
1285	16	.....	321	A or AA	4217	1,590,000	54	19	14	112	59	0.416	2.377	47
1242	1.1	1104	1312.0	C	4208	101,800	12	7	10	42½	29¾	0.200	0.861	20
1243	1.2	1104	1312.1	C	4208	110,800	12	7	10	42⅞	29¾	0.206	0.893	20
1247	1.4	1105	1312.3	C	4209	134,600	12	7	10	41¾	27	0.230	0.990	19
1250	2.7	1106	1312.5	C	4210	159,000	12	7	10	43	27	0.251	1.078	20
1251	2.9	1106	1312.6	C	4210	176,900	12	7	10	45	28½	0.258	1.123	21
1253	2.7	1106	1312.7	C	4210	190,800	12	7	10	66	31	0.273	1.177	27
1257	3.6	1107	1313.3	B	4211	203,200	16	19	10	71	32	0.305	1.324	29
1255	2.7	1107	1313.1	B	4211	211,300	12	7	10	45½	27	0.289	1.241	21

TAPERED ARMOR RODS FOR STRANDED ALUMINUM CONDUCTOR

Armor rods catalog number (Per set)	Nominal wgt., lbs. (Per set)	Requires armor rod clip catalog number ②	Requires armor rod clamp catalog number ②	Requires wrench		Stranded aluminum		Armor rods					
								Frame size	Die catalog number	Size cm or AWG	Stranding	No. of rods (Per set)	Dimensions in inches
				l ₁	l ₂	d ₁	D over-all dia. at cr. ①						½ Length assembled (approx.)
⑦1242	1.1	1104	1312.0	C	4208	3/0	7	10	42½	29¾	0.200	0.864	20
⑦1246	1.4	1105	1312.3	C	4209	4/0	7	10	41¾	27½	0.224	0.970	19
⑦1250	1.7	1106	1312.5	C	4210	266,800	7 or 19	10	43	27	0.251	1.095	20
⑦1254	2.7	1107	1313.1	C	4210	336,400	19	10	45	27	0.281	1.228	26
⑦1258	4.0	1107	1313.4	B	4211	397,500	19	10	71½	31½	0.314	1.352	29
⑦1261	4.8	1108	1314.1	B	4212	477,000	19 or 37	10	75	31	0.342	1.479	31
1264	6.6	1109	1314.3	BA	4212	556,500	19 or 37	10	86	38	0.372	1.602	35
1266	7.3	1109	1314.6	BA	4213	636,000	37	10	86	36	0.394	1.706	35
1268	9.7	1110	1315.2	BA	4213	715,500	37 or 61	10	99	46	0.416	1.807	41
1270	12	1110	1315.4	A or AA	4214	795,000	37 or 61	10	112	56	0.441	1.910	47
1272	14	1110	1315.7	A or AA	4214	874,500	37 or 61	10	114	54	0.466	2.010	47
1272	14	1111	317	A or AA	4214	954,000	37 or 61	10	114	54	0.466	2.058	47
1275	12	1111	317	A or AA	4218	1,033,500	37 or 61	12	111	61	0.394	1.960	47
1276	13	1111	317	A or AA	4216	1,113,000	61	12	112	60	0.405	2.026	48
1278	15	1112	318	A or AA	4216	1,272,000	61	12	113	58	0.428	2.156	48
1277	14	1111	318	A or AA	4216	1,192,500	61	12	112	59	0.416	2.090	47
1280	15	1112	319	A or AA	4216	1,351,500	61	12	112	56	0.441	2.222	47
1281	16	1112	319	A or AA	4216	1,431,000	61	12	113	55	0.454	2.287	47
1282	14	1112	319	A or AA	4217	1,510,500	61	14	111	62	0.383	2.183	48
1283	15	1112	320	A or AA	4217	1,590,000	61 or 91	14	111	61	0.394	2.242	47

Price on Application

ALCOA UNIVERSAL PARALLEL GROOVE CLAMPS

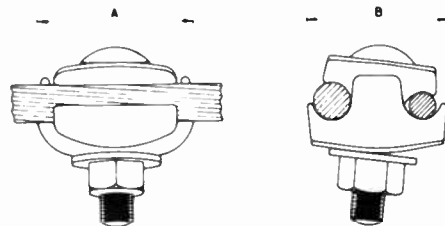
Clamp Cat. No.	Nominal Wt. Lbs.	Dimensions, Inches			
		Bolt		A	B
		Dia.	Length		
190	0.37	1/2	2 3/8	2 3/8	2 1/8
R192	0.18	3/8	1 3/4	1 7/8	1 3/4
R194	0.09	5/16	1 3/8	1 7/8	1 3/4
R196	0.38	1/2	2 3/8	2 3/8	2 1/8
198	0.20	3/8	1 3/4	1 7/8	1 3/4
200	0.76	5/8	3	3	2 5/8

TABLE NO. 1
CHART REFERENCE NUMBERS FOR CONNECTIONS TO ROUND ALUMINUM CONDUCTOR WIRE

Size AWG	Reference No.	Size AWG	Reference No.
6	1	2	5
5	2	1	6
4	3	1/0	7
3	4		

TABLE NO. 2
190 SERIES U.P.G. CLAMPS CHART REFERENCE NUMBERS FOR CONNECTIONS TO ACSR

Size ACSR AWG or MCM	Reference number			
	Bare	With Alcoa straight rods	With preformed	
			Straight or tap rods	Line guards
6	3	9	10	10
5	4	10	10	...
4	5	11	11	11
3	6	11	12	...
2	7	13	13	12
1	8	14	14	13
1/0	9	17	16	13
2/0	10	17	18	15
3/0	11	19	19	17
4/0	12	19	19	19
266-18/1	13	...	...	19
266- 6/7	13	...	...	19
266-26/7	14	...	...	19
300-26/7	14	...	...	...
336-18/1	15	...	...	...
336-26/7	16	...	...	...
336-30/7	16	...	...	...
397-18/1	17	...	...	...
397-26/7	18	...	...	...
397-30/7	19	...	...	...
477-18/1,24/7	19	...	...	...
26/7,30/7				
556-24/7,26/7	19	...	..	...



Extensive field experience and exposure tests show that if a suitable type joint compound is liberally applied over and round the contact area, copper-to-aluminum electric connections can be made satisfactorily with aluminum clamps without copper bushings. Alnox is especially recommended.

INSTRUCTIONS FOR USING SELECTION CHART

1. Select chart reference number from Tables No. 1, 2 or 3 using as a basis the larger aluminum conductor to be connected.

A connection is chosen by locating the intersection of the line on which the reference number appears and the vertical column above the smaller conductor size to be connected.

Example:

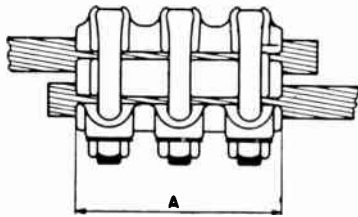
To select a clamp from the chart for connecting No. 1/0 ACSR to No. 4 ACSR, the reference number is 9 from Table 2. Line 9 intersects the column above No. 4 ACSR in the area covered by the Cat. R192 or Cat. 198 clamp.

TABLE NO. 3
190 SERIES U.P.G. CLAMPS CHART REFERENCE NUMBERS FOR CONNECTIONS TO STRANDED ALUMINUM CONDUCTOR

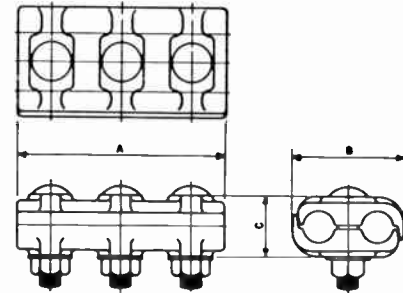
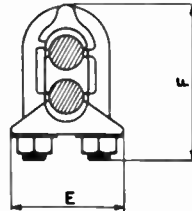
Size Stranded aluminum AWG or MCM	Reference number			
	Bare	With Alcoa straight armor rods	With preformed	
			Straight or tap rods	Line guards
6	2	...	9	...
4	4	...	10	10
3	5	...	12	...
2	6	11	12	11
1	7	...	13	12
1/0	8	15	14	13
2/0	9	18	15	14
3/0	10	18	17	15
4/0	11	19	19	17
250	12	...	...	...
266	13	...	...	19
336-350	14	...	...	19
397-400	16	...	...	...
450	18	...	...	...
477	19	...	...	...
500-600	19	...	...	...
636-650	19	...	...	...

Price on Application

ALCOA PARALLEL GROOVE CLAMPS



280 Series



180 Series

Clamp catalog number	Nominal weight, pounds	Maximum conductor dia., inches		Dimensions in inches			† U-bolts	
		Aluminum groove	‡ Copper-bushed groove	A	E	F	Number	Diameter, inch
280	0.73	0.414	0.328	3	2 ⁵ / ₁₆	3	2	1/2
281	0.92	0.563	0.419	3 ³ / ₈	2 ⁷ / ₁₆	3 ³ / ₈	2	1/2
282	1.1	0.684	0.528	3 ³ / ₈	2 ⁹ / ₁₆	3 ⁵ / ₈	2	1/2
283	2.0	0.814	0.630	4 ⁵ / ₈	3 ¹ / ₈	4 ³ / ₁₆	2	3/8
284	3.0	0.930	0.772	5 ⁷ / ₈	3 ¹ / ₄	4 ⁷ / ₁₆	3	5/8
285	3.6	1.140	0.893	6 ³ / ₄	3 ³ / ₄	4 ¹³ / ₁₆	3	3/8
286	6.7	1.300	1.031	8	4 ¹ / ₈	5 ³ / ₄	3	3/4
287	9.5	1.545	1.152	9 ³ / ₄	4 ¹ / ₂	6 ¹ / ₂	3	3/4

Clamp catalog number	Nominal weight, pounds	Maximum conductor dia., inches		Dimensions in inches			† Bolts		
		Aluminum groove	‡ Copper-bushed groove	A	B	C	Number	Diameter, inch	Length, inches
180	0.40	0.381	0.224	3 ¹ / ₈	1 ⁷ / ₈	7/8	2	1/2	1 ³ / ₄
181	0.69	0.480	0.380	3 ³ / ₄	2 ¹ / ₄	1 ¹ / ₁₆	2	1/2	2
182	1.3	0.693	0.536	5	2 ⁹ / ₁₆	1 ¹³ / ₃₂	3	1/2	2 ¹ / ₄
183	1.8	0.818	0.661	5 ¹ / ₂	3	1 ²¹ / ₃₂	3	3/8	2 ¹ / ₂
184	2.7	0.943	0.786	6	3 ³ / ₈	1 ²⁷ / ₃₂	3	5/8	2 ³ / ₄
185	3.2	1.068	0.912	6 ³ / ₄	3 ⁵ / ₈	2 ¹ / ₁₆	3	5/8	3
186	4.8	1.193	1.036	7 ³ / ₄	4 ¹ / ₈	2 ⁵ / ₁₆	3	3/4	3 ¹ / ₂
187	6.7	1.348	1.193	8 ⁷ / ₈	4 ¹ / ₂	2 ⁵ / ₈	4	3/4	3 ¹ / ₂
188	8.2	1.506	1.348	9 ⁷ / ₈	4 ⁷ / ₈	2 ⁷ / ₈	4	3/4	4
189	13.	1.688	1.536	1 ¹ / ₄	5 ¹ / ₄	3 ¹ / ₄	5	3/4	4 ¹ / ₂

† Bolts, nuts and washers are aluminum.

INSTALLATION INSTRUCTIONS

1. Especially if the installation is on an old conductor clean the strands with a wire brush or emery cloth.
2. Apply a liberal coating of Alnox Electrical Joint Compound to the conductor and grooves.
3. Bolt the clamp to the conductors. Tighten the nuts "finger-tight" then partially tighten each nut alternately until all are equally torqued.
4. Do not remove the joint compound that squeezes out when the clamp is tightened.

SPECIFICATIONS FOR ORDERING

When ordering specify the size, stranding, and material of both conductors.

When one groove for copper conductor is specified, that groove will be bushed with copper unless otherwise ordered.

In choosing a parallel groove clamp for connecting two different sizes of conductor, determine the clamp required for each size of conductor. Order the larger of the two clamps indicated.

Recommended tightening torque for aluminum bolts with No. 205 Alumilite finish and No-Ox-Id coated, for conductor accessories.

Bolt diameter, inch	Torque, ft-lb	Bolt diameter, inch	Torque, ft-lb
3/8	13	5/8	40
1/2	25	3/4	60

‡ Extensive field experience and exposure tests show that if a suitable grease type joint compound is liberally applied over and around the contact area, copper-to-aluminum electric connections can be made satisfactorily with aluminum clamps without copper bushings.

Price on Application

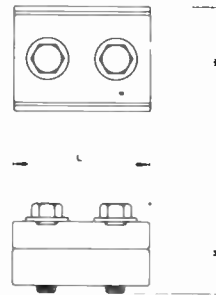
ALCOA PARALLEL GROOVE CLAMPS

UNIVERSAL PARALLEL GROOVE CLAMPS

UNIVERSAL GROOVE RANGES

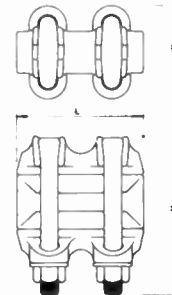
Groove number	Groove ranges							
	Diameter				ACSR		Stranded aluminum	
	Aluminum		Copper bushed		Min.	Max.	Min.	Max.
	Min.	Max.	Min.	Max.				
0	0.162	0.325	0.162	0.260	6¼	2¼	6	2
1	0.292	0.502	0.257	0.426	2¼	3/0	2	3/0
2	0.464	0.743	0.414	0.629	3/0	397.5¼	3/0	400 MCM
3	0.743	1.152	0.629	0.929	397.5¼	795¼	450 MCM	1,000 MCM

CENTER BOLT CLAMP



Catalog number	Groove size one side	Groove size other side	H	L	W	Number of bolts	Bolt size	Weight, lbs.
481.0	1	0	1 ½	2 ¼	1 25/32	2	3/8	0.3
481.1	1	1	1 ½	2 ¼	1 25/32	2	3/8	0.3
482.1	2	1	2 1/32	2 3/16	2 3/16	2	1/2	0.6
482.2	2	2	2 1/32	5 ¼	2 1/16	3	1/2	1.1
483.2	3	2	2 21/32	4 ½	3 1/8	2	5/8	1.8
483.3	3	3	2 21/32	6 ¾	3 1/2	3	5/8	2.8

U-BOLT CLAMP



Catalog number	Groove size one side	Groove size other side	H	L	W	Number of bolts	Bolt size	Weight, lbs.
581.1	1	1	3 7/32	2 ¼	1 15/16	1	3/8	0.3
582.1	2	1	4 1/16	2 ¼	2 9/16	1	1/2	0.6
582.2	2	2	4 1/16	4 ½	2 9/16	2	1/2	1.3
583.1	3	1	5 3/8	2 ¼	3 5/16	1	5/8	1.1
583.2	3	2	5 3/8	4 ½	3 5/16	2	5/8	2.6
583.3	3	3	5 3/8	6 ¾	3 5/16	3	5/8	3.9

Price on Application

CHANCE EXTRUDED PARALLEL GROOVE CLAMPS



SPG105

SPG130

SPG135

A high performance line of extruded aluminum parallel groove clamps with excellent electrical and mechanical properties for use on both distribution and heavy service connections.

Chance SPG Clamps consist of two high strength, corrosion-resistant, aluminum alloy extrusions, a flat washer

and a bolt. The bolt and washer are available in galvanized steel or aluminum alloy.

Resilient bolt-retaining feature eliminates lock washer and enables clamps to be removed and reinstalled at other locations.

Cat. No.	Main Line Range	Tap Range	Bolts No. & Type	Wt. Lbs. Per 100	Per 100
SPG100	2 to 8	2 to 8	1 — Steel	10	\$ 23.80
SPG101	2 to 8	2 to 8	1 — Alum.	8 1/2	30.31
SPG105	1/0 to 6	1/0 to 6	1 — Steel	16	31.20
SPG106	1/0 to 6	1/0 to 6	1 — Alum.	12	36.20
SPG105-2	1/0 to 6	1/0 to 6	2 — Steel	32	62.75
SPG106-2	1/0 to 6	1/0 to 6	2 — Alum.	24	72.90
SPG110	2/0 to 6	2/0 to 6	1 — Steel	18 1/2	37.20
SPG111	2/0 to 6	2/0 to 6	1 — Alum.	14 1/2	42.31
SPG110-2	2/0 to 6	2/0 to 6	2 — Steel	37	77.82
SPG111-2	2/0 to 6	2/0 to 6	2 — Alum.	29	93.00
SPG120	4/0 to 2	1/0 to 6	1 — Steel	22	43.30
SPG121	4/0 to 2	1/0 to 6	1 — Alum.	18 1/2	47.20
SPG120-2	4/0 to 2	1/0 to 6	2 — Steel	44	94.40
SPG121-2	4/0 to 2	1/0 to 6	2 — Alum.	37	115.08
SPG125	4/0 to 4	4/0 to 4	1 — Steel	22	48.75
SPG126	4/0 to 4	4/0 to 4	1 — Alum.	18 1/2	56.75
SPG125-2	4/0 to 4	4/0 to 4	2 — Steel	44	110.40
SPG126-2	4/0 to 4	4/0 to 4	2 — Alum.	37	144.50
SPG130	397.5 to 1/0	2/0 to 6	1 — Steel	49	52.35
SPG131	397.5 to 1/0	2/0 to 6	1 — Alum.	36	65.95
SPG130-2	397.5 to 1/0	2/0 to 6	2 — Steel	98	147.40
SPG131-2	397.5 to 1/0	2/0 to 6	2 — Alum.	72	183.40
SPG135-2	397.5 to 2/0	397.5 to 2/0	2 — Steel	125	167.02
SPG136-2	397.5 to 2/0	397.5 to 2/0	2 — Alum.	108	200.00
SPG135-3	397.5 to 2/0	397.5 to 2/0	3 — Steel	188	269.17
SPG136-3	397.5 to 2/0	397.5 to 2/0	3 — Alum.	162	322.49
SPG141	556.5 to 4/0	2/0 to 6	1 — Alum.	51	92.00
SPG141-2	556.5 to 4/0	2/0 to 6	2 — Alum.	102	251.00
SPG146-2	795 to 397.5	795 to 397.5	2 — Alum.	175	360.00
SPG146-3	795 to 397.5	795 to 397.5	3 — Alum.	264	536.00

V-GROOVE CLEANING BRUSH



Have stiff steel brushes that provide excellent two-sided, pressure cleaning action. As brushes wear they can be rotated by loosening the anchor screws so that unused bristles will come in contact with the conductor. Can be fitted for attachment to universal poles.

Cat. No.	Description	Each
M1889	Hand Brush	\$ 5.30
M4455-63	Universal V-Groove Brush	5.00

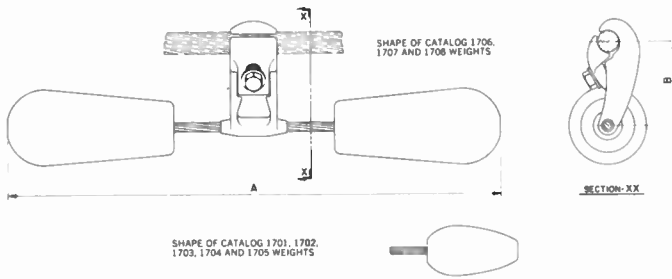
SAFETY TUBE CLEANING BRUSH



Enables linemen to clean the entire circumference of the conductor with no more than two hand or tool positions. The same brush with a universal adapter can be used with a universal tool on higher voltages.

Cat. No.	Description	Each
M4455-92	Universal Safety	\$ 6.75
M4455-93	Safety Hand	3.75

ALCOA DAMPERS



For conductor sizes not covered in the table, consult Graybar.

Table 1

Assembly catalog number	Conductor		
	Type*	Range	
		Min.	Max.
1701-2	B	.270	.360
1701-3	B	.361	.430
1702-3	B	.431	.460
1702-4	B	.461	.570
1702-5	B	.571	.630
1703-3	A	.361	.460
1703-4	A	.461	.570
1704-5	A	.571	.675
1704-6	A	.676	.770
1705-7	A	.771	.870
1705-8	A	.871	.970
1706-9	A	.971	1.090
1706-10	A	1.091	1.210
1707-11	A	1.211	1.330
1707-12	A	1.331	1.382
1708-13	A	1.383	1.486
1708-14	A	1.487	1.643
1708-15	A	1.644	1.780

* Type A-ACSR & SAC
Type B-Stranded Steel, Copperweld & Alumoweld

Assembly catalog number	Dimensions in inches			Nominal weight, lbs.
	B	A	Clamp bolt dia.	
1701-2	10 ¹¹ / ₃₂	2 ⁵ / ₃₂	7/16	2.9
1701-3	10 ¹¹ / ₃₂	2 ⁵ / ₃₂	7/16	2.9
1702-3	13 ⁵ / ₁₆	2 ⁵ / ₃₂	7/16	5.7
1702-4	13 ⁵ / ₁₆	2 ⁵ / ₃₂	7/16	5.7
1702-5	13 ⁵ / ₁₆	2 ¹⁵ / ₃₂	7/16	5.7
1703-3	11 ¹³ / ₃₂	2 ⁵ / ₃₂	7/16	3.0
1703-4	11 ¹³ / ₃₂	2 ⁵ / ₃₂	7/16	3.0
1704-5	15 ¹⁹ / ₃₂	2 ¹⁵ / ₃₂	7/16	6.9
1704-6	15 ¹⁹ / ₃₂	2 ¹⁵ / ₃₂	7/16	6.9
1705-7	18 ⁷ / ₃₂	2 ¹¹ / ₁₆	1/2	11.0
1705-8	18 ⁷ / ₃₂	2 ¹³ / ₁₆	1/2	11.0
1706-9	18 ⁷ / ₁₆	3 ²³ / ₃₂	1/2	14.9
1706-10	18 ⁷ / ₁₆	3 ²³ / ₃₂	1/2	14.9
1707-11	23 ²⁵ / ₃₂	3 ²³ / ₃₂	1/2	20.9
1707-12	24 ⁹ / ₃₂	4 ⁹ / ₁₆	5/8	21.8
1708-13	26 ²⁹ / ₃₂	4 ⁹ / ₁₆	5/8	31.1
1708-14	26 ²⁹ / ₃₂	4 ⁹ / ₁₆	5/8	31.1
1708-15	26 ²⁹ / ₃₂	4 ⁹ / ₁₆	5/8	31.1

When a damper is required with a clamp for mounting on larger than normal conductor diameter, such as the case where proper damper location requires placement over armor rods, the proper catalog number may still be determined from table.

- 1) Select the applicable damper size from the basic range table as shown—first four digits.
- 2) Select the clamp size related to the larger conductor diameter—final digit or digits.

e.g., Normal damper for 4/0 ACSR (diameter .563")
—Cat. 1703-4

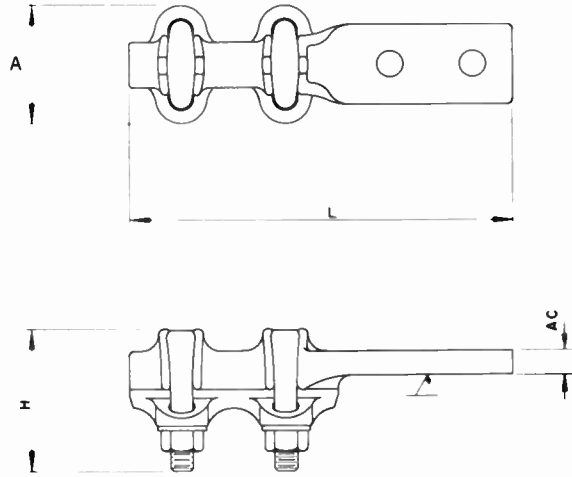
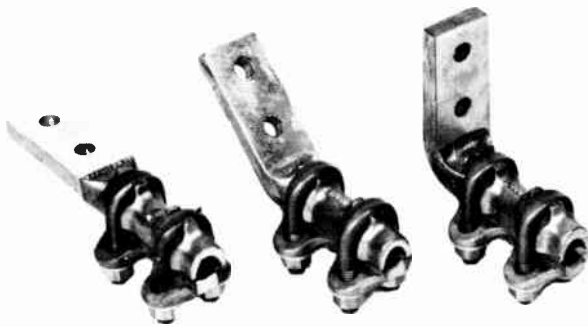
Damper for 4/0 ACSR mounted over preformed armor rods (diameter of .927")—Cat. 1703-8.

APPLICATION CHART FOR 190 SERIES UNIVERSAL PARALLEL GROOVE CLAMPS

											REF. N ^o	
											19	
											18	
											17	
											16	
											15	
											14	
											13	
											12	
											11	
											10	
											9	
											8	
											7	
											6	
											5	
											4	
											3	
											2	
											1	
6	5	4	3	2	1	1/0					WIRE W	
	6		4	3	2	1	1/0	2/0	3/0	4/0	STR. C	
		6	5	4	3	2	1	1/0	2/0	3/0	4/0	ACSR
BOTH GROOVES ALUMINUM												

Price on Application

ALCOA UNIVERSAL GROOVE BOLTED TERMINALS

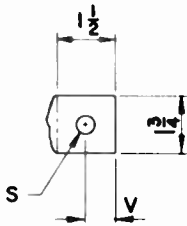


(722B Shown)

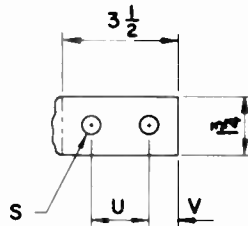
Terminal cat. no.			Groove range						Dimensions			AC	No. of U-bolts	Wt., lbs.
Straight pad	45° pad	90° pad	Diameter		ACSR		Stranded cond.		L for 720 series	H	A			
			Min.	Max.	Min.	Max.	Min.	Max.						
720A	730A	740A	0.162	0.325	6 $\frac{1}{4}$	2 $\frac{1}{4}$	6	2	3 $\frac{3}{4}$	2 $\frac{7}{32}$	1 $\frac{15}{16}$	$\frac{1}{4}$	1	0.3
720B	.....	.....	0.162	0.325	6 $\frac{1}{4}$	2 $\frac{1}{4}$	6	2	5 $\frac{1}{2}$	2 $\frac{7}{32}$	1 $\frac{15}{16}$	$\frac{1}{4}$	1	0.4
721A	731A	741A	0.292	0.502	2 $\frac{1}{2}$	3/0	2	3/0	4 $\frac{1}{4}$	2 $\frac{7}{32}$	1 $\frac{15}{16}$	$\frac{3}{8}$	1	0.4
721B	.....	.....	0.292	0.502	2 $\frac{1}{2}$	3/0	2	3/0	6	2 $\frac{7}{32}$	1 $\frac{15}{16}$	$\frac{3}{8}$	1	1.0
722A	732A	742A	0.464	0.743	3/0	397.5 $\frac{1}{4}$	3/0	400	6 $\frac{1}{2}$	3 $\frac{1}{16}$	2 $\frac{9}{16}$	$\frac{1}{2}$	2	1.2
722B	732B	742B	0.464	0.743	3/0	397.5 $\frac{1}{4}$	3/0	400	8 $\frac{1}{4}$	3 $\frac{1}{16}$	2 $\frac{9}{16}$	$\frac{9}{16}$	2	1.3
722D	.....	.....	0.464	0.743	3/0	397.5 $\frac{1}{4}$	3/0	400	8 $\frac{1}{4}$	3 $\frac{1}{16}$	2 $\frac{9}{16}$	$\frac{9}{16}$	2	1.6
723B	733B	743B	0.743	1.152	397.5 $\frac{1}{4}$	795 $\frac{2}{4}$	450	1000	10 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{9}{16}$	1 $\frac{1}{16}$	3	3.4
723D	733D	743D	0.743	1.152	397.5 $\frac{1}{4}$	795 $\frac{2}{4}$	450	1000	10 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{9}{16}$	$\frac{1}{2}$	3	3.8

PAD SIZES

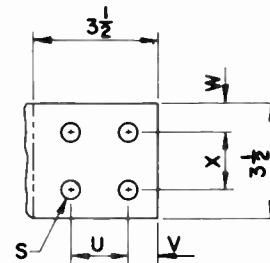
A PAD



B PAD



D PAD

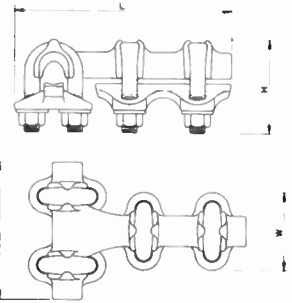


For all stock items: S = $\frac{3}{16}$ "; U = 1 $\frac{1}{4}$ "; V = $\frac{7}{8}$ "; W = $\frac{7}{8}$ "; X = 1 $\frac{1}{4}$ ". Drilled holes are spaced in accordance with NEMA standards.

Price on Application

ALCOA

UNIVERSAL GROOVE TEE CONNECTOR



Catalog number	Run groove size†	Tap groove size	H	L	W	X	Number of bolts		Weight, pounds
							Run	Tap	
701.1	1	1	2 ⁷ / ₃₂	4 ⁹ / ₃₂	1 ¹⁵ / ₁₆	2 ¹ / ₄	1	1	0.4
702.1	2	1	3 ¹ / ₁₆	4 ²⁹ / ₃₂	1 ¹⁵ / ₁₆	2 ¹ / ₄	1	1	0.7
702.2	2	2	3 ¹ / ₁₆	7 ⁹ / ₃₂	2 ⁹ / ₁₆	4 ¹ / ₂	2	2	1.9
703.1	3	1	4 ¹ / ₈	5 ²³ / ₃₂	1 ¹⁵ / ₁₆	2 ¹ / ₄	1	1	1.2
703.2	3	2	4 ¹ / ₈	7 ³¹ / ₃₂	2 ⁹ / ₁₆	4 ¹ / ₂	2	2	2.8
703.3	3	3	4 ¹ / ₈	10 ⁷ / ₃₂	3 ⁹ / ₁₆	6 ³ / ₄	3	3	5.9

Groove number	Universal groove ranges							
	Diameter				ASCR		Stranded aluminum	
	Aluminum		Copper bushed		Min.	Max.	Min.	Max.
	Min.	Max.	Min.	Max.				
1	0.292	0.502	0.257	0.426	2 ⁹ / ₁₆	3/0	2	3/0
2	0.464	0.743	0.414	0.629	3/0	397.5 ¹ / ₁₆	3/0	400 MCM
3	0.743	1.152	0.629	0.929	397.5 ¹ / ₁₆	795 ² / ₁₆	450 MCM	1000 MCM

NOTE:
If copper bushed fittings are required, it must be specified on the order. Note that the groove ranges for copper bushed clamps are different from aluminum groove ranges.

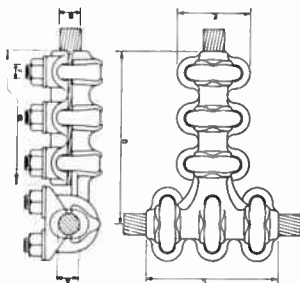
BOLTED TEE CONNECTOR

SPECIFICATIONS FOR ORDERING

State catalog number and also the size, stranding and material of conductor for which dimensions "A" and "B" are to be furnished. Groove specified for copper conductor will be copper bushed unless otherwise ordered.

INSTALLATION INSTRUCTIONS

- Especially if installation is to be made on old conductor, clean the strands with a wire brush or emery cloth.
- Coat the grooves of the clamp and the conductor liberally with Alnox.
- Bolt the tap clamp to the conductors. Tighten the nuts "finger-tight," then partially tighten each nut alternately until all are equally torqued.



Catalog Number	Nominal weight, pounds	Maximum conductor dia., inches		Number of U-bolts	Dimensions in inches			
		Aluminum groove	†Copper bushed groove		C	D	E	F
294	4.5	0.930	0.772	6	5 ¹ / ₂	7 ¹ / ₁₆	3 ¹ / ₄	5 ¹ / ₈
295	5.6	1.140	0.893	6	6 ¹ / ₄	8 ⁵ / ₈	3 ³ / ₈	5 ¹ / ₈
296	8.3	1.300	1.031	6	8	10 ¹ / ₄	4 ¹ / ₂	5 ¹ / ₄
297	14	1.545	1.152	6	9 ¹ / ₄	12 ³ / ₁₆	4 ¹ / ₂	5 ¹ / ₄

Bolts, nuts and washers are aluminum.

Price on Application

INDIANA PREFORMED ARMOR RODS



The simplest, most economical method for effectively reinforcing and protecting overhead conductors and static wire at supports is made possible by mechanically accurate IS&W Preformed Armor Rods.

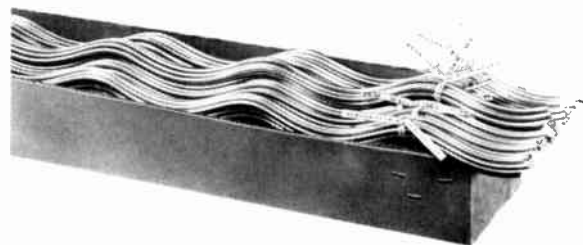
By forming a tight-fitting sheath around the conductors or static wire Preformed Armor Rods eliminate chafing and abrasion, substantially reduce the concentration of bending stresses at the points of support and minimize the possibility of conductor fatigue failure. Completely armoring the conductor against wear at these vulnerable points with IS&W Preformed Armor Rods prolong conductor life. They also protect conductors against arcing and flashovers, help eliminate service interruptions and lower repair costs.

IS&W Preformed Armor rods are made of round, spring-type metals such as aluminum alloy, galvanized steel, copper/steel and bronze. They are manufactured to exacting specifications and are produced to prescribed length and pitch to exactly fit the conductor or static wire to which they are to be applied. Each rod is formed into a spiral with an inside diameter smaller than the conductor so that it grips tightly throughout the conductor's entire life.

The rods, when applied in sets, provide a snug-fitting, compact cylindrical armor over the conductor or static wire and greater clamping area to grip the conductor along the entire rod length. This means increased holding power against imbalanced tensions.

IS&W Preformed Armor Rods are preferred by linemen because they can be applied quickly and easily by hand to cold lines. With a rotary motion of the hands, the rods are "wrapped" along the conductor in both directions. All IS&W Rods are center-marked for easy application. No tools, clamps or clips are required.

PACKAGING



IS&W Preformed Armor Rods are:
 1. Prepacked in marked sets with either "Twist-Ems" or adhesive tape, or
 2. Bulk packed for lower cost purchasing.
 Two packages are available: heavy cardboard cartons with color coded labels for easy warehousing, or water-resistant paper for construction site delivery.

With IS&W "Twist-Ems," a set of Preformed Armor Rods can be worked just as easily with gloves as bare handed. Do not even untwist — just push the paper-wire tie off the end of the set to make each rod ready for installation.

Complete specifications and prices covering the various types and sizes of Preformed Armor Rods are available upon request.

INDIANA PREFORMED LINE-GUARDS



Formed from aluminum alloy wire of smaller diameter and shorter in length than regular Preformed Armor Rods, Line-Guards are designed for shorter spans where working tensions are comparatively low. They provide conductors with effective and economical protection against damaging abrasion and wear at support points. They are generally used in urban distribution systems where problems of vibration are secondary and where insulated wires pass through trees. IS&W Preformed Line-Guards are also available for ACSR and all-aluminum conductors.

**COPPERWELD
TELEPHONE LINE WIRE**



Use Copperweld Line Wire wherever you need to combine strength with good conductance. It is non-rusting, light in weight, easy to handle and economical to string.

Copperweld's voice transmission characteristics are better than any other high-strength conductor. The permanent high strength of Copperweld permits safer long spans that stand up under severe weather conditions.

For long distance and carrier current lines, the recommended sizes are .128-in. 40% conductivity High Strength and .104-in. 40% conductivity High Strength. The choice usually depends on electrical requirements. For short subscriber loops, the .080-in. 30% conductivity Extra High Strength Copperweld Wire has adequate conductance and is most economical. For longer loops where the electrical requirements are more demanding, use .104-in. 40% or .080-in. 40% High Strength Copperweld.

Diameter In.	Breaking Strength Lbs.	Weight		DC Resistance Ohms Per 1000 Ft. at 68° F.	Cross Section Sq. In.
		Lbs. Per 1000 Ft.	Lbs. Per Mile		
H. S. 40% Conductivity					
.128	1647	45.47	240.1	1.614	.01287
.104	1177	30.01	158.5	2.445	.008495
.080	770	17.76	93.77	4.133	.005027
E. H. S. 30% Conductivity					
.080	900	17.76	93.77	5.509	.005027

**COPPERWELD
GRIP-FLEX INSULATOR TIES**



Use Copperweld Grip-Flex Ties wherever Copperweld line wires are being tied to pin-type insulators. This preformed tie assures uniformity of construction—reinforces the conductor over the entire length of the tie and prevents chafing of conductors. It's strong, non-rusting, simple in design, easy and inexpensive to apply. When ordering specify the size of the line conductor. Each tie consists of one preformed Copperweld Reinforcing Wire plus a length of straightened, annealed Copperweld Binding Wire sufficient for making a pigtail type of binding on any standard type of side groove insulator.

Complete Grip-Flex Tie packed in bundles of 100.

No.	Approx. Weight Per 100 Ties	Line Wire Size, In.
GFC-78	14 Lbs.	.128
GFC-910	8 Lbs.	.104
GFC-1012	7 Lbs.	.080

**ALUMOWELD
TELEPHONE LINE WIRE**



Alumoweld's low initial cost and high tensile strength (almost 200,000 psi) make it an ideal choice for rural telephone lines. The rugged strength of Alumoweld permits use of extra-long spans for economical construction, while its thick aluminum cladding (10% of the wire's radius) provides permanent protection against corrosion and excellent transmission qualities. In fact, at carrier frequencies, Alumoweld's electrical properties are equal to or better than those of solid aluminum wire.

**Table of Characteristics
Alumoweld Wire**

Size Awg	Nominal Dia. Inch	Breaking Load (Lbs.) (Minimum)	Lbs. per 1000 Ft.	Lbs. per Mile	Resistance Ohms per 1000 Ft. at 68° F.	Cross-Section	
						Cir. Mils	Sq. In.
8	.1285	2,529	37.03	195.6	3.089	16510	.01297
10	.1019	1,590	23.29	123.0	4.912	10380	.008155
11	.0907	1,261	18.47	97.52	6.194	8230	.00646

Coefficient of linear expansion: .0000072 per degree Fahrenheit.
Modulus of Elasticity: 23,500,000 lbs. per square inch.

Weight of Coils or Reels

The wire shall be shipped in coils or on reels, continuous for their entire length, with no joints or splices therein.

Shipments shall be made up of coils or reels with weights as follows:

Nominal Weight	90% or more of total of coils or reels in a shipment will have weights within the range:		10% or less of total coils or reels in a shipment may have a minimum weight as follows*
	Lbs.	Minimum Lbs.	Maximum Lbs.
300	260	340	200
200	175	250	125

*In small shipments of less than 10 coils or reels, one coil or reel may be in this category. The nominal weight of coils or reels desired shall be specified on the purchase order.

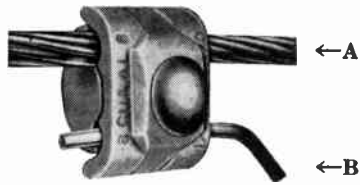
Packing and Marking

Each coil shall be thoroughly wrapped with strong paper, so as to be protected against damage in ordinary handling and transportation. Each coil shall have a tag attached showing type and size of wire, the weight of the coil, the name and address of the purchaser and purchaser's order number.

Price on Application

BURNDY ELECTRICAL CONNECTORS

TAPIT® TYPE UC-R



Aluminum parallel groove clamp for all combinations of copper, aluminum, and ACSR. Each Tapit accommodates a wide range of aluminum, Copper, ACSR, ACSR over armor rod, Copperweld, Amerductor, and steel conductors in any combination.

Stripsealed Tapits are also available, filled with Penetrox A at the factory and sealed with special plastic coating. They may be ordered by adding suffix "S" to the catalog numbers listed below.

Cat. No.	Groove A		Groove B		Cat. No.
	Min.	Max.	Min.	Max.	
Aluminum or Copper Conductor					
UC25R2R	#8 Sol.	1/0 Str.	#8 Sol.	#2 Str.	
UC28R	1/0 Str.	4/0 Str.	#8 Sol.	1/0 Str.**	
UC32R	1/0 Str.	350 Mem.	#6 Sol.	2/0 Str.	
UC33R	4/0 Str.	400 Mem.	#6 Sol.	2/0 Str.	

Cat. No.	ACSR Conductor		Cat. No.
	Min.	Max.	
UC25R2R	#6	1/0	#2
UC28R	1/0	4/0	#6
UC32R	1/0	336.4 (26-7)	1/0
UC33R	3/0	336.4 (30-7)	2/0

Price Per 100 (100-499)

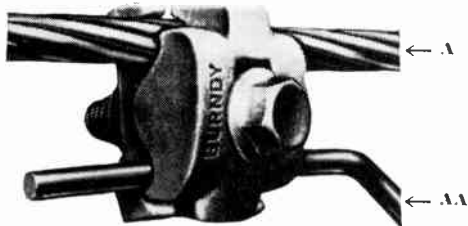
UC25R2R \$29.45 UC32R \$45.60 UC33R \$62.20
UC28R 42.60

*Maximum recommended combinations: 1/0 aluminum or ACSR RUN—#2 str. copper TAP; 1/0 copper RUN—1/0 aluminum or ACSR TAP.

**Maximum recommended combinations: 4/0 aluminum or ACSR RUN—#2 Str. copper TAP.

TAPIT TYPE UCG-RS

For All Combinations of Copper, Aluminum, ACSR, AAAC and 5005 Within Diameter Range



These parallel groove clamps for overhead line and service connections are factory-filled with Penetrox A and Stripsealed.

Each Tapit accommodates a wide range of aluminum, copper, ACSR, ACSR over armor rod, copperweld, Amerductor, and steel conductors in any combination. High strength, high conductivity, non-copper bearing aluminum alloy of which Tapits are made eliminates stress corrosion.

Copper or Aluminum	Groove A		Groove AA		Copper or Aluminum	ACSR	Cat. No.
	Min.	Max.	Min.	Max.			
No. UCG25R2RS							
8 Sol.	1/0 str	8	1/0	8 Sol.	2 str	8	2
No. UCG25RS							
8 Sol.	1/0 str	6	1/0	8 Sol.	1/0 str	6	1/0

Price Per 100 (100-499)

UCG25R2RS \$35.10 UCG25RS \$40.30

Also available without Stripseal—to order, omit "S" from the Catalog Number.

CABELOK CRIMPIT® TYPES YP-U AND YPC-U

For Combinations of Copper, Aluminum or ACSR



For copper, aluminum and ACSR—Range-taking design reduces number of sizes necessary for all conductor combinations. Movable spacer locks connector on conductor. Side entrance facilitates hot-line installations. No tabs to bend. Penetrox filled.

Copper or Alum.	Groove 'A'		Groove 'AA'		Cat. No.
	ACSR	Color Code	Copper or Alum.	ACSR	
2 sol. 2 str.	4-2	Brown	2 str. 2 sol.	4-2	Br'n YP2U2
1/0-2/0 str.	2-1/0	Grey	4 str. 2 sol. 2 str.	4-2	Br'n YP26AU2†
1/0 str.	2-1/0	Black	1/0 str.	1/0	Blk. YP25U25
1/0-3/0 str.	1/0-2/0	Maroon	4 sol. 4 str.	6-4	Wh. YP27AU4
1/0-3/0 str.	1/0-2/0	Maroon	2 sol. 2 str.	4-2	Grey YP27AU2
2/0-3/0 Str.	2/0	Maroon	1/0-2/0	1/0-2/0	Pink YP27AU26
3/0-4/0 str.	3/0-4/0	Red	6 sol. 6 str. 4 sol. 4 str.	6-4	Wh. YPC28U4*
4/0 str.	3/0-4/0	Red	4 str. 2 sol. 2 str.	4-2	Grey YP28U2
4/0 str.	3/0-4/0	Red	1/0-2/0	1/0-2/0	Pink YP28U26
3/0-4/0 str.	3/0-4/0	Red	2/0-4/0	2/0-4/0	Red YPC28U28*

†Does not accommodate 2/0 Str. Cu. *Not reversible.

UNIVERSAL CRIMPIT® TYPE YPC



Extra wide range universal connector. One die and 4 connectors take run sizes 250-600, and tap sizes 6-400. Wide range made possible by long ram travel of Burndy Hypress tools. Figure "6"-shape separates run and tap wires, and minimizes galvanic corrosion of conductors. Connector can be gripped in tool and slipped over line for easy installation. Prefilled with Penetrox joint compound and Stripsealed.

Cat. No.	Run		Cat. No.
	Alum. & Copper	ACSR, AAAC, 5005	
YP033R26U	250(37)-400(37)	266.8(18-1)-397.5(18-1)	397.5(26-7)-556.5(18-1)
YPC33R28R	250(37)-477(37)		
YPC33R33R	250(37)-400(37)		
YPC38R26U	477(19)-600(61)		
Tap			
YPC33R26U	6 Sol.-2/0(19)	6-1/0	
YPC33R28R	2/0(19)-4/0(19)	2/0-4/0	
YPC33R33R	250(37)-400(37)	266.8(18-1)-397.5(18-1)	
YPC38R26U	6 Sol.-2/0(19)	6-1/0	

Price on Application

BURNDY ELECTRICAL CONNECTORS

CRIMPIT COVER TYPE CC



High density polyethylene cover accommodates most industry connectors in the O, D and N die range. Four sizes cover the full #6-600 mcm conductor range. One piece design, no extra hardware needed, simply slip over connector and snap shut.

Cat. No.	Maximum Connector Length	Connector Series Accommodated	Per 100
CCO	2 1/2	O Die	\$16.45
CCD	2 3/4	D Die	21.95
CCN	2 1/8	Short N Die	32.95
CCNL	4 7/8	Long N Die and YP28U26	54.95

COPPER CRIMPIT TYPE YC-C



Range-taking compression tap connector made of pure copper. Designed to be gripped in the jaws or dies of installation tool, then slipped directly over line for easy installation.

Cat. No.	Run	Tap	Per 100
YC10C10	12 Sol.-10 Str.	12 Sol.-10 Str.	\$ 3.57
YC8C8	8 Sol.- 8 Str.	10 Sol.- 8 Str.	14.84
YC4C8	6 Sol.- 4 Str.	8 Sol.- 8 Str.	25.07
YC4C6		6 Sol.- 6 Str.	25.07
YC4C4		4 Sol.- 4 Str.	25.07
YC2C4		8 Sol.- 4 Str.	37.61
YC2C2	2 Sol.- 2 Str.	2 Sol.- 2 Str.	37.61
YC26C4	1/0 Str.-2/0 Str.	4 Sol.- 4 Str.	82.51
YC26C2		2 Sol.- 2 Str.	82.51
YC26C26	3/0 Str.-4/0 Str.	1/0 Str.-2/0 Str.	82.51
YC28C2		4 Sol.- 2 Str.	109.88
YC28C26	3/0 Str.-4/0 Str.	1/0 Str.-2/0 Str.	109.88
YC28C28		3/0 Str.-4/0 Str.	109.88

ALUMINUM CRIMPIT TYPE YC-A



Range - taking, C-shaped aluminum compression tap, or dead-ending connector designed to eliminate effects of cold flow. Can be gripped in tool and slipped over line for easy crimping. Prefilled with Penetrox joint compound and Strip sealed.

Can be gripped in tool and slipped over line for easy crimping. Prefilled with Penetrox joint compound and Strip sealed.

Cat. No.	Run		Tap	ACSR, AAAC
	Aluminum	ACSR, AAAC, 5005	Aluminum	
YC4A6	6 Sol.-4 Str.	6	6 Sol. & Str.	5005
YC4A4	2 Sol. & Str.	4-2	4 Sol. & Str.	6
YC2A6			6 Sol. & Str.	6
YC2A4			4 Sol. & Str.	6
YC2A2			2 Sol. & Str.	4-2
YC25A4	1/0 Str.	1/0	6 Str.-4 Str.	6-4
YC25A2	1/0 Str.-2/0 Str.		2 Sol. & Str.	2
YC25A25		1/0 Str.-2/0 Str.	1/0 Str.-2/0 Str.	1/0
YC26A3	1/0 Str.-2/0 Str.		6 Str.-2-Sol.	6-4
YC26A2		1/0 Str.-2/0 Str.	2 Str.	2
YC26A25	1/0 Str.-2/0 Str.		1/0 Str.	1/0
YC26A26		3/0 Str.-4/0 Str.	2/0 Str.	2/0
YC28A2	3/0 Str.-4/0 Str.		6 Sol.-2 Str.	6-2
YC28A25		3/0 Str.-4/0 Str.	1/0 Str.	1/0
YC28A26	3/0 Str.-4/0 Str.		2/0 Str.	2/0
YC28A28		300-397.5	3/0 Str.-4/0 Str.	3/0-4/0
YC33R26	336.4{18-1}		2 Str.-2/0 Str.	2-1/0
YC33R28		{26-7}	2/0 Str.-4/0 Str.	2/0-3/0

Per 100			
YC4A6	\$18.15	YC25A2	\$22.22
YC4A4	18.15	YC25A25	43.67
YC2A6	21.84	YC26A3	43.67
YC2A4	21.84	YC26A2	43.67
YC2A2	21.84	YC26A25	43.67
YC25A4	22.22	YC26A26	43.67
		YC28A2	\$43.67
		YC28A25	43.67
		YC28A26	43.67
		YC28A28	43.67
		YC33R26	100.29
		YC33R28	100.29

INSULINK® TYPE ES

For Copper, Aluminum, ACSR, AAAC and 5005 In Any Combination Within Diameter Range #10 Str.—1/0 Str. Copper or Aluminum #6—#2 ACSR



Insulink Type ES, for copper, aluminum and ACSR—Insulated aluminum sleeve eliminates all lapping. End caps seal out moisture, hold cables for easy installation. Color coded and filled with Penetrox.

Conductor		Color		Conductor		Color		Cat. No.
† ACSR	‡ Alum.	†	‡	† ACSR	‡ Alum.	†	‡	
10 str. 8 sol.	10 str. 8 sol.	Br		10 str. 8 sol.	10 str. 8 sol.	Br		ES-8W8W
8 str. 6 sol.	8 str. 6 sol.	Gr		10 str. 8 sol.	10 str. 8 sol.	Br		6W8W
				8 str. 6 sol.	8 str. 6 sol.	Gr		6W6W
				10 str. 8 sol.	10 str. 8 sol.	Br		4W8W
6(6-1)	5,6 str. 4 sol.	5,6 str. 4 sol.	Bl	8 str. 6 sol.	8 str. 6 sol.	Gr		4W6W
				6(6-1)	5,6 str. 4 sol.	5,6 str. 4 sol.	Bl	4W4W
				10 str. 8 sol.	10 str. 8 sol.	Br		2W8W
4(6-1)	3,4 str. 2 sol.	3,4 str. 2 sol.	Or	8 str. 6 sol.	8 str. 6 sol.	Gr		2W6W
4(7-1)	2 sol.	2 sol.		6(6-1)	5,6 str. 4 sol.	5,6 str. 4 sol.	Bl	2W4W
				4(6-1)	3,4 str. 2 sol.	3,4 str. 2 sol.	Or	2W2W
				10 str. 8 sol.	10 str. 8 sol.	Br		2R8W
				8 str. 6 sol.	8 str. 6 sol.	Gr		2R6W
2(6-1)	1 str.	1 str.	Red	6(6-1)	5,6 str. 4 sol.	5,6 str. 4 sol.	Bl	2R4W
2(7-1)	2 str.	2 str.		4(6-1)	3,4 str. 2 sol.	3,4 str. 2 sol.	Or	2R2W
				4(7-1)	2 sol.	2 sol.		2R2R
				2(6-1)	1 str.	1 str.	Red	2R2R
				2(7-1)	2 str.	2 str.		
				8 str. 6 sol.	8 str. 6 sol.	Gr		25A-6W
				6(6-1)	5,6 str. 4 sol.	5,6 str. 4 sol.	Bl	25A-4W
1/0 str.	1/0 str.	Yel		4(6-1)	3,4 str. 2 sol.	3,4 str. 2 sol.	Or	25A-2W
				4(7-1)	2 sol.	2 sol.		25A2R
				2(6-1)	1 str.	1 str.	Red	25A2R
				2(7-1)	2 str.	2 str.		25A-25A

Per 100: \$22.30

†Will accommodate compresto ACSR.

‡Will accommodate compresto aluminum.

5/8" LINKIT® TYPE YSU



Heavy-walled aluminum tubing with solid barrier minimizes galvanic corrosion of conductors. Accommodates neutral strands of Type SE Service Entrance conductor as well as other conductors. Installed with standard tooling. Color coded, Prefilled with Penetrox joint compound and Stripseal.

.840" LINKIT TYPE YSD



Aluminum compression sleeve with solid center barrier. Designed for commercial and heavy residential services. Installed with standard tooling. Prefilled with Penetrox joint compound, and capped.

Price on Application

BURNDY ELECTRICAL CONNECTORS

DEADEND CLAMP CLIPIT TYPE UW-R



High strength aluminum casting with galvanized steel U-bolt, extra long soft aluminum spacer, and caps that confine strands. Holding strength of installations using two Clipit deadends exceeds rated breaking strength of conductor.

Cat. No.	ACSR AAAC	Aluminum	Per 100
UW2R	6-2	6 str.- 2 str.	\$48.30
UW25R	6-1/0	6 str.-2/0 str.	56.40

DEADEND CLAMP TYPES CUW-A-E AND CUW-R-E



High strength aluminum clamp for deadending primary distribution lines. Straight-line design, with hot stick lifting-eye, pulling-eye, and captured, angle U-bolts, facilitates

installation and maintenance, especially on hot-line work. Snub-pocket, V-shaped, range-taking conductor groove and galvanized steel U-bolts provide high holding strength.

Cat. No.	Aluminum	ACSR, AAAC, 5005	Per 100
CUW26R-E	2 str.-2/0(19)	4-2/0	\$165.00
CUW30A-E	1/0(7)-300	1/0-266.8(18-1)	246.75
CUW32R-E	3/0(7)-350	3/0-336.4(26-7)	259.35
CUW361R-E	250-500	4/0-477(18-1)	259.35
CUW391A-E	336.4-795	300(26-7)-636(26-7)	413.70

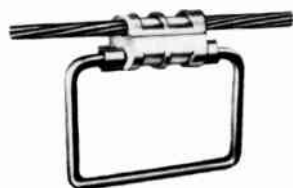
DEADEND CLAMP TYPE CUW-E



High strength, two-bolt, cast copper alloy strain clamp with single saddle designed for short span distribution and strain bus applications. Galvanized steel clevis pin, and U-bolts.

Cat. No.	Conductor Range	Each
CUW34-E	4/0 str.-500	\$ 8.50
CUW44-E	500-1000	11.40

HOT-LINE CLAMP ADAPTER TYPES YCB-U AND YCB-R-U



Combines Figure "6"-shaped aluminum Crimpit tap connector with tin-plated copper ball. Can be gripped in tool and slipped over line for easy installation. Five sizes take range from #4 to

600 Mcm. Pre-filled with Penetrox joint compound and Stripsealed.

Cat. No.	Alum. & Copper	ACSR, AAAC, 5005	Per 100
YCB4U1	4 Sol. 4(7)	4	\$126.45
YCB1U1	2(7)-1(7)	2	126.45
YCB28U26	1/0(7)-4/0(19)	1/0-4/0	166.32
YCB33R26U	300(37)-400(37)	266.8(6-7)-336.4(30-7)	183.10
YCB38R26U	397.5(19)-600(61)	336.4(26-7)-556.5(18.1)	225.31

HYSEALUG TYPE YA-2LH



Tin-plated, pure copper 2-hole NEMA compression terminal with shrouded barrel for terminal insulated copper conductor to transformers and other equipment. Shroud prevents seepage of water or moisture into conductor strands and minimizes taping. Refer to Burndy for HYSEALUG terminals for insulated aluminum conductors.

Cat. No.	Conductor	Shroud Inside Dia.	Per 100
YAB4C-2LH72	4 Str.	.57	\$168.75
YAB4C-2LH73	4 Str.	.84	168.75
YAB2C-2LH74	2 Str.	.58	185.63
YAB2C-2LH75	2 Str.	.91	185.63
YAB25-2LH70	1/0 Str.	.69	219.31
YAB25-2LH71	1/0 Str.	.98	219.31
YA26-2LH88	2/0 Str.	.73	253.13
YA26-2LH89	2/0 Str.	1.04	253.13
YA27-2LH97	3/0 Str.	.84	286.81
YA27-2LH98	3/0 Str.	1.06	286.81
YA28-2LH114	4/0 Str.	.86	303.69
YA28-2LH115	4/0 Str.	1.24	303.69
YA29-2LH90	250	.88	337.44
YA29-2LH91	250	1.25	337.44
YA30-2LH85	300	.92	404.94
YA30-2LH86	300	1.32	404.94
YA31-2LH89	350	1.03	480.81
YA31-2LH90	350	1.40	480.81
YA34-2LH110	500	1.14	531.50
YA34-2LH111	500	1.88	531.50

TERMINAL PLUG TYPE YE-LH



Oil and water-tight terminal with shrouded, tin-plated, copper barrel and brazed plug. Recommended for terminating insulated copper conductor at cutout, transformer and arrester, or for joining insulated copper riser to overhead conductor.

Cat. No.	Conductor	Shroud Inside Dia.	Dia.	Per 100
YE4C-LH113	4 Str.	.57	4 Sol.	\$227.81
YE4C-LH114	4 Str.	.84	4 Sol.	227.81
YE2C-LH128	2 Str.	.58	2 Sol.	253.13
YE2C-LH129	2 Str.	.91	2 Sol.	253.13
YE25-LS96	1/0 Str.	.69	1/0 Sol.	295.31
YE25-LH97	1/0 Str.	.98	1/0 Sol.	295.31
YE26-LH88	2/0 Str.	.73	2/0 Sol.	320.56
YE26-LH89	2/0 Str.	1.04	2/0 Sol.	320.56
YE27-LH90	3/0 Str.	.84	3/0 Sol.	337.44
YE27-LH91	3/0 Str.	1.06	3/0 Sol.	337.44
YE28-LH127	4/0 Str.	.96	4/0 Sol.	354.38
YE28-LH128	4/0 Str.	1.24	4/0 Sol.	354.38
YE29-LH82	250	.88	4/0 Sol.	438.69
YE29-LH83	250	1.25	4/0 Sol.	438.69
YE30-LH85	300	.92	4/0 Sol.	480.81
YE30-LH86	300	1.32	4/0 Sol.	480.81
YE31-LH96	350	1.03	4/0 Sol.	506.19
YE31-LH97	350	1.40	4/0 Sol.	506.19
YE34-LH119	500	1.14	4/0 Sol.	548.44
YE34-LH120	500	1.88	4/0 Sol.	548.44

FLAT BAR AND TUBULAR BUS FITTINGS

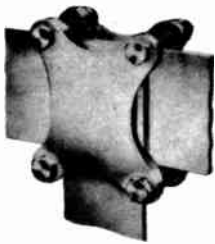
Illustrated on this and the following page are typical Burndy bus connectors available through Graybar. Connectors for flat, square, angle or tubular bus, for cable and for connections between the various conductor types can be furnished to meet your particular installation requirements. For complete information on these and other types, contact your nearest Graybar office or warehouse.

FLAT BAR FITTINGS

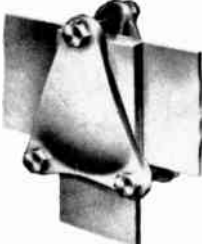
Bar clamps distribute pressure over a wide area. Available for flat bars, or for flat bar to cable, tube or special shapes. Connectors for taps from multiple bars also available.

Either the 4-bolt and cap, or special clamping eye and cap elements are recommended for joining cables to flat bar.

CONNECTORS



Type H Clamp



Type A Clamp

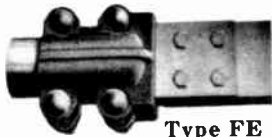


Type FD (Stud Connector)



Type B Flexible Joint

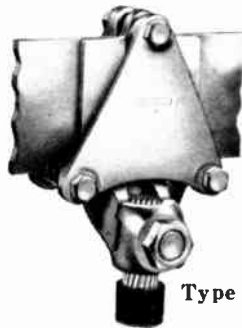
BARTAPS



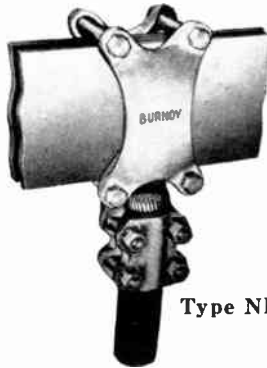
Type FE



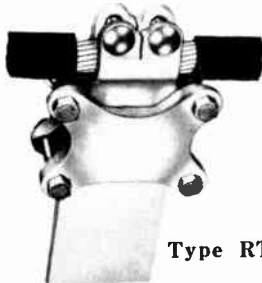
Type FEH



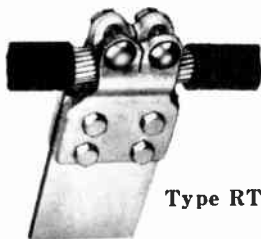
Type QAF



Type NHF



Type RTH



Type RT

BUS SUPPORT CLAMPS



Type HHH



Type SHVH

**TUBULAR BUS FITTINGS
CONNECTORS**



Type NT T-Connector



Type NL Elbow



Type NS Coupler

TERMINALS



Type CB Corona Bell



Type NA Terminal



Type XA Terminal

STUD CONNECTORS



Type XD



Type XDU



Type ND

BUS SUPPORT CLAMPS



Type UH



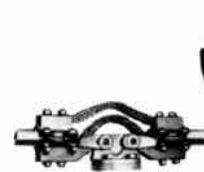
Type LH



Type UHR



Type CHP Suspension Clamp



Type XHP



Type SSH

Price on Application

CABLE AND TUBE-TO-CABLE FITTINGS

**CABLE FITTINGS
TERMINALS**

Shown here are a few of the many variations of Burndy terminals. Compactness and positive clamping action are outstanding features. These terminals can be designed with tongue set at an angle to meet special installation requirements. Many of these terminals accommodate a convenient range of conductors.



Type NA



Type KPA



Type QA-B



Type Q3A



Type VA



Type QB



Type YA-L



Type VF



Type QGFL

T-CONNECTORS



Type NT



Type VT



Type QT

COUPLERS



Type NS



Type QR



Type YSV



Type VR



Type ER



Type YS-L

BUS SUPPORT CLAMPS



Type RHB



Type LH



Type UHR

CABLE FITTINGS

**Range Taking Stud Connectors
Type NDR**

For Cable, Tubing or Flat Bar to Threaded Stud



Constructed of high copper alloy. Has reversible cap that permits full cable, flat bar, or tubular bus range to be taken either in line with the stud or at right angles to it.

12 sizes of NDR line replace the over 100 designs previously used and permit prompt shipment of all sizes.

Only one wrench is required for installations.

PARALLEL TAP CONNECTORS



Type QPX



Type KVS



Type KVSU

PARALLEL CLAMPS



Type CP



Type VP



Type UC

STRAIN CLAMPS



Type DUW



Type BC



Type M
Thimble

TUBE-TO-CABLE FITTINGS

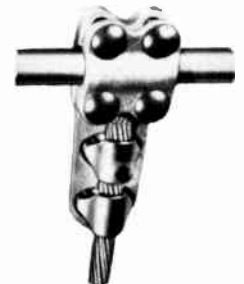
T-CONNECTORS



Type NT



Type NVT



Type NVTT

END CONNECTOR



Type NE

Slots between clamping bolts on many of the connectors shown here cause multiple areas of high-pressure contact, thus assuring minimum contact resistance and minimum heat losses.

Price on Application

BURNDY ELECTRICAL CONNECTORS**FULL-TENSION SLEEVE**

Full tension sleeves for splicing copper, aluminum, ACSR and aluminum alloy cable. Designed to develop full rated breaking strength of the conductor. Order type YDS for copper, YDS-R for ACSR, YDS-A for aluminum. Specify conductor type, size and stranding.

JUMPER SLEEVE

Jumper or loop splice sleeve for copper, aluminum, ACSR and aluminum alloy cable. Designed to withstand jumper loop-tensile and vibration stresses. Order type YCS for copper, YCS-R for ACSR, YCS-A for aluminum. Specify conductor type, size and stranding. Aluminum and ACSR sleeves pre-filled with Penetrox joint compound and sealed.

REPAIR SLEEVE

Repair sleeve for copper, aluminum, ACSR and aluminum alloy cable. Designed to restore conductivity to damaged overhead conductors. Does not restore cables rated breaking strength. Order type YCU, YOU for copper, YCU-R, YOU-R for ACSR, YCU-A, YOU-A for aluminum. Specify conductor type, size and stranding.

JUMPER SLEEVE REDUCER

Jumper sleeve reducer-splice for copper, aluminum, ACSR and aluminum alloy cable. Order type YCR for copper to copper and type YCR-R-G for combinations of copper, aluminum, and ACSR conductors. Type YCR-R-G pre-filled with Penetrox joint compound and sealed. Specify conductor types, sizes and strandings.

COMPRESSION TERMINAL

Compression terminal for joining copper, aluminum, ACSR and aluminum alloy conductors to copper or aluminum equipment pads. Order type YCA for copper, YCA-A for aluminum and YCA-R for ACSR. Types YCA-A and YCA-R pre-filled with Penetrox joint compound and sealed. Specify conductor type, size and stranding.

COMPRESSION DEADEND TYPE YDW-R

Full-tension compression deadend ACSR conductor. Designed to develop the full rated breaking strength of the conductor. Available with single or double tongue. Assembly consists of aluminum body, threaded steel insert with steel sleeve and clevis pin. Filler-hole and plug provide for injection of Penetrox joint compound prior to compression of the aluminum outer body.

DISCONNECTABLE T-TAP TYPE YTA-R-2N

Aluminum primary T-tap connector with slotted tap pad designed for easy disconnecting of tap connector. Tap pad accommodates compression terminals Types YKA-R-2N and YKA-A-2N, and has positioning socket for proper alignment. On sizes larger than 336.4 ACSR, the YTA-R-2N run element has two-piece interlocking key with lifting eye that simplifies hot line installations. Catalog number does not include mating terminal.

**DISCONNECTABLE TERMINAL TYPES
YKA-R-2N AND YKA-A-2N**

Aluminum compression terminal with fixed hardware and positioning pin for making disconnectable tap or jumper connections. Used with slotted YTA-R-2N T-tap or YSA-R-2N terminal. Supplied with aluminum bolts and washer-face, self-locking nuts. Prefilled with Penetrox joint compound and capped.

**DISCONNECTABLE TERMINAL TYPES
YSA-R-2N AND YSA-WA-2N**

Aluminum compression terminal with slotted pad and positioning socket for making disconnectable tap or jumper connections. Used with YKA-R-2N fixed hardware terminal. Prefilled with Penetrox joint compound and capped.

Price on Application

BURNDY COMPRESSION TOOLS

Y10M HYTOOL®



Light, powerful and easy to use, this Hytool cuts wire, strips insulation, compresses Hydent connections on wire sizes #22 thru #10. Tool also closes insulation grips, and has effective bolt and thread-chaser. Weight: 10½ oz., Length: 9¾".

MY29-3 HYTOOL



Sturdy steel, universal, hand-operated Hytool for installing Hydent connectors. Accommodates range of copper conductor #8 str. to 250 Mem. Aluminum conductor range accommodates #8 Str. to 4/0 Str. No removable dies required. Indexing plate located on side of tool is used for setting adjustable nest die to correct position for each assembly. Weight: 6½ lbs.

Y34A HYPRESS®



Portable, manually operated, neoprene insulated, hydraulic Hypress for installing connectors on #6 Str. through 500 Mem. copper cable. Develops 18,000 lbs. Depth of indentation automatically controlled. Supplied with metal carrying case. Separate nest die required to install each conductor size. Dies must be ordered separately. Weight: 9 lbs. Length: 18¾".

OH25 ONE-HAND TOOL



For installing INSULINK and LINKIT connector — only one crimp per end. Develops 5500 lbs. of force, with a series of easy ratchet controlled strokes. Depth of indent automatically controlled. Weight 2½ lbs. Length 12". Leather holster available — order separately Cat. #4583.

MD6-8 HYTOOL



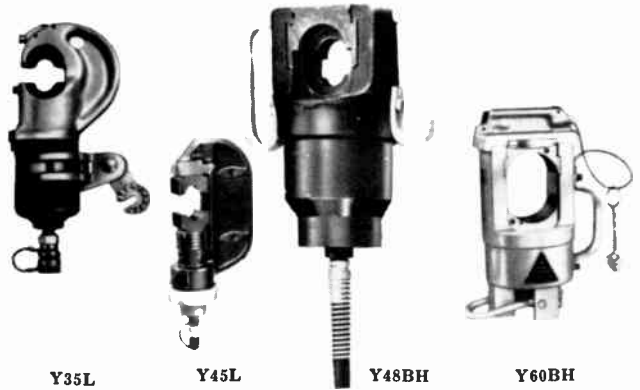
Standard HYTOOL with "fixed" 0 and D3 grooves. Installs all CABELOK CRIMPIT connectors without changing dies, with W-BG die insert INSULINK and LINKIT connectors with one squeeze per end. Installs tension sleeves thru 4/0 with replaceable die inserts.

Y35 HYPRESS



Hook-head hydraulic Hypress for overhead line and industrial requirements. Develops over 12 tons of force, weighs 13 lbs., body completely covered with molded neoprene insulation. Accommodates a full range of connectors from #8 solid aluminum and copper through 477 ACSR. Crimp depth is controlled by butting of dies and overload valve.

COMPRESSION HEADS



Y35L

Y45L

Y48BH

Y60BH

Four compression heads capable of installing industrial, service or transmission type connectors. Each head requires a separate hydraulic pump. Units operated by air, electricity, hydraulic or gasoline are available for these heads.

Type Y35L, Y35BH	.....12 ton capacity
Type Y45L, Y45	.....15 ton capacity
Type Y48BH, Y486RBH	.....40 ton capacity
Type Y60BH	.....60 ton capacity

ELECTRICALLY DRIVEN PUMP



Y-AC-2H

Y-EP

The electrically driven pump is available as a light weight automatic portable (Y-AC-2H) or a heavy duty (Y-EP). The Y-AC-2H features the unique "HOLD", "CRIMP" and "OFF" remote control system. "HOLD" advances ram to gently grip the connector, "CRIMP" completes cycle and shuts pump off. Y-EP has remote control for off/on operation. Both types available with 6,000, 8,800, or 10,000 PSI settings.

AIR HYDRAULIC PUMP



Y-NP

Y-GP

Type Y-NP air hydraulic pump particularly suited for use in areas where an air compressor capable of producing 150 psi at 15 C.F.M. is available. Type Y-GP gasoline driven pump is ideal for operation in remote areas where external power sources are not available. Type Y-FP foot pump is a light weight, portable, economical pump ideally suited where an automatic unit is not required.

Price on Application

PREFORMED



PREFORMED Splices*

PREFORMED Splices for guy and messenger strand provide a fast, simple and economical means of repairing strand or messenger damage plus the assurance of a uniform application every time. No tools required, no guesswork involved and all applications can be checked visually. Will permit the spinner to travel over the splice without adjusting the gates or lifting the spinner over the splice.

They are made of the same material as the strand. Maximum strength and excellent fatigue characteristics result in longer life for strand and messenger.

Galvanized Steel

Catalog No.	Nominal Strand Size & Type	Units Per Carton
GLS-2115	3/8" Utility Grade	100
GLS-2117	3/8" Utility Grade	50
GLS-2118	3/8" Utility Grade	50
GLS-2119	3/8" Utility Grade	25
GLS-2120	1/2" Utility Grade	25
GLS-2104	1/4" EHS Figure 8 Messenger	50

*For utility grade strand only—splices for EHS strand and other material also available.

**For Open Wire and Figure 8 Wire
PREFORMED Splices**



These splices are excellent for mid-span splicing during new construction or to repair abraded or severed line wire at tie points. Restore full strength and conductivity. No tools needed—no wire cutting. Provide armor protection at tie.

For Galvanized Steel Wire

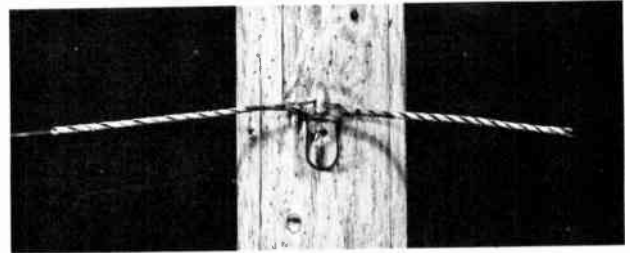
Catalog No.	Wire Gauge	Diameter	Length	Color Code
GLS-3101	12BWG	.109"	12"	Black
*GLS-3106	12BWG	.109"	30"	Black
GLS-3103	10BWG	.134"	14"	Orange

For Copper-Covered Steel and Alumoweld

CWLS-7100	12AWG	.080-.081"	12"	Green
*CWLS-7106	12AWG	.080-.081"	30"	Green
CWLS-7102	10AWG	.102-.104"	12"	Blue
*CWLS-7108	10AWG	.102-.104"	30"	Blue
AWLS-5101	11AWG	.091-.095"	12"	Green
*AWLS-5107	11AWG	.091-.095"	30"	Green

*Special length, to be used at transposition points.

**PREFORMED Dead-Ends and
Tangent Supports (C-Rural)**



PREFORMED dead-ends provide a positive and inexpensive way of dead-ending one-pair aerial distribution wire to a drive hook, eye bolt or through-bolt.

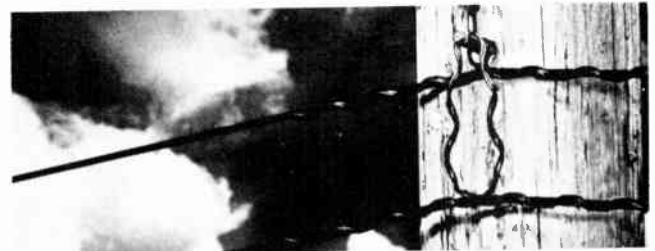
Catalog No.	Nominal Conductor Size
NDE-8502	2 No. 14CW
NDE-8503	2 No. 12CW (or .083 steel)

PREFORMED standard loop and elongated loop tangent supports provide a fast, easy way to hang and separate two one-pair aerial wires on a common drive hook. The one-piece crossarm tangent support cradles and protects the wires against contact with the crossarm without the use of separate protective material. For use on long spans for greater ground clearance, and on poles where climbing clearance is needed.



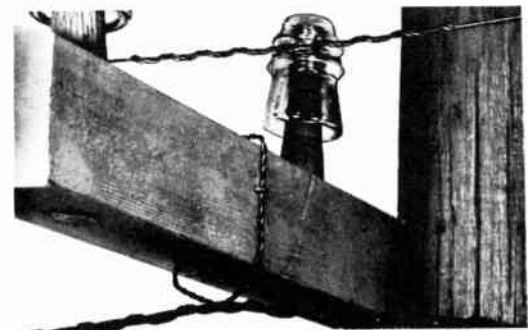
Standard Loop

Catalog No.	Nominal Conductor Size
TS-2100	2 No. 14CW
TS-2103	2 No. 12CW (or .083 steel)



Elongated

Catalog No.	Nominal Conductor Size
ETS-2101	2 No. 14CW
ETS-2104	2 No. 12CW (or .083 steel)

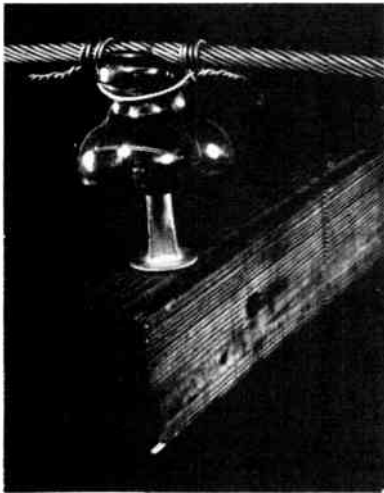


Crossarm

Catalog No.	Nominal Conductor Size
CTS-2102	2 No. 14CW
CTS-2105	2 No. 12CW (or .083 steel)

Price on Application

**PREFORMED
Armor Rods For Aluminum Based Conductors ***

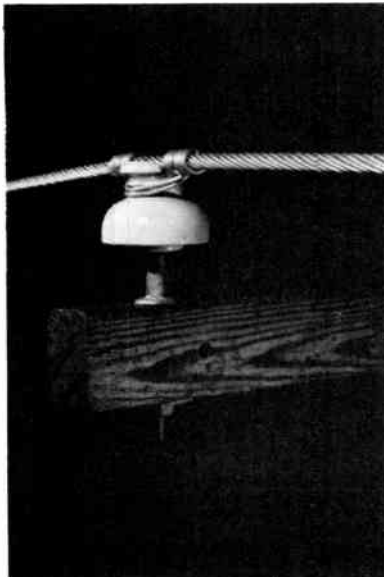


Armor Rods are intended to protect against bending, compression, abrasion, and arc-over, and to provide repair.

Armor Rods are recommended as minimum protection for clamp-type supports or suspensions. Armor Rods are recommended as minimum protection for use with hand-tied spans of 300 feet or more.

Catalog Number	Diameter Range Min. Max.	Nominal Cond. Size	Sets Per Carton	Rods Per Set	Length (Inches)	Rod Diameter (Inches)	Color Code
AR-0110 AR-0310	.244 — .259	Swan	50	7	40 (S) 52 (D)	.146	Orange
AR-0111 AR-0311	.260 — .273	#3, 7W AA	50	7	42 (S) 54 (D)	.146	Green
AR-0112 AR-0312	.274 — .289	#3, 7W AAAC	50	8	42 (S) 54 (D)	.146	Yellow
AR-0113 AR-0313	.290 — .308	#2, 7W AA	50	8	42 (S) 54 (D)	.146	Purple
AR-0114 AR-0314	.309 — .326	Sparrow	50	9	44 (S) 56 (D)	.136	Red
AR-0115 AR-0315	.327 — .346	#1,7W AA	50	9	46 (S) 58 (D)	.146	Blue
AR-0116 AR-0316	.347 — .366	Robin	50	9	48 (S) 60 (D)	.146	Green
AR-0117 AR-0317	.367 — .389	Grouse	50	10	50 (S) 62 (D)	.146	Black
AR-0118 AR-0318	.390 — .413	Raven	50	9	52 (S) 64 (D)	.167	Yellow
AR-0119 AR-0319	.414 — .436	#2/0, 7W AA	50	10	52 (S) 64 (D)	.146	Brown
AR-0120 AR-0320	.437 — .463	Quail	50	10	54 (S) 66 (D)	.167	Blue
AR-0121 AR-0321	.464 — .490	Minorca	50	10	54 (S) 66 (D)	.167	Green
AR-0122 AR-0322	.491 — .521	Pigeon	25	11	56 (S) 68 (D)	.167	Orange
AR-0123 AR-0323	.522 — .551	Leghorn	25	11	58 (S) 70 (D)	.167	Black
AR-0124 AR-0324	.552 — .585	Penguin	25	11	60 (S) 72 (D)	.182	Red

Line Guards For Aluminum Based Conductors *



Line Guards are intended to protect against abrasion and arc-over, and to provide repair.

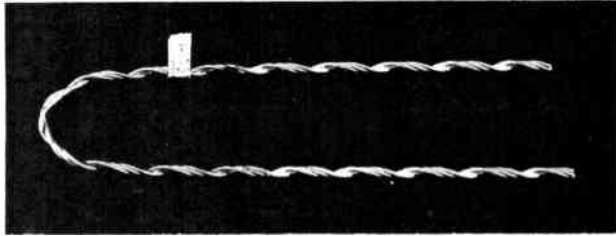
Line Guards are recommended as minimum protection for hand-tied spans of less than 300 feet in urban construction having no experience of vibration.

Catalog Number	Diameter Range Min. Max.	ACSR	Nominal Cond. Size AA	Sets Per Carton	Rods Per Set	Length (Inches)	Rod Diameter (Inches)	Color Code
MG-0126 MG-0309	.229 — .243		#4, 7W	100	8	19 (S) 31 (D)	.121	Brown
MG-0127 MG-0310	.224 — .259	#4 ^{6/1} _{7/1}		100	8	19 (S) 31 (D)	.121	Orange
MG-0128 MG-0311	.260 — .273		#3, 7W	100	8	19 (S) 31 (D)	.121	Green
MG-0129 MG-0312	.274 — .289			100	9	21 (S) 33 (D)	.121	Yellow
MG-0130 MG-0313	.290 — .308		#2, 7W	100	9	21 (S) 33 (D)	.121	Purple
MG-0131 MG-0314	.309 — .326	#2 ^{6/1} _{7/1}		100	9	21 (S) 33 (D)	.121	Red
MG-0132 MG-0315	.327 — .346		#1, 7W	100	10	21 (S) 33 (D)	.121	Blue
MG-0133 MG-0316	.347 — .366	#1, 6/1		100	10	23 (S) 35 (D)	.121	Green
MG-0134 MG-0317	.367 — .389		#1/0, 7W	100	11	23 (S) 35 (D)	.121	Black
MG-0135 MG-0318	.390 — .413	#1/0, 6/1		100	11	25 (S) 37 (D)	.121	Yellow
MG-0136 MG-0319	.414 — .436		#2/0 7W	50	12	25 (S) 37 (D)	.121	Brown
MG-0137 MG-0320	.437 — .463	#2/0 ^{6/1} _{7/1}		50	13	27 (S) 39 (D)	.121	Blue
MG-0138 MG-0321	.464 — .490		#3/0 7-19W	50	13	27 (S) 39 (D)	.121	Green
MG-0139 MG-0322	.491 — .521	#3/0, 6/1		50	14	29 (S) 41 (D)	.121	Orange
MG-0140 MG-0323	.522 — .551		#4/0 7-19W	50	14	29 (S) 41 (D)	.121	Black
MG-0141 MG-0324	.552 — .585	#4/0, 6/1		50	15	31 (S) 43 (D)	.121	Red
MG-0142 MG-0325	.586 — .606			50	14	31 (S) 43 (D)	.146	Black
MG-0143 MG-0326	.607 — .630			50	14	33 (S) 45 (D)	.146	Purple
MG-0144 MG-0327	.631 — .655			50	14	33 (S) 45 (D)	.146	Yellow
MG-0145 MG-0328	.656 — .679			50	15	35 (S) 47 (D)	.146	Brown
MG-0146 MG-0329	.680 — .703			50	15	35 (S) 47 (D)	.146	Blue
MG-0147 MG-0330	.704 — .740			50	16	37 (S) 49 (D)	.146	Green

* Right Hand Lay Standard.

Price on Application

PREFORMED Drop-Wire Dead-Ends

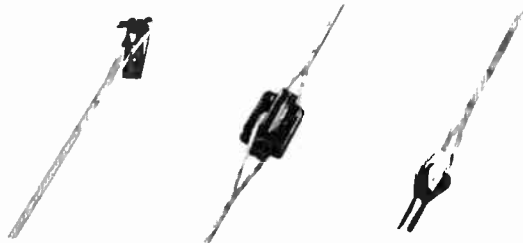


Drop-Wire dead ends are made of stainless steel with a neoprene coating which cushions and effectively protects the conductor insulation. They provide a low radial pressure over the entire holding area which prevents slippage and eliminates a cause of resagging. Drop-Wire dead ends can be used with reinforced or non-reinforced drop wire. The multiple-wire loop gives extra strength and prevents fatigue failure. These Drop-Wire dead-ends can be removed and reused.

Stainless Steel—Neoprene Coated

Catalog No.	Overall Length
NDE-9500	13"
NDE-9501	14"

**For Messenger or Guy Strand
GUY-GRIP dead ends**



GUY-GRIP dead-ends installed at the top, breaker, or anchor provide a modern method for securing guy strands. Neat in appearance, free from bolts or high-stress holding devices. Applied in seconds without the use of tools.

The assembly is complete and permanent, assures positive grip under the most extreme conditions. GUY-GRIP dead-ends are made of the same material as the strand to which they are applied and hold the full-rated breaking strength of the strand.

Galvanized Steel

Catalog No.	Nominal Strand Size & Construction	Units Per Carton
GDE-1102	3/8" 7-wire	100
GDE-1104	1/4" 3- or 7-wire	50
GDE-1106	5/16" 3- or 7-wire	50
GDE-1107	3/8" 3- or 7-wire	50
GDE-1108	7/8" 7-wire	25
BG-2115	1/2" 7- or 19-wire	25

* For Figure 8 cable messenger.

GUY-GRIP dead-ends for other materials also available.

PREFORMED Dead-Ends

PREFORMED Dead-Ends offer a fast, tool-free, inexpensive way to dead-end line wire. They eliminate concentrated stress points which cause premature line failure. Available in materials compatible with the line wire.

For Galvanized Steel Wire

Catalog No.	Wire Gauge	Material	Diameter Range	Color Code
GDE-2501	12BWG	G.S.	.109"	Black
GDE-2503	10BWG	G.S.	.134"	Orange

For Copper—Covered Steel Wire

Catalog No.	Wire Gauge	Material	Diameter Range	Color Code
CWDE-5507	12AWG	C.C.S.	.080"-.081"	Green
CWDE-5509	10AWG	C.C.S.	.102-.104"	Blue

For Alumoweld Wire

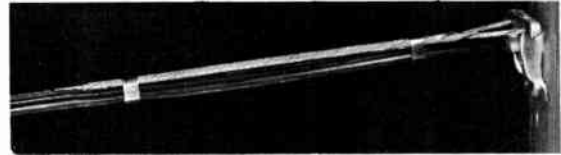
Catalog No.	Wire Gauge	Material	Diameter Range	Color Code
AWDE-4511	11AWG	AW	.091"-.095"	Green

Price on Application

PREFORMED Dead-Ends and Splices

For Rural Distribution Wire

(FIGURE 8 OR REGULAR)



PREFORMED Dead-Ends permit economical dead-ending of stripped messenger without cutting the messenger wire. They eliminate concentrated stress points which can cause premature fatigue failure. Quickly and easily applied by hand, they hold the full rated breaking strength of the messenger.

Catalog Number	Wire Gauge	Diam.	Length (Inches)	Color Code
GDE-2501	12BWG	.109"	12	Black
GDE-2502	11BWG	.120"	13	Green
GDE-2503	10BWG	.134"	14	Orange
GDE-2504	9BWG	.148"	14	Blue

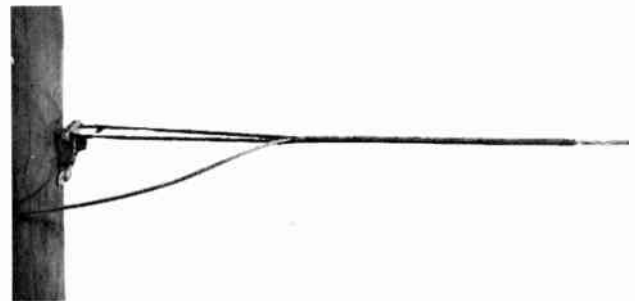
PREFORMED Splices offer a fast, economical way to join sections of messenger of B-Rural wire. They are applied by hand and will hold the full RBS of the messenger.

Catalog Number	Wire Gauge	Diam.	Length (Inches)	Color Code
GLS-3101	12BWG	.109"	12	Black
GLS-3102	11BWG	.120"	14	Green
GLS-3103	10BWG	.134"	14	Orange
GLS-3104	9BWG	.148"	17	Blue

When ordering, show complete catalog number (e.g., GLS109) and specify wire size.

**PREFORMED Dead-Ends
For False Dead-Ending**

There is no need to cut messenger... no strand to thread... no bolts to tighten or clamps to slip... no jaws to seat, and no concentration of stresses. Neat in appearance, they are easily applied without tools and are designed to hold the full RBS of extra high strength strand.



Galvanized Steel

Catalog Number	Strand 7-Wire	Mean Dia.	Units Per Carton	Length (Inches)	Color Code
GFDE-2121	1/4"	.250"	25	36	Yellow
GFDE-2123	5/16"	.327"	25	39	Black
GFDE-2124	3/8"	.360"	25	42	Orange
GFDE-2125	7/8"	.435"	25	48	Green

Alumoweld

Catalog Number	Diameter Range Min.—Max.	Nom. Size	Quantity Per Carton	Length (Inches)	Color Code
AWFDE-4144	.237"-.247"	6M	25	31	Yellow
AWFDE-4146	.303"-.313"	10M	25	33	Black
AWFDE-4149	.380"-.394"	16M	25	38	Orange

Available in other materials also.

**PREFORMED
Wraplock Tie: C-Neck Design
Aluminum**



NEMA Class 55-2 and 55-3 — REVISED HEAD STYLE FOR WRAPLOCK

Catalog Number	Diameter Range Min.—Max.	ACSR	Will Accommodate Kaiser AAAC & Reynolds 5005	All-Alum.	Insulator Identification Mark	Color Code
WTC-0100	.248—.259	(6x1) #4 (7x1)	#4		Black	Orange
WTC-0101	.260—.269			#3	Black	Green
WTC-0102	.270—.280		#3		Black	Yellow
WTC-0103	.281—.291				Black	White
WTC-0104	.292—.303		#2	#2	Black	Purple
WTC-0105	.304—.314				Black	Brown
WTC-0106	.315—.327	(6x1) #2 (7x1)			Black	Red
WTC-0107	.328—.340			#1	Black	Blue
WTC-0108	.341—.353		#1		Black	Orange
WTC-0109	.354—.367	#1			Black	Green
WTC-0110	.368—.381			1/0	Black	Black
WTC-0111	.382—.394				Black	White
WTC-0112	.395—.411	1/0	1/0		Black	Yellow
WTC-0113	.412—.437			2/0	Black	Brown
WTC-0114	.438—.463	2/0	2/0		Black	Blue
WTC-0115	.464—.492			3/0	Black	Green
WTC-0116	.493—.522	3/0	3/0		Black	Orange
WTC-0117	.523—.554			4/0	Black	Black
WTC-0118	.555—.594	4/0	4/0	266,800 CM	Black	Red
WTC-0119	.595—.630	266,800 CM (18x1)		300,000 CM	Black	Purple
WTC-0120	.631—.664	266,800 CM (6x7 - 26x7)	266,800 CM (19-Wire)		Black	Yellow
WTC-0121	.665—.705	336,400 CM (18x1)		336,400 CM 350,000 CM	Black	Brown
WTC-0122	.706—.747	336,400 CM (26x7 - 30x7) 397,500 CM (18x1)	336,400 CM (19-Wire)	397,500 CM	Black	Green

**Wraplock Tie: F-Neck Design
Aluminum**

NEMA Class 55-4 and 55-5 — REVISED HEAD STYLE FOR WRAPLOCK

Catalog Number	Diameter Range Min. — Max.	ACSR	Will Accommodate Kaiser AAAC & Reynolds 5005	All-Alum.	Insulator Identification Mark	Color Code
WTF-0200	.248—.259	(6x1) #4 (7x1)	#4		Yellow	Orange
WTF-0201	.260—.269			#3	Yellow	Green
WTF-0202	.270—.280		#3		Yellow	Yellow
WTF-0203	.281—.291				Yellow	White
WTF-0204	.292—.303		#2	#2	Yellow	Purple
WTF-0205	.304—.314				Yellow	Brown
WTF-0206	.315—.327	(6x1) #2 (7x1)			Yellow	Red
WTF-0207	.328—.340			#1	Yellow	Blue
WTF-0208	.341—.353		#1		Yellow	Orange
WTF-0209	.354—.367	#1			Yellow	Green
WTF-0210	.368—.381			1/0	Yellow	Black
WTF-0211	.382—.394				Yellow	White
WTF-0212	.395—.411	1/0	1/0		Yellow	Yellow
WTF-0213	.412—.437			2/0	Yellow	Brown
WTF-0214	.438—.463	2/0	2/0		Yellow	Blue
WTF-0215	.464—.492			3/0	Yellow	Green
WTF-0216	.493—.522	3/0	3/0		Yellow	Orange
WTF-0217	.523—.554			4/0	Yellow	Black
WTF-0218	.555—.594	4/0	4/0	266,800 CM	Yellow	Red
WTF-0219	.595—.630	266,800 CM (18x1)		300,000 CM	Yellow	Purple
WTF-0220	.631—.664	266,800 CM (6x7 - 26x7)	266,800 CM (19-Wire)		Yellow	Yellow
WTF-0221	.665—.705	336,400 CM (18x1)		336,400 CM 350,000 CM	Yellow	Brown
WTF-0222	.706—.747	336,400 CM (26x7 - 30x7) 397,500 CM (18x1)	336,400 CM (19-Wire)	397,500 CM	Yellow	Green

Price on Application

PREFORMED

Dead-End: Coated

For use on: Neoprene and Polyethylene Conductors



Catalog Number	Diameter Range Min. - Max.	Units Per Carton	Length (Inches)	Color Code
ND-0500	.243-.253	100	17	Green
ND-0501	.254-.264	100	17	Red
ND-0502	.265-.272	100	18	Blue
ND-0503	.273-.284	100	18	Orange
ND-0100	.285-.297	100	19	Black
ND-0101	.298-.310	100	19	Yellow
ND-0102	.311-.323	100	20	Blue
ND-0103	.324-.338	100	20	Orange
ND-0104	.339-.354	100	21	Black
ND-0105	.355-.374	100	22	Yellow
ND-0106	.375-.397	100	23	Red
ND-0107	.398-.420	100	24	Green
ND-0108	.421-.445	50	27	Black
ND-0109	.446-.475	50	28	Orange
ND-0110	.476-.507	50	30	Blue
ND-0111	.508-.536	50	30	Red
ND-0112	.537-.571	50	31	Black
ND-0113	.572-.608	50	33	Yellow
ND-0114	.609-.648	25	33	Red
ND-0115	.649-.690	25	34	Green
ND-0116	.691-.735	25	35	Black

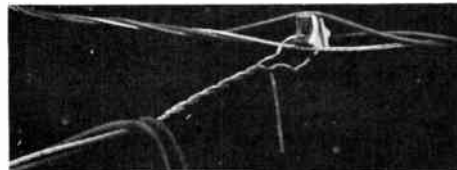
Dead-End: Bare

For use on: ACSR • All-Aluminum • Aluminum Alloy • Compacted ACSR

Catalog Number	Conductor Size AWG - MCM	Units Per Carton	Length (Inches)	Color Code
DE-0512	#4 (7W) AA	200	20	Brown
DE-0514	#4 (6/1) ACSR (7/1)	200	21	Orange
DE-0518	#2 (7W) AA	200	22	Purple
DE-0520	#2 (6/1) ACSR (7/1)	200	23	Red
DE-0521	#1 (7W) AA (19W)	200	23	Blue
DE-0523	#1 (6/1) ACSR	100	25	Green
DE-0524	1/0 (7W) AA	100	25	Black
DE-0525	1/0 (6/1) ACSR (7W)	100	27	Yellow
DE-0527	2/0 (7W) AA (19W)	75	29	Brown
DE-0529	2/0 (6/1) ACSR (7W)	75	30	Blue
DE-0530	3/0 (7W) AA (19W)	50	33	Green
DE-0148	3/0 (6/1) ACSR	50	34	Orange
DE-0150	4/0 (7W) AA (19W)	50	36	Purple
DE-0151	4/0 (6/1) ACSR	50	37	Red

Service-Grip dead-end

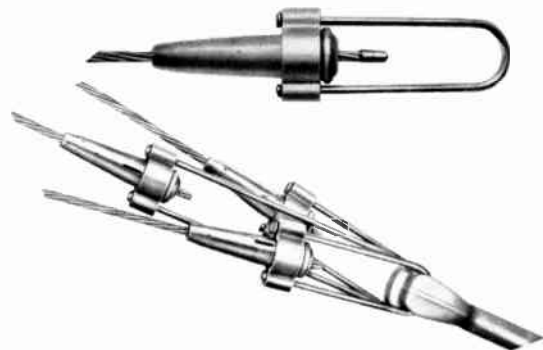
For Bare Neutral Service Drop



Catalog Number	5005 AAAC (6201)			Comprosto		Units Per Carton	Length (Inches)	Color Code
	ACSR	All Alum.	AAAC (6201)	ACSR	A.A.			
SG-4500	#6	#6	#6	#6	#6	300	10	Blue
SG-4501	#5	—	#5	—	#4	300	12	White
SG-4502	#4	#4	#4	#4	—	300	13	Orange
SG-4503	#3	#3	#3	#3	#2	200	14	Black
SG-4504	#2	#2	#2	#2	#1	200	15	Red
SG-4506	#1	#1	#1	#1	1/0	200	17	Green
SG-4508	1/0	1/0	1/0	1/0	2/0	100	19	Yellow
SG-4507	2/0	2/0	2/0	2/0	3/0	100	21	Blue
SG-4509	3/0	3/0	3/0	3/0	4/0	100	23	Orange
SG-4509	4/0	4/0	4/0	4/0	—	100	26	Red

Price on Application

RELIABLE STRANDWISE FEED-THRU DEADENDS



Universal Strandwise is for those 7-wire and 3-wire strands and solid wires identified by name brands, or coatings, or types of steel, and within diameter ranges listed.

Alumoweld — Galvanized — Bethalume —
Aluminized — Corrosion Resistant (CR) —
Stainless Steel

Yoke and Cartridge—Heat treated aluminum alloy.

Jaws—Case hardened, plated steel alloy.

Solid Bails—Stainless steel, Type 304.

All-Purpose Flexible Bails—Class C coated extra high strength, short-lay steel strand. The lobes are stainless steel compressed on the bail ends.

Cat. No.	Wire Range	Price Per 100	
		1-49	50+
Solid Stainless Steel Bails			
5199T	.140-.215, 3/8", 3 #12	\$ 90.60	\$ 77.00
5249*	3 #11	100.00	85.00
5200T	.215-.270, 1/4", 7 #12	122.35	104.00
5250*	3 #10, 3 #9	129.40	110.00
5201T	.270-.315, 5/16", 7 #11	151.75	129.00
5251*	7 #10, 3 #8, 3 #7	164.70	140.00
1-24 25+			
5202	.325-.392, 3/8", 3 #6, 3 #5 120	188.25	160.00
5252*	7 #9, 7 #8	202.35	172.00
5203	.392-.445, 7/16", 7 #7	270.60	230.00
5253*	.392-.455, 1/2", 7 #7	288.25	245.00
5204	.455-.520, 1/2", 7 #6	376.45	320.00
5254*	.455-.520, 1/2", 7 #6	388.25	330.00
*Long ball insulator types 502, 504. T R E A (Telephone) Approved.			
1-49 50+			
5199-L°	.140-.215, 3/8", 3 #12, 3 #11	105.90	90.00
5200-L°	.215-.270, 1/4", 7 #12, 3 #10, 3 #9	141.20	120.00
5250-6°	3 #10, 3 #9	135.30	115.00
5201-L°	.270-.315, 5/16", 7 #11, 7 #10, 3 #8, 3 #7	176.45	150.00
5251-6°	7 #10, 3 #8, 3 #7	170.60	145.00
1-24 25+			
5202-L°	.325-.392, 3/8", 3 #6, 3 #5	214.10	182.00
5252-6°	7 #9, 7 #8	208.25	177.00
5203-L°	.392-.445, 7/16", 7 #7	305.90	260.00
5253-6°	.392-.455, 1/2", 7 #7	300.00	255.00
5204-L°	.455-.520, 1/2", 7 #6	417.65	355.00
5254-6°	.455-.520, 1/2", 7 #6	394.10	335.00
*6 ball insulator type 506. °Extra long bail.			
All Purpose Flexible Bails			
5255†	.140-.215, 3/8", 3 #12, 3 #11	163.80	139.25
5261*	3 #11	179.80	152.85
5267†		193.35	164.35
5256†	.215-.270, 1/4", 7 #12, 3 #10, 3 #9	171.35	146.65
5262*	3 #10, 3 #9	187.70	159.55
5268†		201.20	171.00
5257†	.270-.315, 5/16", 7 #11, 7 #10, 3 #8, 3 #7	206.45	175.50
5263*	7 #10, 3 #8, 3 #7	230.45	195.90
5269†		252.45	214.60
5258†	.325-.392, 3/8", 3 #6, 3 #5, 7 #9, 7 #8	294.10	250.00
5264*	3 #5, 7 #9, 7 #8	317.65	270.00
5270†		341.20	290.00
†8" *12" †24"			



All-Grades Strandwise is for the grades, name brands and coatings listed below including 7-wire and solid but not including 3-wire strand and not including Alumoweld (see Universal Strandwise).

All grades including Extra High Strength.
Bethalume — Stainless Steel — Aluminized —
Corrosion Resistant (CR) — Galvanized
Solid Stainless Steel Bails

Cat. No.	Long Bail Insulator Types	Strand Size Inches	Wt. Lbs. Per 100	Price Per 100	
				1-49	50+
5099T	502, 504	3/8	24	\$ 78.80	\$ 67.00
5149T		3/8	30	88.20	75.00
5100T		1/4	45	114.00	97.00
5150		1/4	58	129.40	110.00
5101T		5/16	74	134.00	114.00
5151T		5/16	100	147.00	125.00
5102T		3/8	106	165.00	140.00
5152T		3/8	116	179.00	152.00
Extra Long Bail Insulator Type 506					
5100-L		1/4	65	132.50	112.50
5101-L		5/16	115	152.50	129.50
5151-6		5/16	100	147.00	125.00
5102-L		3/8	142	194.25	165.00
5152-6		3/8	131	179.00	152.00

All-Purpose Flexible Bails

Cat. No.	Strand Size Inches	Wt. Lbs. Per 100	Price Per 100	
			1-24	25+
5170	8" 18" 24" 1/4	52	\$159.00	\$135.00
5174	1/4	66	176.45	150.00
5171	5/16	87	188.25	160.00
5175	5/16	104	205.90	175.00
5179	5/16	128	229.00	195.00
5172	3/8	127	220.00	187.00
5176	3/8	168	249.40	212.00
5180	3/8	188	282.00	240.00

Utilities Grade Strandwise is for specification (Utilities, Western Union, AT&T) common or SM grades of 7-wire galvanized or Bethalume strand in the standard fractional sizes listed. This is the most economical Strandwise series for the grades and coatings listed.

Solid Stainless Steel Bails

Cat. No.	Strand Size Inches	Wt. Lbs. Per 100	Price Per 100	
			1-49	50+
5121†	5/16	60	\$121.20	\$103.00
5131*	5/16	65	135.30	115.00
5122*	3/8	73	147.05	125.00
5132*	3/8	83	164.70	140.00
1-24 25+				
5103T	7/16	128	\$195.30	\$166.00
5153T*	7/16	150	220.00	187.00
†Short bail. *Long bail insulator types 502, 504.				
1-49 50+				
5121-L°	5/16	93	140.00	119.00
5131-6°	5/16	81	135.30	115.00
5122-L°	3/8	90	179.00	152.00
5132-6°	3/8	83	165.00	140.00
1-24 25				
5103-L°	7/16	165	224.75	191.00
5153-6°	7/16	150	220.00	187.00
°Extra long bail. *6 ball insulator type 506. T R E A (Telephone) Approved.				

All-Purpose Flexible Bails

Cat. No.	Strand Size Inches	Wt. Lbs. Per 100	Price Per 100	
			1-49	50+
5141	8" 18" 24" 5/16	72	\$172.95	\$147.00
5191	5/16	75	185.90	158.00
5193	5/16	78	196.45	167.00
5142	3/8	92	200.00	170.00
5192	3/8	95	211.75	180.00
5194	3/8	98	247.05	210.00
1-24 25+				
5173	7/16	148	\$271.00	\$230.00
5177	7/16	184	294.00	250.00
5181	7/16	204	329.00	280.00

RELIABLE

STRANDLINK SPLICES



Universal Strandlink for the same type of strand and coatings as listed for Universal Strandwise.

Cat. No.	Wire Range	Each End	1-49	50+
5039	.140-.215, 7/8", 3#12		\$100.00	\$ 85.00
5039NT	3#11		184.70	157.00
5040T	.215-.270, 1/4", 7#12,			
	3#10, 3#9		121.20	103.00
5041T	.270-.315, 5/8", 7#11,			
	7#10, 3#8, 3#7		158.80	135.00
5042	.325-.392, 3/4", 3#6,			
	3#5, 7#9, 14M, 7#8		211.80	180.00
5043	.392-.455, 7/8", 7#7		229.40	195.00
5044	.455-.520, 1/2", 7#6		335.30	285.00

Reducer Type Universal Strandlink

End	Wire Range	No. 5086	1-24	25+
A	1/4", .215-.270, 7#12,		\$123.55	\$105.00
	3#10, 3#9			
B	7/8", .140-.215, 3#12, 3#11		123.55	105.00
A	5/8", .270-.315, 7#11, 7#10,	No. 5087		
	3#8, 3#7		149.40	127.00
B	1/4", .215-.270, 7#12,			
	3#10, 3#9		149.40	127.00

All-Grades Strandlink is for the grades, name brands and coatings listed below including 7-wire and solid but not including 3-wire strand and not including Alumoweld (see Universal Strandlink).

Galvanized — Bethalume — Aluminized — Corrosion Resistant (CR) — Stainless Steel

Cat. No.	Size In.	Wt. Lbs. Per 100	1-49	50+
4999T	3/8	17	\$ 77.60	\$66.00
5000	1/4	33	105.00	89.00
5000NT	1/4	38	169.40	144.00
5001T	5/8	62	117.60	100.00
5002T	3/4	88	152.90	130.00
5043	7/8	160	229.40	195.00
5004	1/2	144	264.70	225.00

All Grades Reducer Type Strandlink

Cat. No.	End A	End B	Wt. Lbs. Per 100	1-49	50+
5021	7/8	1/4	52	\$135.00	\$115.00
5022	3/4	5/8	82	155.00	133.00
5023	7/8	3/4	113	193.00	167.00

N Suffix — Neoprene Covered. May be used with Figure 8 Cable. TREA (Telephone) Approved.

Utilities Grade Strandlink

Cat. No.	Size In.	Wt. Lbs. Per 100	1-24	25+
5003	7/8	108	\$192.90	\$164.00

RELIABLE SQUEEZ DEAD-ENDS



Consists of a Squeeze splicing with a factory assembly loop (bail) in one end. The other end is for the line wire and only the line wire is installed by the lineman. The loop, or bail, is a specially prepared, high strength, D-shaped stainless steel wire which is factory assembled to one-half of the sleeve. Thus you have a pre-fabricated loop dead-end, ready for insulator or other dead-end fixture.

Rel. Elec. Cat. No.	Gauge AWG	Die Groove	Wt. Lbs. Per 100	Per 100
DE-12-C-1	12	C	3	\$19.83
DE-10-C-1	10	C	3 1/2	17.50
DE-10-D-1	10	D	3 3/4	18.67
DE- 8-J-1	8	J	7 3/4	28.58
DE-12-D-1	12	D	3	17.50
DE-12-D-3	12	D	5 1/4	30.28
DE-10-D-3	10	D	5 3/4	21.59
DE-10-J-1	10	J	7 3/4	29.17
DE- 9-J-1	9	J	7	29.17
DE- 8-J-3	8	J	9 1/2	28.00

Standard package is 25.

WIRELINK SPLICES AND WIREWISE DEADENDS



Reliable Wirelink Splices and Wirewise Deadends are for use in splicing and deadending steel, copper and copper-covered steel wires.

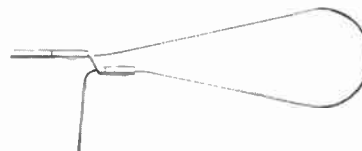
For All Multi-Pair Distribution Wire

Wirewise Cat. No.	Wire Gauge	1-99	100-499	500+
5056T	{ BWG (.083) & 12 AWG		\$50.60	\$45.25 \$43.00
5058T	{ BWG (.109) & 9, 10 AWG		52.50	47.25 45.00
5062	{ 11 BWG (Any Grade) 10 BWG (.134) except 190 Grade 2500 lbs. max.		70.60	63.50 60.00
5072T	{ 11 BWG & 10 BWG (.134) (Any grade including 190 Grade)		82.35	73.70 70.00

Wirelink Cat. No.	Wire Gauge	1-99	100-499	500+
5057	{ 12 BWG & 12 AWG	\$34.10	\$30.55	\$29.00
5057N		57.65	51.60	49.00
5059	{ 12 BWG & 9,	35.00	31.65	30.00
5059NT	{ 10 AWG	59.00	53.00	50.00
5063	{ 11 BWG (Any Grade) 10 BWG (except 190) Grade — 2500 lbs. max.	45.90	41.30	39.00
5063N	{ 10 BWG (except 190) Grade — 2500 lbs. max.	75.65	70.90	68.50
5073	{ 11 BWG & 10 BWG	52.50	47.25	45.00
5073NT	{ (Any grade including 190 Grade)	82.35	73.70	70.00

N Suffix — Neoprene Covered.

NICOPRESS LOOP-TYPE MADE UP DEAD-ENDS



COPPER-COVERED STEEL OR COPPER

Wire Size	Nat'l Tel. Nicopress No.	Tool Groove	Std. Box	Approx. Shpg. Wt. Lbs. Per 100	Per 100
12 AWG	67-080D	D	25	8	\$17.50
10 AWG	67-102D	D	25	10	21.59
12 BWG	"85" or "135" Galvanized Steel	D	25	10	25.66
12 BWG	67-109D85-135 D	D	25	12	29.79
	"190" or "195" Galvanized Steel	D	25	12	29.79
	67-109D190	D	25	12	29.79

FOR ALUMOWELD WIRE

Size AWG	Nat'l Tel. Nicopress No.	Price Per 100	Size AWG	Nat'l Elec. Nicopress No.	Per 100
11	68-091D	\$18.30	10	68-102J	\$33.00

"B", "C", "D" and "J" in catalog number indicates die groove.

RELIABLE

TENSION SPLICES

Tension Splices transmit current from line conductor to line conductor via the chucks and tubes that comprise Reliable's mechanical compression splices. The electrical connections, with minimum required tension, will show a resistance through the length of the splice less than an equal length of the conductor.

Pressures, set up by tension, wedge the tapered chucks in the controlled tapers of the tube and make a permanent electrical connection. Only momentary tension is necessary.

Splices are made for ACSR, All-Aluminum (AAC), Aluminum Alloy (AAAC), Copper, Type A Copperweld, and Amerductor line conductors.

"55" SERIES TENSION SPLICES



For Solid and Stranded Conductors — All-Aluminum, Aluminum Alloy (AAAC) and Copper

These Splices are designed to prevent improper installation of stranded conductor. These splices test to values that always exceed 90% of the book rated strength of any of the conductors for which they are listed.

These are mechanical-compression splices and require minimum tension to set the tapered chucks into the conductor and in the tapered tube ends. Tension representing a minimum of 15% of the rated strength of the conductor is required to assure a permanent low resistance electrical connection. This can be an induced momentary tension if sag tensions are light.

The "55" Series has no release slots. All working parts and surfaces are protected with an inhibitor lubrication. Splices are enclosed in individually sealed plastic containers.

For Stranded All-Aluminum and Aluminum Alloy Conductors

Cat. No.	Wire Size — AWG —		Per 100
	7 Strand	AAAC* 7 Strand	
AL5547	4	5	\$102.35
AL5527	2	3	142.35
AL55101	1	2	152.05
AL55107	1/0	1	158.25
AL55207	2/0	1/0	175.90
AL55307	3/0	2/0	208.70
AL55407	4/0	3/0	209.00
AL55266.8	266.8MCM	4/0	252.35

*All-Aluminum Alloy Conductors — Alloy 6201 or Alloy 5005.

For Stranded Copper Conductors (except Copperweld)

Cat. No.	Solid	7 or 19 Strand		Per 100
		12 Strand	3 Strand	
5547	3	4		\$125.40
5527	1	2	3 #8	172.35
55101	1/0	1	2	200.00
55107	2/0	1/0	3 #6	221.40
55207	3/0	2/0	1/0	283.90
55307	4/0	3/0		304.30
55407		4/0		398.65
55250		250MCM(19)	40	417.55

For Copperweld Conductors

Cat. No.	Copperweld		Per 100
	Type A	3 Strand	
558A	8A	3 #12	\$194.35
556A	6A	3 #10	254.10
554A	4A	3 # 8	298.35

For Amerductor Conductors

Cat. No.	Wire Size Amerductor	Per 100
558AM	No. 8 Amerductor	\$194.35
556AM	No. 6 Amerductor	254.10
554AM	No. 4 Amerductor	298.35

7650 SERIES TENSION SPLICES FOR ACSR AND AAAC



The patented 7650 Series Tension Splices are designed for standard ACSR, ACSR "Comprosto", EC Grade All American (AAC), All Aluminum Comprosto conductors and All Aluminum Alloy (AAAC). A patented strand guide is assembled to all of the 7650 Series Splices to guide the conductor into the pilot cup. Chuck and tube are aluminum alloy. Strand guide is plastic.

Cat. No.	Wire Size				Per 100
	ACSR	ACSR Comprosto	All Alum. and AAAC	All Alum. Comprosto	
7651	4-6/1 or 7/1	4-6/1 4-7/1	4-7 Str.		\$167.70
7652	2-6/1 or 7/1	2-6/1	2-7 Str. 1-7 Str.	2-7 Str. 1-7 Str.	223.55
7653	1/0-6/1	1/0-6/1 2/0-6/1	1/0-7 Str.	1/0-7 Str. 1/0-19 Str. 2/0-7 Str. 2/0-19 Str.	294.50
7654	2/0-6/1	2/0-6/1 3/0-6/1	2/0-7 Str.	3/0-7 Str. 4/0-19 Str.	372.20
7655	3/0-6/1	3/0-6/1 4/0-6/1	3/0-7 Str.	4/0-7 Str. 3/0-19 Str.	450.00
7656	4/0-6/1	4/0-6/1 266.8-18/1	4/0-7 Str.	266.8-7 Str. 266.8-19 Str.	527.80
7657	266.8-18/1, 6/7	336.4-18/1	266.8-7 Str. 266.8-19 Str.	336.4-19 Str.	577.80
7658	336.4-18/1		336.4-17 Str. 336.4-19 Str. 397.5-17 Str. 397.5-19 Str.		627.80

STANDARD SERIES TENSION SPLICES



For Solid All-Aluminum and Stranded Aluminum Alloy Conductors

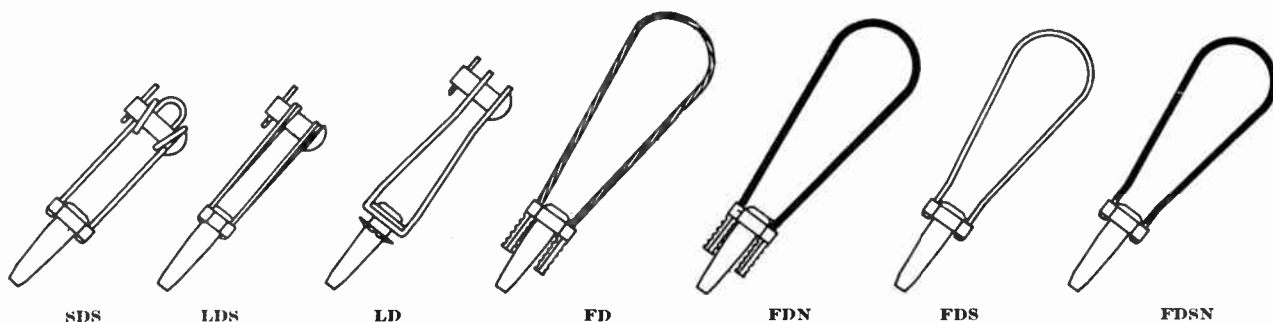
Cat. No.	Wire Size (AWG)		Per 100
	Solid	AAAC* 7 Strand	
AL61	6		\$48.45
AL41	4	6	61.65
AL21	2 or 3		72.60

*All-Aluminum Alloy Conductors — Alloy 6201 or Alloy 5005.

For Copper Conductors

Cat. No.	Wire Size (AWG)		Per 100
	Solid	7 or 19 Strand	
81	8		\$ 67.60
61	6	8	67.60
41	4	6	86.10
47	3	4	97.05
21	2 or 3	3	101.40
27	1	2	122.10
101	1/0	1	144.95
107	2/0	1/0	160.25
207	3/0	2/0	183.05
307	4/0	3/0	229.00
407		4/0	271.65
250		250MCM(19) (4/0-12 Str.)	300.65

RELIABLE FEED-THRU DEADENDS



**For Copper Conductors
(Not including Copperweld)**

Cat. No.	Wire Size			Per 100
	Solid	7 or 19 Strand	3 Strand	
81 SDS	8			\$109.80
81 LDS				101.70
81 LD				118.95
81 FD				93.35
81 FDN				109.40
81 FDS				80.55
81 FDSN				88.95
81 FFD				109.30
61 SDS	6	8		109.80
61 LDS				118.80
61 LD				118.80
61 FD				99.30
61 FDN				108.70
61 FDS				80.40
61 FDSN				88.90
61 FFD				109.30
41 SDS	4	6	6	124.20
41 LDS				130.50
41 LD				135.30
41 FD				127.45
41 FDN				136.25
41 FDS				97.40
41 FDSN				115.55
41 FFD				127.45
47 SDS	3	4		155.40
47 LDS				149.30
47 LD				155.40
47 FD				146.45
47 FDN				156.25
47 FDS				127.45
47 FDSN				148.00
21 SDS	2 or 3	3		155.40
21 LDS				149.30
21 LD				165.90
21 FD				162.70
21 FDN				173.55
21 FDS				127.45
21 FDSN				148.00
21 FFD				162.75
27 SDS	1	2	3	177.70
27 LDS				198.20
27 LD				198.20
27 FD				170.35
27 FDN				181.05
27 FDS				158.80
27 FDSN				179.25
101 SDS	1/0	1	2	206.45
101 LDS				223.40
101 LD				223.40
101 FD				205.30
101 FDN				216.05
101 FDS				178.05
101 FDSN				198.20
107 SDS	2/0	1/0	1	211.65
107 LDS				233.90
107 LD				233.90
107 FD				218.10
107 FDN				229.40
107 FDS				187.60
107 FDSN				208.00

**For Copper Conductors
(Not including Copperweld)**

Cat. No.	Wire Size			Per 100
	Solid	7 or 19 Strand	3 Strand	
207 SDS	3/0	2/0	1/0	\$280.80
207 LDS				270.70
207 LD*				270.70
207 FD				305.90
207 FDN				318.10
207 FDS				255.40
207 FDSN				274.35
307 SDS	4/0	3/0		297.40
307 LDS				316.25
307 LD*				351.35
307 FD				372.55
307 FDN				385.65
307 FDS				276.05
307 FDSN				296.25
407 SDS		4/0		400.35
407 LDS				379.45
407 LD*				351.35
407 FD				482.35
407 FDN				496.35
407 FDS				372.55
407 FDSN				393.20
250 SDS		250MCM (19)		413.05
250 LDS		(4/0-12 Str.)		392.20
250 LD*				365.10
250 FD				512.95
250 FDN				526.80
250 FDS				387.60
250 FDSN				407.80

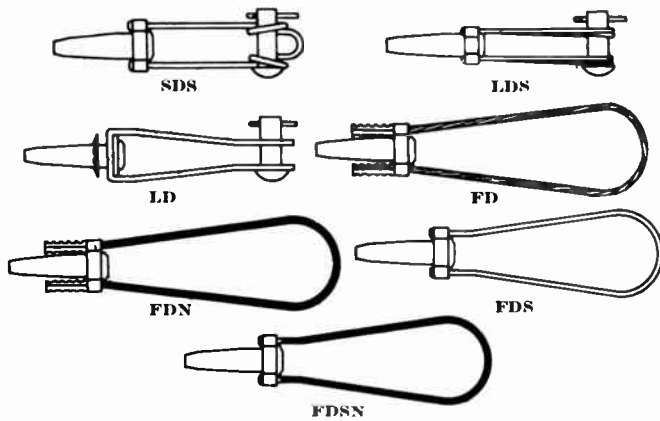
*Can be supplied with extra long 13" clevis. Use Code No. LLD and add \$35.00 per 100 to quantity price.

For Copperweld Conductors

Cat. No.	Copperweld		Per 100
	Type A	3 Strand	
8A SDS	8A	3 No. 12	\$201.30
8A LD	8A	3 No. 12	202.60
8A FD	8A	3 No. 12	215.70
6A SDS	6A	3 No. 10	222.25
6A LD	6A	3 No. 10	247.05
6A FD	6A	3 No. 10	260.10
4A SDS	4A	3 No. 8	258.75
4A LD	4A	3 No. 8	274.55
4A FD	4A	3 No. 8	287.60
8AM SDS		8 Amerductor	\$201.30
8AM LD		8 Amerductor	202.60
8AM FD		8 Amerductor	215.70
6AM SDS		6 Amerductor	222.25
6AM LD		6 Amerductor	247.05
6AM FD		6 Amerductor	260.10
4AM SDS		4 Amerductor	258.75
4AM LD		4 Amerductor	274.55
4AM FD		4 Amerductor	287.60

RELIABLE FEED-THRU DEADENDS

For ACSR and AAAC



The Series No. 7651 through No. 7658 Deadends are mechanical-compression type deadends. Both the chuck and tube have long shallow tapers. The conductor is held by the embossed teeth on the chuck. As tension is applied, the tapers produce great compressive forces on the aluminum strands, which in turn compress on and securely hold the core wire. There is no need to bare or otherwise separately prepare the core wire. A strand guide, which greatly eases conductor insertion, is factory installed at the end of the tube. A metal pilot cup in the base of the strand guide caps the conductor end as the conductor is inserted. If the strand guide admits the conductor, it will always enter the pilot cup. The continuing thrust sends the capped conductor on through the chuck and tube into the clevis or bail area. Any desired length of conductor can be fed through to serve as a jumper.

Cat. No.	Wire Size				Per 100
	ACSR	ACSR Compresto and AAAC	All. Alum. and AAAC	All Alum. Compresto	
7651SDS	4-6/1	4-6/1	4-7 Str.		\$177.80
7651LDS	4-7/1	4-7/1			261.10
7651LD					234.70
7651FD					240.30
7651FDN					272.20
7651FDS					173.25
7651FDSN					233.30
7652SDS	2-6/1	2-6/1	2-7 Str.	2-7 Str.	227.80
7652LDS	2-7/1		1-7 Str.		277.80
7652LD					251.50
7652FD					296.15
7652FDN					327.80
7652FDS					229.15
7652FDSN					288.90
7653SDS	1/0-6/1	1/0-6/1	1/0-7 Str.	1/0-7 Str.	316.65
7653LDS		2/0-6/1		1/0-19 Str.	411.10
7653LD				2/0-7 Str.	372.25
7653FD				2/0-19 Str.	427.80
7653FDN					461.00
7653FDS					366.70
7653FDSN					427.80
7654SDS	2/0-6/1	2/0-6/1	2/0-7 Str.	3/0-7 Str.	344.45
7654LDS		3/0-6/1		3/0-19 Str.	444.45
7654FD					455.55
7654FDN					488.90
7654FDS					383.35
7654FDSN					444.45
7655SDS					405.55
7655LDS	3/0-6/1	3/0-6/1	3/0-7 Str.	4/0-7 Str.	477.80
7655FD		4/0-6/1		4/0-19 Str.	POA*
7655FDN					POA*
7655FDS					405.55
7655FDSN					466.65
7656SDS					444.45
7656LDS	4/0-6/1	4/0-6/1	4/0-7 Str.	266.8-7 Str.	500.00
7656FD		266.8-18/1			POA*
7656FDN					POA*
7656FDS					427.80
7656FDSN					488.90
7657SDS	266.8-18/1	336.4-18/1	266.8-7 Str.	336.4-19 Str.	527.80
7657LDS	266.8-6/7		266.8-19 Str.		561.10
7657FD					POA*
7657FDN					POA*
7657FDS					511.10
7657FDSN					572.20
7658SDS	336.4-18/1		336.4-17 Str.	336.4-7 Str.	627.80
7658LDS			336.4-19 Str.	336.4-19 Str.	627.80
7658FD			397.5-17 Str.		POA*
7658FDN			397.5-19 Str.		POA*
7658FDS					
7658FDSN					

*Only available with galvanized steel strand bail -- on special order.

For All-Aluminum and Aluminum Alloy Conductors

Reliable deadends are made for ACSR, AAC, AAAC, "Compresto", Copper, Copperweld and some composite conductors. Component materials are wholly compatible with the types of conductors. There is an assortment of clevis and bail types and designs to suit the various requirements for attachment and suspension.

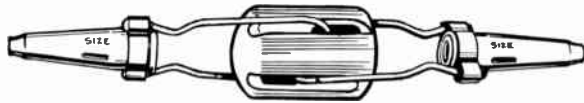
Cat. No.	Wire Size			Per 100
	Solid	AAC 7 Strand	AAAC† 7 Strand	
AL61 SDS	6			\$107.10
AL61 LD				91.90
AL61 FD				120.75
AL61 FDN				125.45
AL61 FDS				76.20
AL61 FDSN				84.25
AL41 SDS	4		6	107.10
AL41 LD				94.35
AL41 FD				126.60
AL41 FDN				130.75
AL41 FDS				82.35
AL41 FDSN				90.40
AL47 SDS		4	5	122.55
AL47 LDS				143.40
AL47 LD				155.75
AL47 FD				156.90
AL47 FDN				174.25
AL47 FDS				109.00
AL47 FDSN				126.40
AL21 SDS	2 or 3			133.10
AL21 LDS				143.40
AL21 LD				155.75
AL21 FD				156.90
AL21 FDN				174.25
AL21 FDS				109.00
AL21 FDSN				126.40
AL27 SDS		2	3	143.05
AL27 LDS				143.40
AL27 LD				171.65
AL27 FD				154.05
AL27 FDN				169.30
AL27 FDS				121.10
AL27 FDSN				138.60
AL101 SDS		1	2	153.90
AL101 LDS				152.20
AL101 LD				173.65
AL101 FD				160.10
AL101 FDN				177.70
AL101 FDS				128.95
AL101 FDSN				146.35
AL107 SDS		1/0	1	159.75
AL107 LDS				160.65
AL107 LD				195.05
AL107 FD				188.70
AL107 FDN				211.30
AL107 FDS				155.30
AL107 FDSN				169.30
AL207 SDS		2/0	1/0	189.20
AL207 LDS				178.05
AL207 LD*				220.95
AL207 FD				255.35
AL207 FDN				255.70
AL207 FDS				169.20
AL207 FDSN				188.90
AL307 SDS		3/0	2/0	210.45
AL307 LDS				182.30
AL307 LD*				220.40
AL307 FD				321.25
AL307 FDN				333.25
AL307 FDS				193.30
AL307 FDSN				212.90
AL407 SDS		4/0	3/0	251.40
AL407 LDS				225.25
AL407 LD*				258.80
AL407 FD				349.35
AL407 FDN				374.35
AL407 FDS				240.10
AL407 FDSN				259.70
AL266.8 SDS		266.8	4/0	291.00
AL266.8 FDS				309.60
AL266.8 FDSN				340.55

†When used to support ACSR these automatic deadends develop approximately 50% of the rated strength of the ACSR strand.

*All-Aluminum Alloy Conductors — 6201 and 5005.
 *Can be supplied with extra long 13" clevis. Use Code No. LLD and add \$35.00 per 100 to quantity price.

RELIABLE

INSULATED SPlicing ASSEMBLY



For All-Aluminum and Aluminum Alloy (AAAC) Conductors

Cat. No.	Type Insulator	Wire Size (AWG)			Per 100
		Solid	AAC 7 Strand	AAAC*† 7 Strand	
AL5725	500	6			\$155.60
AL5726	500	4		6	166.70
AL5727	500	2 or 3			200.00
AL5728	500		2	3	274.70
AL5735	502	6			204.40
AL5736	502	4		6	217.20
AL5737	502	2 or 3			255.60
AL5738	502		2	3	300.30
AL5729	504	1	1	2	351.40
AL5730	504	1/0	1/0	1	389.70
AL5731	504	2/0	2/0		453.60
AL5732	504	3/0	3/0		491.90
AL5733	504	4/0	4/0		626.10

*All-Aluminum Alloy Conductors — Alloy 6201 or Alloy 5005. When used to support ACSR these automatic deadends develop approximately 50% of the rated strength of the ACSR strand.

For Copper Conductors

Cat. No.	Type Insulator	Wire Size (AWG)			Per 100
		Solid	7 or 19 Strand	3 Strand	
5725	500	6	8		\$227.40
5726	500	4	6	6	271.10
5727	500	2 or 3	3		323.60
5728	500	1	2	3	341.10
5735	502	6	8		227.70
5736	502	4	6	6	271.30
5737	502	2 or 3	3		323.80
5738	502	1	2	3	341.30
5729	504	1/0	1	2	359.70
5730	504	2/0	1/0	1	365.60
5731	504	3/0	2/0		537.00
5732	504	4/0	3/0		674.90
5733	504		4/0		674.90

For ACSR and All-Aluminum (AAC) EC Grade Conductors (7650 Series)

Cat. No.	Type Insulator	Wire Size	Per 100
5759	502	4 ACSR 6/1 or 7/1 or 4-7 Str. AAAC	\$423.40
5761	502	2 ACSR 6/1 or 7/1 or 2-7 Str. AAAC	534.40
5762	502	1/0 ACSR 6/1 or 1/0 or 7-Str. AAAC	812.20
5763	502	2/0 ACSR 6/1 or 2/0 or 7-Str. AAAC	850.00
5764	502	3/0 ACSR 6/1 or 3/0 or 7-Str. AAAC	890.00
5765	502	4/0 ACSR 6/1 or 4/0 or 7-Str. AAAC	934.60
5766	504	266.8 ACSR 266.8 AAAC 19-Str.	1120.00
5767	504	336.4 ACSR 336.4 AAAC 19-Str.	1286.70

CONCENTRIC CABLE CLAMPS

Support and hold service type and industrial insulated cables within diameter ranges shown. The designs provides positive clamping and holding action without damage to the conductor insulation. The serrated shell and the smooth wedge grip the cable without slippage under all load conditions.

Flexible Bail



Cat. No.	Range of Clamp			Max. In.	Min. In.	Width In.	Bail Lgth. In.	Per 100
	Cable No.	Cond.						
Round Cable								
82	8	2	.440	.350	.....	9	\$ 76.80
62	6	2	.530	.400	.....	9	82.30
22	2	2	.700	.560	.....	10	115.30
Oval Cable								
83	8	3	.450	.350	.770	9	93.30	
63	6 or 8	3	.580	.450	.900	10	102.40	
63A	6 or 8*	3	.620	.500	.900	10	102.40	
43	4	3	.720	.560	1.100	10½	146.30	

*Armored.

Solid Bail



Cat. No.	Range of Clamp			Max. In.	Min. In.	Width In.	Bail Lgth. In.	Per 100
	Cable No.	Cond.						
Round Cable								
82S	8	2	.440	.350	.....	6½	53.60
62S	6	2	.530	.400	.....	6½	60.30
22S	2	2	.700	.560	.....	7½	94.45
Oval Cable								
83S	8	3	.450	.350	.770	6½	75.00	
63S	6 or 8	3	.580	.450	.900	6½	75.00	
63AS6	6 or 8*	3	.620	.500	.900	6½	75.00	
43S	4	3	.720	.560	1.100	6½	123.20	

*Armored.

Emery treated shells add \$4.00 to quantity price. Extra long 14" and 18" bail prices on request.

SPAN CLAMP



Designed for mid-span service take-offs, in either or both directions, from triplex-type cable secondaries or lashed cables where strength is in the neutral messenger.

Wedge clamps with detachable solid or flexible bails can be attached through the eyes of the span clamp. Clamps are available in aluminum or galvanized steel.

Cat. No.	Material	Per 100
5535	Galvanized Steel	\$ 72.00
AL5535	Aluminum	111.10

RELIABLE

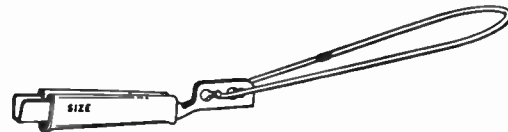
SERVICE WEDGE CLAMPS

Support and hold the bare neutral of Triplex type service drops. Each size will test to the values listed under "Typical strength column" in

the charts. These clamps are available in several sizes to handle the most widely used sizes of service conductors.

For Bare Neutral Service Drops Stainless Bail

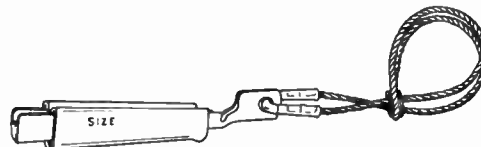
ACSR	Neutral		Copper		Range
	Aluminum Str.	Sol.	Str.	Sol.	
4-6	3-6	2-6			.260-.160
4-6	3-6	2-6			.260-.160
2-6	2-4	1-4			.326-.200
2-6	2-4	1-4			.326-.200
1/0-4	1/0-3	2			.400-.250
1/0-4	1/0-3	2			.400-.250
2/0-4/0	4/0-2/0				.570-.400
2/0-4/0	4/0-2/0				.570-.400
			3-8	2-6	.260-.160
			3-8	2-6	.260-.160
			1/0	2	.400-.250
			1/0	2	.400-.250



Cat. No.	Bail Length Centerline	Shell Material	Typical Strength of Clamp Lbs.	Per 100
7080		Aluminum	1750	\$42.25
7081		Aluminum	1750	46.70
7090		Aluminum	1750	46.70
7091		Aluminum	1750	50.00
7082		Aluminum	2500	66.70
7083		Aluminum	2500	72.25
7093		Aluminum	2500	88.90
7094		Aluminum	2500	94.45
7076*		Stainless	1750	54.45
7077*		Stainless	1750	58.90
7078		Stainless	2500	98.90
7079		Stainless	2500	104.40

Flexible Tinned Bronze Bail

ACSR	Neutral		Copper		Range
	Aluminum Str.	Sol.	Str.	Sol.	
4-6	3-6	2-6			.260-.160
2-6	2-4	1-4			.326-.200
1/0-4	1/0-3	2			.400-.250
2/0-4/0	4/0-2/0				.570-.400
			3-8	2-6	.260-.160
			1/0	2	.400-.250



Cat. No.	Bail Length	Shell Material	Typical Strength of Clamp Lbs.	Per 100
7080-F		Aluminum	1100	63.30
7090-F		Aluminum	1100	68.90
7082-F		Aluminum	2000	114.40
7093-F		Aluminum	2000	141.10
7076-F*		Stainless	1100	76.70
7078-F		Stainless	2000	143.30

Drive Hook Type, Flexible Stainless Bail and Stainless Hook Eyes

For suspending drop from two hooks staggered 6" apart to distribute possible load, or both eyes can be secured on one hook.

ACSR	Neutral		Copper		Range
	Aluminum Str.	Sol.	Str.	Sol.	
4-6	3-6	2-6			.260-.160
2-6	2-4	1-4			.326-.200
1/0-4	1/0-3	2			.400-.250
2/0-4/0	4/0-2/0				.570-.400
			3-8	2-6	.260-.160
			1/0	2	.400-.250



Cat. No.	Bail Length	Shell Material	Typical Strength of Clamp Lbs.	Per 100
7080-D		Aluminum	1500	57.80
7090-D		Aluminum	1500	66.70
7082-D		Aluminum	1500	84.50
7093-D		Aluminum	1500	116.70
7076-D*		Stainless	1500	71.10
7078-D		Stainless	1500	97.80

*Emery treated stainless shells for some smaller solid copper neutrals. Add \$4.00 to quantity price.

ALL ALUMINUM SERVICE WEDGE CLAMPS

Aluminum wedge and shell. Solid, stainless steel bail. Nylon jacketed galvanized steel aircraft strand flexible bail.

Cat. No.	ACSR	Aluminum		Range	Typical Strength of Clamp Lbs.	Per 100
		Str.	Sol.			
7195				.230	1500	\$37.10
7195-I	2-4	1-4	1/0-3	to .330		40.45
7187				.330		
7187-I	1/0	1/0-1		to .398		
7197.				.447		
7197-I	2/0-4/0	3/0		to .563		

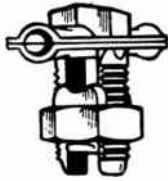
Flexible Bail
(Nylon jacketed, galvanized steel aircraft strand)

Cat. No.	ACSR	Aluminum		Range	Typical Strength of Clamp Lbs.	Per 100
		Str.	Sol.			
7195-F				.230	1500	63.05
7195-FI	2-4	1-4	1/0-3	to .330		66.40
7187-F				.330		
7187-FI	1/0	1/0-1		to .398		
7197-F				.447		
7197-FI	2/0-4/0	3/0		to .563		

"I" suffix denotes iridited finish on wedge and shell.

RELIABLE

ALUMINUM CONNECTORS—TWO ARMOR PLATES



For aluminum to aluminum connections, with extra conductor protection.

Cat. No.	AWG		Alum. ACSR		Steel		Per 100
	Sol.	Str.	Sol.	Str.	BWG. or Inches	BWG. Str.	
6ALWW	4	5	6	6		8	\$31.80
4ALWW	2	4	4	4	1/4	6	36.80
2ALWW	..	2	2	..	5/8	4	40.00
10ALWW	..	1/0	1/0	..	3/4	2	90.10

Supplied with one armor plate only — less 5%. Drop one "W" from catalog number above.

ALUMINUM CONNECTORS WITH SPACER



For aluminum to copper. May also be used for steel to copper. Aluminum alloy bolt and nut with plated copper spacer and plated copper contact with plating removed from contact surfaces to identify copper conductor location.

6ALC	4	5	6	6		8	\$30.00
4ALC	2	4	4	4	1/4	6	35.00
2ALC	1	2	2	..	5/8	4	38.00
10ALC	1/0	1/0	1/0	..	3/4	2	85.70

ALUMINUM CONNECTORS—ONE ARMOR PLATE, ONE SPACER



For aluminum to aluminum connections.

6ALAW	4	5	6	6		8	\$31.80
4ALAW	2	4	4	4	1/4	6	36.80
2ALAW	..	2	2	..	5/8	4	40.00
10ALAW	..	1/0	1/0	..	3/4	2	90.10

SERVICE ENTRANCE CONNECTORS

Aluminum Body Slotted Aluminum Screw



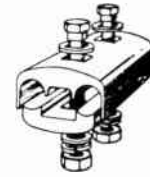
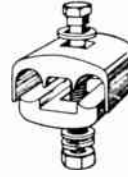
Aluminum spacers are cleaned and treated to eliminate oxidized contact surfaces.

Cat. No.	Size	Per 100
Two Plated Aluminum Spacers—For Aluminum to Aluminum		
AL46KK	4-6 sol, str, ACSR	\$18.60
AL24KK	2-4 sol, str, ACSR	23.40
Two Bimetal Spacers—For Aluminum to Copper		
AL46UU	4-6 sol, str, ACSR	22.20
AL24UU	2-4 sol, str, ACSR	27.80
Bronze Body—No Plate—No Spacer—For Copper to Copper		
R-68	6-8 sol, str, AWG	11.00
R-46	4-6 sol, str, AWG	14.30
R-24	2-4 sol, str, AWG	28.90
Plated—With Spacer—For Aluminum to Copper, Copper to Copper, Aluminum to Aluminum		
R-68GP	6-8 sol, str, AWG	14.60
R-46GP	4-6 sol, str, AWG, 4ACSR	18.90
R-24GP*	2-4 sol, str, AWG, 4ACSR	35.90

*Hex head screw not slotted.

DISTRIBUTION CLAMPS

For Aluminum to Copper and Aluminum to Aluminum



These clamps are used to make tap or distribution connections on aluminum conductors with either aluminum or copper conductors. The design of the clamp, based on the mass anode principle reduces galvanic corrosion to insignificant proportions. This eliminates the need for copper liners for copper to aluminum connections.

The range of conductor sizes and types is clearly stamped on the body of each clamp. The hex head square shank galvanized steel bolts permit tightening one wrench against another. The square shank also allows one wrench application where desirable. This type bolt affords a gripping surface for hot line application and makes possible the use of a socket stick for tightening.

Factory lube-coated bolts assure constant pressures for given torques. Clamps are available with factory applied No-Melt grease. When clamps with this particular grease are used on clean conductors, the best and most permanent connection is assured. The No-Melt grease has high film strength and will not break down with temperature and age. Greased clamps are individually packaged in plastic bags. Both grooves contain a measured amount of No-Melt grease.

Cat. No.	Conductor Range				Per 100
	Solid, Strand or ACSR		Tap		
	Max.	Min.	Max.	Min.	
Single Bolt					
6052	1/0	8	1/0	8	\$48.65
6052G	1/0	8	1/0	8	55.35
6053	4/0	2	4/0	2	66.20
6053G	4/0	2	4/0	2	74.00
6054	336.4	1/0	336.4	1/0	83.35
6054G	336.4	1/0	336.4	1/0	91.10
6058	336.4	1/0	1/0	8	85.50
6058G	336.4	1/0	1/0	8	93.30

Two-Bolt					
6052-2	1/0	8	1/0	8	75.60
6052-2G	1/0	8	1/0	8	83.40
6053-2	4/0	2	4/0	2	116.80
6053-2G	4/0	2	4/0	2	124.50
6054-2	336.4	1/0	336.4	1/0	161.20
6054-2G	336.4	1/0	336.4	1/0	168.90
6058-2	336.4	1/0	1/0	8	166.50
6058-2G	336.4	1/0	1/0	8	174.50

"G" suffix indicates factory applied no-melt inhibitor compound. Individually packaged in polyethylene plastic bags.

ALUMINUM CONNECTORS—ONE ARMOR PLATE AND SPACER

For aluminum to copper. May be used for steel to copper. Aluminum alloy bolt and nut with plated copper spacer, plated copper contact in nut plus one aluminum armor plate. Plating removed from copper contacting surfaces.

Cat. No.	AWG		Alum. ACSR Str.	BWG Sol. or Inches	BWG Str.	Per 100	
	Sol.	Str.					
6ALCW	4	5	6	6	8	\$33.20	
4ALCW	2	4	4	4	1/4	6	38.60
2ALCW	1	2	2		5/8	4	41.80
10ALCW	2/0	1/0	1/0		3/4	2	94.20

RELIABLE

TWO-BOLT CONNECTORS



These connectors have a cast aluminum-bronze body and bridge with silicone-bronze machine bolts. Connectors assemble to conductors in one piece. The bridge swings open to admit conductors. One bolt is staked and the second bolt is held captive by a neoprene retaining ring. Both bolts have pilot points for easy thread engagement.

All connectors are clearly marked to show range of conductor sizes. The clean threads, with a minimum of friction, develop pressures necessary to make an efficient electrical connection.

Two-Bolt Connectors — No Spacer

Cat. No.	Max. Wire Size—Copper—		Per 100
	AWG Solid	AWG Strand	
6000*	3/0	2/0	\$84.40
6001*	4/0	4/0	136.40
6002*	.....	350MCM	267.00
6003*	.....	500MCM	311.60
6004*	.....	800MCM	440.70
6005*	.....	1000MCM	623.10

*Listed Reexamination Service Underwriters' Laboratories.

Plated Two-Bolt Connectors — No Spacer

Cat. No.	Max. Wire Size—			Per 100
	ACSR	Str. Alum.	Str. Copper	
6020	2/0	2/0	2/0	\$90.90
6021	4/0	4/0	4/0	146.70
6022	300MCM	350MCM	350MCM	287.00
6023	397.5MCM	500MCM	500MCM	334.90
6024	666.6MCM	800MCM	800MCM	473.70
6025	900MCM	1000MCM	1000MCM	669.90

Spacer Type Two-Bolt Connectors Wire Size — Copper

Cat. No.	Max. Wire Size—			Per 100
	AWG Solid	AWG Strand	Min. AWG	
6010	3/0	2/0	8 sol	\$ 97.10
6011	4/0	4/0	6 sol	156.90
6012	.....	350MCM	2 str	307.10
6013	.....	500MCM	1/0 str	358.20
6014	.....	800MCM	4/0 str	506.70
6015	.....	1000MCM	4/0 str	716.70

Spacer Type Plated Two-Bolt Connectors

Cat. No.	Max. Wire Size—				Per 100
	ACSR	Str. Alum.	Str. Copper	Min. AWG	
6030	2/0	2/0	2/0	8 sol	\$108.70
6031	4/0	4/0	4/0	6 sol	175.60
6032	300MCM	350MCM	350MCM	2 str	343.40
6033	397.5MCM	500MCM	500MCM	1/0 str	400.80
6034	666.6MCM	800MCM	800MCM	4/0 str	566.80
6035	900MCM	1000MCM	1000MCM	4/0 str	801.40

FLIP-ON TAP CLAMPS

For ACSR Over Armor Rods to Aluminum or Steel Taps



Wire Size

Cat. No.	Line Side ACSR			Tap Side ACSR			Per 100	
	Over Armor	Size In.	Min.	Max.	Min.	Max.		
438AL	..	7/8	1/4	2	8	3/8	\$49.45	
555AL	4	8	1/2	3/8	4	8	1/4	49.90
600AL	2	4	5/8	1/2	4	8	1/4	50.45
744AL*	1/0	4	3/4	7/8	1/0	4	3/8	58.70

For ACSR Over Armor Rods, or Steel to Copper Taps

Cat. No.	Line Side ACSR			Tap Side Copper			Per 100	
	Over Armor	Size In.	Min.	Max.	Min.	Max.		
438ALC	..	7/8	1/4	2	10	3/8	\$50.65	
555ALC	4	8	1/2	3/8	4	12	1/4	51.05
600ALC	2	4	5/8	1/2	2	8	1/4	52.00
744ALC*	1/0	4	3/4	7/8	1/0	6	3/8	71.40

*Galvanized steel body and screw.

For Copper or Copperweld to Steel Guys or Aluminum Taps

Cat. No.	Line Side			Tap Side			Per 100	
	AWG Str.	AWG Sol.	Size In.	ACSR Max.	Size In. Min.	Max.		
438CUG	1/0	6	3/8	1/8	2	4	7/8	\$50.15

Catalog numbers denote decimal equivalent of maximum wire size.

BRONZE GROUND CLAMPS



Ground Rod Clamps are formed of heavy gauge silicon bronze for copper and Copperweld rods. The design assures high pressure contact between ground wire and rod.

Cat. No.	Rod Size In.	Wire		AWG Min.	Wt. Lbs. Per 100	Less Std. Pkg.	Per 100 Std. Pkg.
		Max.	Min.				
E48 ^T	1/2	4	14	10	8	\$31.10	\$28.00
E58 ^T	5/8	1/0	14	16	8	36.10	32.50
E68	3/4	1/0	14	20	8	45.60	41.05

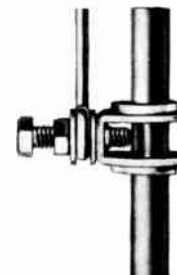
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GALVANIZED STEEL CLAMPS

For Steel Rods and Pipes

Cat. No.	Max. Rod Size			Min. Rod Size			Less Std. Pkg.	Per 100 Std. Pkg.
	Rod Size In.	Wire Max.	AWG Min.	Rod Size In.	Wire Max.	AWG Min.		
S48	1/2	4	14	3/8	1	8	\$17.92	\$16.13
S58	5/8	1/0	14	1/2	3/0	8	21.18	19.06
S68	3/4	1/0	14	5/8	3/0	8	22.81	20.53

GALVANIZED STEEL KLING KLAMPS



Cat. No.	Rod Size		Wire AWG		Less Than Std. Pkg.	Per 100 Std. Pkg.
	Max.	Min.	Max.	Min.		
K48	1/2	3/8	2	14	\$30.00	\$27.00
K58	5/8	1/2	2	14	35.00	32.00

RELIABLE

GALVANIZED STEEL GROUND ROD CLAMP



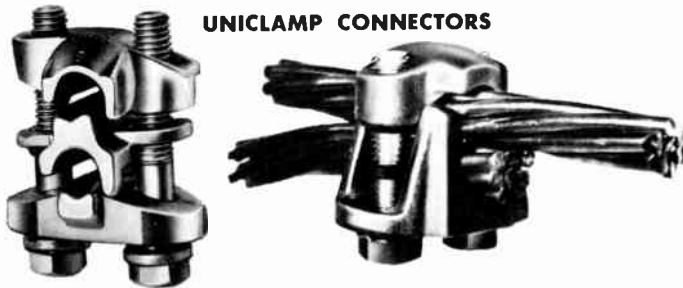
Designed for use on galvanized steel ground rods. The clamp consists of two galvanized malleable iron castings which are bolted together in a cantilever arrangement. The clamp can be used on 3/8" and 1/2" diameter rods and provides a large surface contact with the ground rod.

The ground wire connection is made by inserting a No. 4 or No. 6 ground wire approximately 9/16" into the hole provided for that purpose. The ground wire is locked into the hole in the clamp with a locking set screw.

Cat. No.	Rod Size		Wire Size		Price Per 100	
	Max.	Min.	Max.	Min.	1-9	10+
3458	3/4	5/8	4	6	\$183.95	\$165.55

CHANCE

UNICLAMP CONNECTORS



ALUMINUM UNICLAMP

COPPER UNICLAMP

Made in cadmium-coated and uncoated aluminum-bodied and copper-alloy bodied styles.

One-piece construction means there are no loose parts to drop. Castings swivel independently for easy installations.

For connecting large size copper or aluminum wires from No. 1/0 to 1000 MCM.

Series 500 are available with contact surfaces pre-coated with z.i.n. 100 Electrical Contact Aid. Each clamp is sealed in a transparent plastic bag to protect it from damage and foreign matter. Linemen can remove clamp without removing their gloves by snipping end of bag with sidecutters.

Cat. No. Max. Wire Size Wt. Per 100 Per 100

Aluminum-Body Clamps

UC510AA	1/0 ACSR	42	\$105.56
UC540AA	4/0 ACSR	48	170.48
UC550AA	336.4 ACSR	42	343.53
UC560AA	477 ACSR	48	388.77

Aluminum-Body Clamps with Fortified Plating

UC510AGP	1/0 ACSR	42	127.24
UC540AGP	4/0 ACSR	48	205.82
UC550AGP	336.4 ACSR	42	400.55
UC560AGP	477 ACSR	48	459.46

Copper-Body Clamps

0-UC	1/0 Str.	27	75.54
00-UC	2/0 Str.	32	82.13
0000-UC	4/0 Str.	64	130.08
35-UC	350 MCM	100	254.46
50-UC	500 MCM	122	269.92
75-UC	750 MCM	167	403.79
100-UC	1000 MCM	263	571.12

Copper-Body with Spacer

0-UC-S	1/0 Str.	29	84.22
00-UC-S	2/0 Str.	40	91.51
0000-UC-S	4/0 Str.	73	145.17
35-UC-S	350 MCM	107	283.92
50-UC-S	500 MCM	145	331.15
75-UC-S	750 MCM	192	450.43
100-UC-S	1000 MCM	311	636.96

RELIABLE

STATION GROUND CLAMPS

For Grounding Communication Circuits



The No. 1 and No. 13 Station Ground Clamps are considered the most efficient methods for connecting ground wires to water pipes or conduit. They are suitable for use on telephone, radio and signal circuit station grounds.

Cat. No.	Pipe Size, In.	Wire Size AWG	Wt. Lbs. Per 100	Per 100	
				1-49	500+
1T	1 1/4	3/8	5	\$19.45	\$17.50
13T	1 1/4	5/8	8	46.65	42.00

REDUCING COMPRESSION SLEEVES

FOR COPPER WIRE TO COPPER OR COPPER-COVERED STEEL WIRE

Gauges AWG to AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Per 100
17, 18 to 19, 20, 22	2-045x036B	.....	\$4.50
14 to 19, 20, 22	1-064x036C	.....	6.42
14 to 17, 18	1-064x045C	.....	6.42
12 to 19, 20, 22	1-080x036C	.....	6.42
12 to 17, 18	1-080x045C	12x17-18-C-1	6.42
12 to 17, 18	1-080x045D	12x17-18-D-1	11.24
12 to 16	1-080x051C	12x16-C-1	6.42
12 to 14	1-080x064C	12x14-C-1	6.42
12 to 14	1-080x064D	12x14-D-1	11.24
10 to 19, 20, 22	1-102x036C	.....	7.50
10 to 17, 18	1-102x045C	10x17-18-C-1	7.50
10 to 17, 18	1-102x045D	10x17-18-D-1	11.24
10 to 16	1-102x051C	10x16-C-1	7.50
10 to 14	1-102x064C	10x14-C-1	7.50
10 to 14	1-102x064D	10x14-D-1	11.24
10 to 12	1-102x080C	10x12-C-1	7.50
10 to 12	1-102x080D	10x12-D-1	11.24
6 to 14	1-162x064J	6x14-J-1	16.05
6 to 10	1-162x102J	6x10-J-1	16.05

Standard box is 100 except Stock No. 2-045x036B is 200.

FOR GALVANIZED "BB" WIRE

Gauges BWG to BWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Per 100
12 to 14	4-109x083C	12x14-C-2	\$8.18
12 to 14	2-109x083D	12x14-D-2	8.18
10 to 14	2-134x083J	10x14-J-2	16.75
10 to 12	2-134x109J	10x12-J-2	16.75
9 to 12	2-148x109J	9x12-J-2	18.48
9 to 10	2-148x134J	9x10-J-2	18.48
8 to 10	2-165x134J	8x10-J-2	20.53
8 to 9	2-165x148J	8x 9-J-2	20.53

Standard box is 100.

FOR GALVANIZED WIRE TO DROP, BRIDLE AND INSIDE WIRE

Gauges BWG to AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Per 100
14 to 19, 20, 22	2-083x036C	.....	\$7.10
14 to 17, 18	2-083x045C	14x17-18-C-21	7.10
14 to 16	2-083x051C	14x16-C-21	7.10
12 to 19, 20, 22	4-109x036C	.....	8.18
12 to 17, 18	4-109x045C	12x17-18-C-41	8.18
12 to 17, 18	2-109x045D	12x17-18-D-21	8.18
12 to 16	4-109x051C	12x16-C-41	8.18
12 to 16	2-109x051D	12x16-D-21	8.18
12 to 14	4-109x064C	12x14-C-41	8.18
12 to 14	2-109x064D	12x14-D-21	8.18
10 to 17, 18	2-134x045J	10x17-18-J-21	15.70
10 to 16	2-134x051J	10x16-J-21	15.70
10 to 14	2-134x064J	10x14-J-21	15.70

Standard box is 100.

"B", "C", "D" and "J" in catalog number indicates die groove.

TENSION TYPE COMPRESSION SLEEVES



Compression-type sleeves pressed in a compression tool make the surest splices for communication wires. This combination is time proven for both physical and electrical requirements.

FOR SOLID COPPER WIRE

Gauge AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Tool Groove	Approx. Shpg. Wt. Lbs. Per 100	Per 100
14	3-064B	14-B-3	B	1 1/2	\$2.25
14	1-064C	14-C-1	C	1 3/4	4.10
12	1-080C	12-C-1	C	1 1/2	4.28
12	1-080D	12-D-1	D	1 3/4	7.49
10	1-102C	10-C-1	C	1 1/4	5.00
10	1-102D	10-D-1	D	1 3/4	7.49
10	1-102E	10-E-1	E	2	8.73
9	1-114D	9-D-1	D	1 1/2	7.49
9	1-114E	9-E-1	E	2	8.73
8	1-128E	8-E-1	E	1 3/4	8.73
8	1-128J	8-J-1	J	4 1/2	11.41
6	1-162J	6-J-1	J	4 1/2	11.41

Standard box is 100.

FOR SOLID COPPER-COVERED STEEL

Gauge AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Tool Groove	Approx. Shpg. Wt. Lbs. Per 100	Per 100
14	1-064C	14-C-1	C	1 1/2	\$4.10
12	1-080C	12-D-1	D	1 3/4	7.49
12	.....	12-D-3	D	5 1/4	16.39
10	3-102D	10-D-3	D	2 1/2	8.10
10	1-102J	10-J-1	J	5 1/2	11.41
9	1-114J	9-J-1	J	5 1/2	11.41
8	3-128J	8-J-3	J	5	15.72

Standard box is 100.

FOR GALVANIZED STEEL CONDUCTORS

Gauge BWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Tool Groove	Per 100
14 "BB", "85"	2-083C	14-C-2	C	\$4.73
14 "BB", "155"	.....	14-C-5-155	C	11.00
14 "BB", "85"	2-083D	14-D-2	D	5.45
12 "BB"	4-109C	12-C-4	C	5.45
12 "BB"	5-109C	12-C-5	C	6.68
12 "BB"	2-109D	12-D-2	D	5.45
12 "BB"	5-109-DBB	12-D-5BB	D	7.50
12 "85"	5-109-D85	12-D-5-85	D	9.00
12 "135"	5-109D135	12-D-5-135	D	10.50
12 "190", "195"	5-109D190	12-D-5-190	D	14.63
12 Rusty or Undersize	2-102C	12-C-2	C	5.45
10 "BB", "85"	2-134J	10-J-2-85	J	10.47
9 "BB", "85"	2-148J	9-J-2BB	J	11.55
8 "BB"	2-165J	8-J-2BB	J	12.82

Standard box is 100.

FOR ALUMOWELD WIRE

Size AWG	Nat'l. Tel. Nicopress No.	Price Per 100 AWG	Size	Nat'l. Tel. Nicopress No.	Per 100
12	8-080D	\$7.65	10	8-102J	\$11.68
11	8-091D	7.65	8	8-128P	26.88

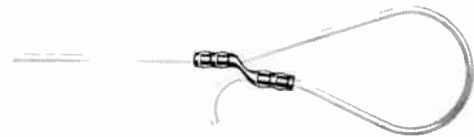
FOR TELEPHONE DROP, BRIDLE AND INSIDE WIRE



Copper-Covered Steel, Copper and Bronze

Wire Size AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Tool Groove	Approx. Shpg. Wt. Lbs. Per 100	Per 100
24	1-025A	.....	A	1/2	\$2.25
19-20-22-24	3-036A	19-24-A-3	A	1/2	2.25
17-18	3-045B	17-18-B-3	B	3/4	2.25
16	3-051B	16-B-3	B	3/4	2.25
14	3-064B	14-B-3	B	3/4	2.25
Steel of I.M. Drop Wire					
BWG .0625	4-062C	.....	C	1 1/2	4.91

OFFSET DEAD-END SLEEVES



FOR SOLID COPPER WIRE

Gauge AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Std. Box	Per 100
14	91-064C	OD-14-C-1	100	\$7.17
12	91-080C	OD-12-C-1	100	7.49
12	91-080D	OD-12-D-1	100	13.10
10	91-102C	OD-10-C-1	100	8.75
10	91-102D	OD-10-D-1	100	13.10

Standard box is 100.

FOR SOLID COPPER-COVERED STEEL WIRE

Gauge AWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Std. Box	Per 100
14	91-064C	OD-14-C-1	100	\$7.17
12	91-080C	OD-12-C-1	100	7.49
12	91-080D	OD-12-D-1	100	13.10
10	93-102D	OD-10-D-3	100	14.18
10	91-102J	OD-10-J-1	100	18.72
9	91-114J	OD- 9-D-1	100	18.72
8	91-128J	OD- 8-J-1	100	18.72

Standard box is 100.

FOR GALVANIZED STEEL WIRE

Gauge BWG	Nat'l. Tel. Nicopress No.	Rel. Elec. Squeez No.	Per 100
14 "BB", "85"	92-083C	OD-14-C-2	\$8.27
14 "BB", "85"	95-083C	OD-14-C-5	10.95
14 "BB", "85"	92-083D	OD-14-D-2	9.53
12 "BB"	94-109C	.....	9.53
12 "BB"	95-109C	OD-12-C-5	11.69
12 "BB"	92-109D	OD-12-D-2	9.53
12 "BB"	95-109DBB	OD-12-D-5BB	13.13
12 "85"	95-109D85	OD-12-D-5-85	15.75
12 "135", "190", "195"	95-109D135	OD-12-D-5-135	18.38
10 "BB", "85"	92-134J	OD-10-J-2	18.33
9 "BB", "85"	92-148J	OD-9-J-2	20.22
8 "BB"	92-165J	OD-8-J-2-BB	22.44

Standard box is 100.

NON-TENSION TAPS



FOR COPPER, COPPER-COVERED STEEL AND BRONZE

Gauges AWG to AWG	Nat'l. Tel. NicoTap No.	Rel. Elec. Squeez No.	Per 100
17, 18, 19 to 17, 18, 19	T2-045B	T-17-18-B-2	\$4.13
16 to 16	T2-051B	T-14-16-B-2	4.13
14 to 19, 20	T1-064x036C	T-14-20-C-1	13.88
14 to 17, 18	T1-064x045C	T-14x17-18-C-1	13.88
14 to 14	T1-064C	T-14-C-1	9.00
12 to 19, 20	T1-080x036C	T-12x20-C-1	13.88
12 to 17, 18	T1-080x045C	T-12x17-18-C-1	13.88
12 to 17, 18	T1-080x045D	.....	15.00
12 to 16	T1-080x051C	T-12x14-16-C-1	13.88
12 to 14	T1-080x064C	T-12x14-16-C-1	13.88
12 to 14	T1-080x064D	.....	15.00
12 to 12	T1-080C	T-12-C-1	9.00
12 to 10	T1-080x102C	T-12x10-C-1	10.50
10 to 19, 20	T1-102x036D	T-14x20-C-1	15.00
10 to 17, 18	T1-102x045D	T-10x17-18-D-1	15.00
10 to 16	T1-102x051D	T-10x14-16-D-1	15.00
10 to 14	T1-102x064D	T-10x14-16-D-1	15.00
10 to 12	T1-102x080D	T-10x12-D-1	15.00
10 to 10	T1-102D	T-10-D-1	10.50
6 to 14	T1-162x064J	T-6x14-16-J-1	32.25
6 to 12	T1-162x080J	.....	32.25
6 to 6	T1-162J	T-6-J-1	22.12

FOR STEEL TO COPPER, COPPER-COVERED STEEL AND BRONZE

Gauges BWG to AWG	Nat'l. Tel. NicoTap No.	Rel. Elec. Squeez No.	Per 100
14 to 19, 20	T2-083x036C	T-14x20-C-21	14.44
14 to 17, 18	T2-083x045C	T-14x17-18-C-21	14.44
14 to 14	T2-083x064C	T-14x14-16-C-21	14.44
14 to 14	T2-083x064D	.....	15.78
14 to 12	T2-083C	T-14-C-2	9.45
12 to 19, 20	T2-109x036D	T-12x20-D-21	15.78
12 to 17, 18	T2-109x045D	T-12x17-18-D-21	15.78
12 to 16	T2-109x051D	T-12x14-16-D-21	15.78
12 to 14	T2-109x064D	T-12x14-16-D-21	15.78
12 to 10	T2-109D	T-12-D-2	11.03
12 to 8	T2-109x128D	.....	15.78
10 to 17, 18	T2-134x045J	T-10x17-18-J-21	35.25
10 to 16	T2-134x051J	T-10x14-16-J-21	35.25
10 to 14	T2-134x064J	T-10x14-16-J-21	35.25
9 to 17, 18	T2-148x045J	T-9x17-18-J-21	35.25
9 to 14	T2-148x064J	T-9x14-16-J-21	35.25
8 to 16	T2-165x051J	.....	35.25
8 to 14	T2-165x064J	T-8x14-16-J-21	35.25
8 to 12	T2-165x080J	T-8x12-J-21	35.25

FOR STEEL TO STEEL

Gauges BWG to BWG	Nat'l. Tel. NicoTap No.	Rel. Elec. Squeez No.	Per 100
14 to 14	T2-083C	T-14-C-2	\$ 9.45
12 to 12	T2-109D	T-12-D-2	11.03
12 to 14	T2-109x083D	T-12x14-D-2	15.78
10 to 10	T2-134J	T-10-J-2	27.37
9 to 9	T2-148J	T-9-J-2	27.37
8 to 8	T2-165J	T-8-J-2	27.37

FOR ALUMOWELD WIRE

Line Wire AWG	Tap Wire AWG	Nat'l. Tel. NicoTap No.	Per 100
12	12	T8-080D	\$ 9.75
12	19-20	T8-080x036D	13.50
11	11	T8-091D	9.75
11	19-20	T8-091x036D	13.50
11	17-18	T8-091x045D	13.50
11	14	T8-091x064D	13.50
11	10	T8-091x102D	13.50
10	10	T8-102D	9.75
10	19-20	T8-102x036D	13.50
10	17-18	T8-102x045D	13.50
10	14	T8-102x064D	13.50

"B", "C", "D" and "J" in catalog number indicate die groove.

REPAIR SLEEVES



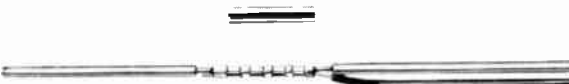
FOR SOLID COPPER WIRE

Gauge AWG	Nat'l. Tel. NicoPress No.	Rel. Elec. Squeez No.	Lgth. In.	Per 100
12	R1-080C	12L-C-1	7	\$10.65
12	R1-080D	12L-D-1	7	18.68
10	R1-102C	10L-C-1	7 1/2	12.45
10	R1-102D	10L-D-1	7 1/2	18.68

FOR GALVANIZED "BB" WIRE

Gauge BWG	Nat'l. Tel. NicoPress No.	Rel. Elec. Squeez No.	Lgth. In.	Per 100
14	R2-083C	14L-C-2	7	\$11.78
12	R4-109C	.....	7 1/2	13.58
12	R2-109D	12L-D-2	7 1/2	13.58
10	R2-134J	10L-J-2	8 1/2	26.17
9	R2-148J	9L-J-2	9	28.87
8	R2-165J	8L-J-2BB	10	32.02

TAP-OFF FOR MULTI-PAIR DISTRIBUTION WIRE



Wire Sizes AWG	Nat'l. Tel. NicoPress No.	Rel. Elec. Squeez No.	Per 100
19, 20, 22 to 19, 20, 22	1744-B	1920B	\$3.38
19, 20, 22, 24 to 17, 18	1744-B	1920B	3.38
19, 20, 22, 24 to 14	1727-B	1914B	3.38

TYPE "H" SPlicing SLEEVES FOR TERMINAL BLOCK CONNECTIONS

Cable Con- ductor AWG	Term. Block Con- ductor AWG	Nat'l. Tel. NicoPress No.	Rel. Elec. Squeez No.	Per 100
19	24	H-19B	H-19-B-1	\$1.75
20 or 22	24	H-20-22B	H-20-22-B-1	1.65
24 or 26	24	H-24-26B	H-24-26-B-1	1.80

INSULATED SPlicing SLEEVES FOR TERMINAL BLOCK CONNECTIONS

Wire Size AWG	Approx. Thickness Wire Insul. Inches	Nat'l. Elec. NicoPress No.	Rel. Elec. Squeez No.	Per 100
19	.025	*3319	28-19-N	\$9.30
19	.015	*4519	.....	9.30
22	.025	*3322	28-22-N	9.30
22	.015	*4522	.....	9.30
24	.025	*3324	28-34-N	9.30

*For use in Tool No. D17.

INSULATED REDUCING SLEEVES

Gauges to AWG	Nat'l. Tel. NicoPress No.	For Use in Tool No.	Std. Box	Per 100
22 to 24	3322-24	D17	100	\$11.63
19 to 24	3319-24	D17	100	11.63
19 to 22	3319-22	D17	100	11.63

"B", "C", "D" and "J" in catalog number indicate die groove.

NICOPRESS SPLICE SEPARATORS



National No.	Std. Box	Approx. Shpg. Wt. Lbs. Per 100	Per 100
Drop Wire 17 and 18 AWG			
3456-B	100	1	\$2.25
One Pair Parallel ("C" Rural) Distribution Wire 12 AWG, 14 AWG, 14 BWG			
3457-CD	100	2	3.38

NICOPRESS TOOLS



Type No. 17

For Telephone Drop, Bridle and Inside Wire For sleeves with A or B in catalog numbers.

Cat. No.	Length Inches	Wt. Oz.	Each
17-2	8	9	\$4.13
For Multi-Pair Distribution Wire			
D17	8	9	\$4.88



Type No. 31

National Type No. 31 Two-Groove Tools: Popular groove combinations are DC, DJ and CJ. Length 11 1/4 inches, weight 2 lbs. each \$12.00

National Type No. 31 Single-Groove Tools: Available in C, D, E or J groove. Length 11", weight 2 lbs. each 10.50

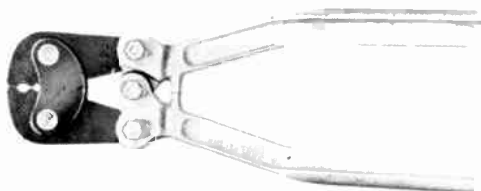
SQUEEZ TOOLS



Type 3

For Telephone Drop Wire, Bridle and Inside Wire

Cat. No.	Die Grooves	Length Inches	Wt. Oz.	Each
23-BA	B & A	8 1/2	6	\$3.50
23-N	N	8 1/2	6	3.50



Type 2

Available in groove combinations of DC, DJ, and CJ. Length 12". Weight 3 lbs. Each \$12.00

NATIONAL CABLE RINGS AND SADDLES

GALVANIZED STEEL CABLE RINGS



When ordering, specify Ring Size and Strand Size. Rings are also available in Copperweld or Calsun Bronze, and an Extra Long type.

Non-stock sizes are subject to a \$30.00 net set-up charge.

Ring Size In.	Max. Cable Dia., In.	Std. Pkg.	Approx. Shpg. Wt. Lbs. Per 1000	Per 1000
1 1/2	1 3/8	1000	47	\$38.80
2	1 5/8	500	90	52.50
2 (light)	1 5/8	500	66	44.40
2 1/2	1 7/8	500	108	65.30
3	2 1/4	400	124	74.00
3 1/2	2 5/8	300	140	84.00
4	3	200	195	137.10
4 1/2	3 1/2	200	210	158.50

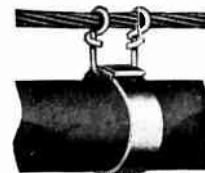
NICOPRESS CABLE RING SADDLES



Saddles for Extra Long rings should be so specified. Also available in aluminum.

Ring Size Inches	Approx. Shpg. Wt. Lbs. Per 1000	Galvanized Steel	Commercial Bronze
1 1/2	90	\$60.00	\$152.50
2	100	76.00	168.00
2 1/2	110	94.00	199.00
3	135	112.00	251.00
3 1/2	150	128.00	261.50
4	169	162.00	326.50
4 1/2	184	202.00	358.00

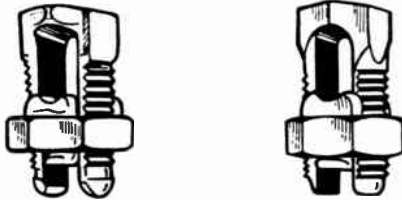
NICOPRESS ADJUST-A-STRAPS



Max. Cable Dia. In.	Strap Lgth. In.	No. of Wraps	Stock No.	Std. Pkg.	Std. Wt. Lbs.	Per 100
3/4	8	2	2007	500	39	\$4.80
1	9	2	2010	500	40 1/4	5.20
1 1/2	12 1/4	2	2015	500	48 1/2	6.00
2	15 3/4	2	2020	250	28	7.60
2 5/8	28	3	2026	250	40	9.20
3 1/4	34	3	2033	200	37 3/4	11.00
5	50	3	2050	200	52 1/2	14.00
6 1/2	64	3	2065	200	62 1/4	16.40

RELIABLE

COPPER SPLIT BOLT CONNECTORS



For Copper and Copperweld Conductors

All connectors having the letter "F" in the catalog number are cold-forged to produce high strength connectors that provide continuous dependable pressure on conductors and have a reserve strength for abnormal conditions. The cold-forging produces a close-grained, formed structure free of sharp edges and with highly accurately embossed threads. Well designed pilots simplify the positioning of the nut in relation to the thread for easy reassembly. Deviation from a true hex on the forged head provides two generous flats for greater leverage when tightening the connectors.

Basic Connectors Without Accessories
(Cat. No.'s. 2F, 4F, 6F and 8F will take 3 Solid Wires)

Cat. No.	Max. Wire Size		Copper-weld	Per 100
	AWG Solid	AWG Strand		
9F	9	10	-----	\$ 15.40
9FB*	9	10	-----	16.00
8F*	8	8	-----	20.10
8FB*	8	8	-----	21.10
6F	6	8	8A	22.20
4F	4	4	6A	27.10
2F	2	3	4A	38.20
1F	1	1 & 2	3A	41.80
1/0F	2/0	1/0	2A	55.70
2/0F	3/0	2/0	-----	92.00
4/0F	4/0	250MCM**	-----	156.00
679	-----	350MCM	-----	318.90
813	-----	500MCM	-----	414.20
996	-----	750MCM	-----	797.00
1152	-----	1000MCM	-----	1083.80

**19 & 37 Str.

PLATED CONNECTORS WITHOUT SPACER

For copper to copper, steel to steel, aluminum to aluminum. Recommended Spacer Type for aluminum.

Cat. No.	Steel BWG		Max. Wire Size		Alum. or Copper AWG		Per 100
	ACSR	Sol.	Str. or Amer.	Guy Str.	Sol.	Str.	
9FG*	-----	12	-----	-----	9	10	\$19.70
8FG*	-----	10	-----	-----	7	8	21.10
6FG	-----	8	-----	-----	6	8	23.30
4FG	6	6	8	-----	4	4	28.60
2FG	4	4	6	1/4"	2	3	40.20
1FG	2	2	4	5/8"	1	1 & 2	43.80
1/0FG	1/0	..	2	3/4"	2/0	1/0	58.60
2/0FG	2/0	..	..	7/8"	3/0	2/0	96.60
4/0FG	4/0	..	..	1 1/2"	4/0	250†	163.80

*Bridging Connectors for Telephone and Signal Lines.
†19 & 37 str.

ALUMINUM CONNECTORS — WITH SPACER



For aluminum to aluminum. May be used steel to steel or steel to aluminum.

Cat. No.	AWG		ACSR	Max. Wire Size		Per 100
	Sol.	Str.		Alum.	Steel	
6ALA	4	5	6	6	8	\$27.90
4ALA	2	4	4	4	1/4 6	32.40
2ALA	..	2	2	..	7/8 4	35.20
10ALA	..	1/0	..	..	3/8 2	79.30

PLATED SPLIT BOLT CONNECTORS WITH SPACER



An all purpose connector for copper to copper, copper to aluminum, aluminum to aluminum, steel to copper and steel to aluminum.

Cat. No.	Steel BWG			Alum. or Copper AWG		Per 100	
	ACSR	Sol.	Str. or Amer.	Sol.	Str.		
9FGB*	-----	12	-----	9	10	\$21.60	
8FGB*	-----	10	-----	7	8	23.20	
6FGP	-----	8	-----	6	8	26.70	
4FGP	6	6	8	4	4	32.60	
2FGP	4	4	6	1/4"	2	3	46.00
1FGP	2	..	4	5/8"	1	1 & 2	50.20
1/0FGP	1/0	..	2	3/4"	2/0	1/0	66.90
2/0FGP	2/0	..	..	7/8"	3/0	2/0	110.40
4/0FGP	4/0	..	..	1 1/2"	4/0	250†	179.60

*Bridging Connectors for Telephone and Signal Lines.

†19 & 37 strand.

SPLIT BOLT CONNECTORS — TWO BIMETAL SEPARATORS



For copper to aluminum, aluminum to copper and copper or aluminum to steel. Aluminum on inside radius of bimetal separators.

Cat. No.	Copper or Alum.		ACSR	Slot Size, In.	Per 100
	AWG Solid	AWG Strand			
6FUU	6	8	..	.168	\$30.90
4FUU	4	4	6	.218	35.70
2FUU	2	3	4	.272	46.90
1FUU	1	1 & 2	2	.326	50.30
1/0FUU	2/0	1/0	1/0	.408	64.30
2/0FUU	-----	2/0	2/0	.450	96.30

Bimetal Separator Only As Used in FUU Above

- 6U for 6 solid AWG Split Bolt Connector
 - 4U for 4 solid AWG Split Bolt Connector
 - 2U for 2 solid AWG Split Bolt Connector
 - 1U for 2 strand AWG Split Bolt Connector
 - 1/0U for 1/0 strand AWG Split Bolt Connector
 - 2/0U for 2/0 strand AWG Split Bolt Connector
- Per 100: \$3.15

ALUMINUM SPLIT BOLT CONNECTORS WITHOUT SPACER



Note: It is recommended that a spacer be added to this Connector where one or two stranded aluminum conductors are used. See Type ALA.

Cat. No.	AWG		ACSR	Max. Wire Size		Per 100
	Sol.	Str.		Alum.	Steel	
6AL	4	5	6	6	8	\$25.40
4AL	2	4	4	4	1/4 6	29.40
2AL	..	2	2	..	7/8 4	32.00
10AL	..	1/0	1/0	..	3/8 2	72.10

T & B UTILITY PRODUCTS

SHURE SPLICER

T&B Shure Splicer Connectors meet or exceed Class A-2 requirements of EEL-NEMA Standard TDJ-162, when properly installed on aluminum or aluminum to copper connectors. A solid center barrier provides for quick and easy wire positioning, proper distribution of inhibitor

around the wire, and current equalization on stranded conductors. Self-insulated Shure Splicer Connectors have an extruded nylon cover with a dielectric strength exceeding service drop cable insulation.



For Service Entrance Splicing

Self-Insulated		Conductor A			Conductor B			Uninsulated				
Cat. No.	1/2" Size	Color	AL or CU Sol.	Str.	ACSR	Color	AL or CU Sol.	Str.	ACSR	Cat. No.	1/2" Size	3/8" Size
Q1N51	U1N88	Brown	8	10		Brown	8	10		Q1U51	U1B11	
Q1N52	U1N88	Green	6	8		Green	6	8		Q1U52	U1B88	
Q1N53	U1N81	Green	6	8		Brown	8	10		Q1U53	U1B81	
Q1N54	U1N66	Blue	4	5&6	6-6/1	Blue	4	5&6	6-6/1	Q1U54	U1B66	
Q1N55	U1N68	Blue	4	5&6	6-6/1	Green	6	8		Q1U55	U1B68	
Q1N56	U1N61	Blue	4	5&6	6-6/1	Brown	8	10		Q1U56	U1B61	
Q1N80		Blue	4	5&6	6-6/1	Pink	12	12		Q1U80		
Q1N57	U1N44	Orange	2	3&4	4-6/1,7/1	Orange	2	3&4	4-6/1,7/1	Q1U57	U1B44	
Q1N58	U1N46	Orange	2	3&4	4-6/1,7/1	Blue	4	5&6	6-6/1	Q1U58	U1B46	
Q1N59	U1N48	Orange	2	3&4	4-6/1,7/1	Green	6	8		Q1U59	U1B48	
Q1N60	U1N41	Orange	2	3&4		Brown	8	10		Q1U60	U1B41	
Q1N61		Red	1	2		Red	1	2		Q1U61		
Q1N62		Red	1	2		Orange	2	3&4	4-6/1,7/1	Q1U62		
Q1N63		Red	1	2		Blue	4	5&6	6-6/1	Q1U63		
Q1N64		Red	1	2		Green	6	8		Q1U64		
Q1N65	U1N22	Red	1	1&2	2-6/1,7/1	Red	1	1&2	2-6/1,7/1	Q1U65	U1B22	
Q1N67	U1N24	Red	1	1&2	2-6/1,7/1	Orange	2	3&4	4-6/1,7/1	Q1U67	U1B24	
Q1N68	U1N26	Red	1	1&2	2-6/1,7/1	Blue	4	5&6	6-6/1	Q1U68	U1B26	
Q1N69	U1N28	Red	1	1&2	2-6/1,7/1	Green	6	8		Q1U69	U1B28	
Q1N70	U1N21	Red	1	1&2	2-6/1,7/1	Brown	8	10		Q1U70	U1B21	
	U1N1010	Yellow		1/0	1/0-6/1	Yellow		1/0	1/0-6/1			U1B1010
		Yellow		1/0	1/0-6/1	Yellow		1/0	1/0-6/1			U1B1010L
	U1N102	Yellow		1/0	1/0-6/1	Red	1	1&2	2-6/1,7/1			U1B102
	U1N104	Yellow		1/0	1/0-6/1	Orange	2	3&4	4-6/1,7/1			U1B104
	U1N106	Yellow		1/0	1/0-6/1	Blue	4	5&6	6-6/1			U1B106
	U1N108	Yellow		1/0	1/0-6/1	Green	6	8				U1B108
							Std. Pkg.		Wt. Per 100			Price Per 100
							All Q1N Series (Self-Insulated)		4			\$19.70
							All U1N Series (Self-Insulated)		7			21.00
							All Q1U Series (Uninsulated)		3			14.25
							All U1B Series (Uninsulated)		6			16.10
							UB1010L (Uninsulated)		8			36.75



For Large Residential and Commercial Drops

Cat. No.	Color	Side A			Side B			Std. Pkg.	Wt. Per 100	Price Per 100	
		AL or CU Sol.	Str.	ACSR	AL or CU Sol.	Str.	ACSR				
X1U44	Orange	2	3&4	4	Orange	2	3&4	4	500	20	\$64.00
X1U24	Red	1	1&2	2	Orange	2	3&4	4	500	20	64.00
X1U22	Red	1	1&2	2	Red	1	1&2	2	500	20	64.00
X1U104	Yellow		1/0	1/0	Orange	2	3&4	4	500	20	64.00
X1U102	Yellow		1/0	1/0	Red	1	1&2	2	500	20	64.00
X1U1010	Yellow		1/0	1/0	Yellow		1/0	1/0	500	20	64.00
X1U204	Gray		2/0	2/0	Orange	2	3&4	4	500	20	64.00
X1U202	Gray		2/0	2/0	Red	1	1&2	2	500	20	64.00
X1U2010	Gray		2/0	2/0	Yellow		1/0	1/0	500	20	64.00
X1U2020	Gray		2/0	2/0	Gray		2/0	2/0	500	20	64.00
X1U304	Black		3/0	3/0	Orange	2	3&4	4	500	20	64.00
X1U302	Black		3/0	3/0	Red	1	1&2	2	500	20	64.00
X1U3010	Black		3/0	3/0	Yellow		1/0	1/0	500	20	64.00
X1U3020	Black		3/0	3/0	Gray		3/0	2/0	500	20	64.00
X1U3030	Black		3/0	3/0	Black		3/0	3/0	500	20	64.00
X1U404	Pink		4/0	4/0	Orange	2	3&4	4	500	20	64.00
X1U402	Pink		4/0	4/0	Red	1	1&2	2	500	20	64.00
X1U4010	Pink		4/0	4/0	Yellow		1/0	1/0	500	20	64.00
X1U4020	Pink		4/0	4/0	Gray		2/0	2/0	500	20	64.00

Price on Application

T & B UTILITY PRODUCTS

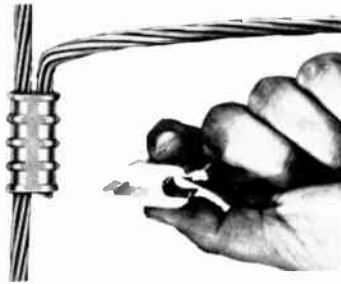
SHURE SPLICER

For Large Residential and Commercial Drops (Continued)

Cat. No.	Color	Side A AL or CU			Side B AL or CU			Std. Pkg.	Wt. Per 100	Per 100	
		Sol.	Str.	ACSR	Sol.	Str.	ACSR				
X1U4030	Pink		4/0	4/0	Black	3/0	3/0	500	20	\$64.00	
X1U4040	Pink		4/0	4/0	Pink	4/0	4/0	500	20	64.00	
X1U266	Natural		266.8	266.8	Natural	266.8	266.8	500	20	75.00	
X1U2664	Natural		266.8	266.8	Orange	2	3&4	4	500	20	75.00
X1U2662	Natural		266.8	266.8	Red	1	1&2	2	500	20	75.00
X1U26610	Natural		266.8	266.8	Yellow		1/0	1/0	500	20	75.00
X1U26620	Natural		266.8	266.8	Gray		2/0	2/0	500	20	75.00
X1U26630	Natural		266.8	266.8	Black		3/0	3/0	500	20	75.00
X1U26640	Natural		266.8	266.8	Pink		4/0	4/0	500	20	75.00
X1U336	Natural	397.5	336.4	336.4 (18x1)	Natural	397.5	336.4	336.4 (18x1)	500	20	75.00
X1U3364	Natural	397.5	336.4	336.4 (18x1)	Orange	2	3&4	4	500	20	75.00
X1U3362	Natural	397.5	336.4	336.4 (18x1)	Red	1	1&2	2	500	20	75.00
X1U33610	Natural	397.5	336.4	336.4 (18x1)	Yellow		1/0	1/0	500	20	75.00
X1U33620	Natural	397.5	336.4	336.4 (18x1)	Gray		2/0	2/0	500	20	75.00
X1U33630	Natural	397.5	336.4	336.4 (18x1)	Black		3/0	3/0	500	20	75.00
X1U33640	Natural	397.5	336.4	336.4 (18x1)	Pink		4/0	4/0	500	20	75.00
X1U33626	Natural	397.5	336.4	336.4 (18x1)	Natural		266.8	266.8	500	20	75.00

H TYPE COMPRESSION TAPS

With Fillerlok™



T&B "H" type taps are used for service drop, secondary or primary tap and grounding installations on all combinations of aluminum to aluminum or aluminum to copper conductors. (Cat.

No. UB214 is designed for making multiple street lighting connections.) They are also used as dead end clamps on aluminum, ACSR or aluminum alloy conductors.

Because of the extra deep groove and fillerlok design, each tap accepts a wide range of conductor sizes so that fewer taps are needed to cover a specific range. For example, the OB102 accommodates 75% of the wire combinations in today's service drop connections. The Fillerlok device, which is an integral part of the connection, acts as a metal filler and permanently locks itself in place upon compression. Properly installed these connectors exceed Class A requirements of EEL-NEMA Standard TDJ-162.

Cat. No.	A Groove			B Groove			Std. Pkg.	Wt. Per 100	Per 100
	ACSR 5005 AAAC	AA or CU Str.	Sol.	ACSR 5005 AAAC	AA or CU Str.	Sol.			
UB214	3-6	2-6	1-5				2500	2.5	\$19.40
OB44	4-6	3-6	2-6	4-6	3-6	2-6	2500	8.5	22.35
OB102	1/0-6	1/0-6	1/0-6	2-6	1-6	2-6	2500	7.7	22.35
OB101	1/0-3	2/0-2	3/0-1	2-6	1-6	1/0-6	2500	8	27.25
OB1010	1/0-4	2/0-4	1/0-2	1/0-4	2/0-4	1/0-2	2500	6.8	27.25
OB201	1/0-2	2/0-2	2/0-1/0	1/0-2	2/0-2	2/0-1/0	2500	6.7	27.25
DB202	2/0-1	3/0-1/0	2/0-1/0	2-6	1-6	1/0-4	2500	12.3	43.90
DB2020	2/0-1	3/0-1/0	2/0	2/0-1	3/0-1/0	2/0-1/0	2500	14.7	43.90
DB404	4/0-3/0	4/0-3/0	4/0	4-6	3-6	2-6	2500	10.7	43.90
DB4020	4/0-3/0	4/0-3/0	4/0	2/0-2	3/0-2	3/0-1/0	2500	16.1	43.90
DB4040	4/0-3/0	4/0-3/0	4/0	4/0-2/0	4/0-3/0	4/0-3/0	2500	15	43.90

PIN TERMINALS



Aluminum Barrel — Tin Plated Copper Pin
T&B Pin Terminals have wide applications in wiring aluminum and ACSR to copper alloy equipment clamps, designed for use with copper. Cold flow problems of aluminum in copper clamps are eliminated. Heavy knurling on pin under factory compression secures pin to aluminum body. After installation of aluminum conductor in the terminal barrel, the pin is installed in the equipment clamp.

Cat. No.	Wire Size			Std. Pkg.	Wt. Per 100	Per 100
	Solid	Stranded	ACSR			
Q5U8	6	8		500	6	\$ 44.00
Q5U6	4	6-5	6	500	6	44.00
Q5U4	2	4-3	4	500	6	44.00
Q5U2	1	2-1	2	500	6	44.00
U5U8	6	8		500	12	49.50
U5U6	4	6-5	6	500	12	49.50
U5U4	2	4-3	4	500	12	49.50
U5U2	1	2-1	2	500	12	49.50
U5U10		1/0	1/0	500	12	49.50
X5U10	1/0-2/0	1/0	1/0	500	52	110.00
X5U20	3/0	2/0	2/0	500	52	110.00
X5U30	4/0	3/0	3/0	500	52	110.00
X5U40		4/0	4/0	500	52	110.00
X5U336	397.5	336.4	336.4	500	52	225.00
H5U397		397.5	397.5	500	72	280.00

T & B TRANSMISSION FITTINGS
ACSR ACCESSORIES



Aluminum Dead-End Body
28100 Series



Steel Dead-End
29300 Series



Jumper Terminal
With Hardware
28600 Series



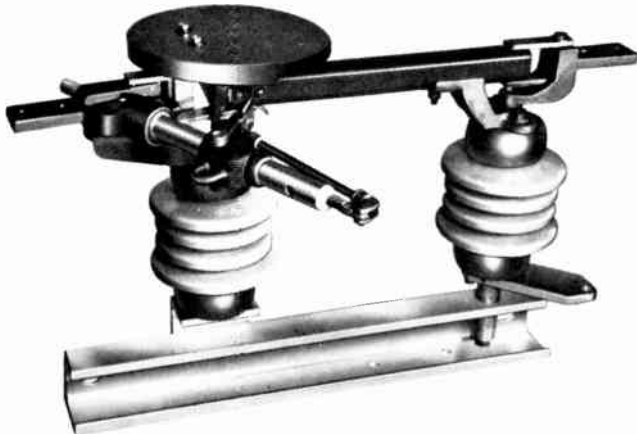
ACSR Tension Splice
28000 Series
29000 Series

Cable Size		Dead End						Jumper Terminal		Tension Splicers		
MCM	Strand	Aluminum Body		Comp. Branch	Steel Assembly			With Hardware	Without Hardware	Alum. Sleeve	Steel Sleeve	Loop Splicers
		Single Pad	Double Pad		Adj. Clevis	Non-Adj. Clevis	Oval Eye					
1/0	6 x 1	28100	28200	28300	29100	29200	29300	28600	W3A9	974 *	Inc.	Y1A9
2/0	6 x 1	28191	28201	28301	29101	29201	29301	28601	Z3A10	975 *	With	Z1A10
3/0	6 x 1	28102	28202	28302	29102	29202	29302	28602	14102	976 *	Alum.	866
4/0	6 x 1	28103	28203	28303	29103	29203	29303	28603	14103	977 *	Sleeve	867
266.8	18 x 1	28104	28204	28304	29105	29205	29305	28605	14105	28004	29005	869
266.8	26 x 7	28105	28205	28305	29106	29206	29306	28605	14105	28005	29006	869
336.4	18 x 1	28108	28208	28308	29108	29208	29308	28609	14109	28008	29008	872
330.4	26 x 7	28109	28209	28309	29111	29211	29311	28609	14109	28009	29011	872
336.4	30 x 7	28110	28210	28310	29113	29213	29313	28609	14109	28010	29013	872
397.5	18 x 1	28111X	28211X	28311	29110	29210	29310	28612X	14112X	28011	29010	874
397.5	36 x 1	28111X	28211X	28311	29108	29208	29308	28612X	14112X	28011	29008	874
397.5	26 x 7	28112X	28212X	28312	29112	29212	29312	28612X	14112X	28012	29012	874
477	18 x 1	28114X	28214X	28314	29116	29216	29316	28616X	14116X	28014	29016	876
477	24 x 7	28115X	28215X	28315	29117	29217	29317	28616X	14116X	28015	29017	876
477	26 x 7	28115X	28215X	28315	29118	29218	29318	28616X	14116X	28015	29018	876
477	30 x 7	28116X	28216X	28316	29120	29220	29320	28616X	14116X	28016	29020	876
556.5	18 x 1	28117X	28217X	28317	29122	29222	29322	28619X	14119X	28017	29022	879
556.5	24 x 7	28118X	28218X	28318	29124	29224	29324	28619X	14119X	28018	29024	879
556.5	26 x 7	28118X	28218X	28318	29124	29224	29324	28619X	14119X	28018	29024	879
636	18 x 1	28119X	28219X	28319	29122	29222	29322	28625X	14125X	28019	29022	883
636	36 x 1	28119X	28219X	28319	29121	29221	29321	28625X	14125X	28019	29021	883
636	24 x 7	28120X	28220X	28320	29124	29224	29324	28625X	14125X	28020	29024	883
636	26 x 7	28120X	28220X	28320	29125	29225	29325	28625X	14125X	28020	29025	883
636	30 x 19	28120X	28220X	28320	29147	29247	29347	28625X	14125X	28020	29047	883
636	54 x 7	28120X	28220X	28320	29123	29223	29323	28625X	14125X	28020	29023	883
666.6	24 x 7	28120X	28220X	28320	29124	29224	29324	28625X	14125X	28020	29024	883
666.6	54 x 7	28120X	28220X	28320	29124	29224	29324	28625X	14125X	28020	29024	883
715.5	54 x 7	28123X	28223X	28323	29133	29233	29333	28632X	14132X	28023	29033	892
715.5	26 x 7	28123X	28223X	28323	29134	29234	29334	28632X	14132X	28023	29034	892
715.5	30 x 19	28123X	28223X	28323	29135	29235	29335	28632X	14132X	28023	29035	892
795	36 x 1	28122X	28222X	28322	29128	29228	29328	28632X	14132X	28022	29028	892
795	24 x 7	28123X	28223X	28323	29133	29233	29333	28632X	14132X	28023	29033	892
795	45 x 7	28123X	28223X	28313	29130	29230	29330	28632X	14132X	28023	29030	892
795	48 x 7	28123X	28223X	28323	29132	29232	29332	28632X	14132X	28023	29032	892
795	54 x 7	28123X	28223X	28323	29133	29233	29333	28632X	14132X	28023	29033	892
795	26 x 7	28123X	28223X	28323	29134	29234	29334	28632X	14132X	28023	29034	892
795	30 x 19	28124X	28224X	28324	29136	29236	29336	28632X	14132X	28024	29036	892
874.5	24 x 7	28124X	28224X	28324	29134	29234	29334	28632X	14132X	28024	29034	892
874.5	54 x 7	28124X	28224X	28324	29134	29234	29334	28632X	14132X	28024	29034	892
900	54 x 7	28125X	28225X	28325	29134	29234	29334	28636X	14136X	28025	29034	897
954	36 x 1	28125X	28225X	28325	29129	29229	29329	28636X	14136X	28025	29029	897
954	24 x 7	28126X	28226X	28326	29134	29234	29334	28636X	14136X	28026	29034	897
954	45 x 7	28126X	28226X	28326	29127	29227	29327	28636X	14136X	28026	29027	897
954	48 x 7	28126X	28226X	28326	29133	29233	29333	28636X	14136X	28026	29033	897
954	54 x 7	28126X	28226X	28326	29134	29234	29334	28636X	14136X	28026	29034	897
1033.5	45 x 7	28127X	28227X	28327	29131	29231	29331	28636X	14136X	28027	29031	897
1033.5	48 x 7	28127X	28227X	28327	29133	29233	29333	28636X	14136X	28027	29033	897
1033.5	54 x 7	28127X	28227X	28327	29135	29235	29335	28636X	14136X	28027	29035	897
1113	45 x 7	28127X	28227X	28327	29131	29231	29331	28636X	14136X	28027	29031	897
1113	54 x 19	28127X	28227X	28327	29135	29235	29335	28636X	14136X	28027	29035	897
1192.5	45 x 7	28128X	28228X	28328	29137	29237	29337	28639X	14139X	28028	29037	900
1192.5	48 x 7	28128X	28228X	28328	29137	29237	29337	28639X	14139X	28028	29037	900
1192.5	54 x 19	28128X	28228X	28328	29140	29240	29340	28639X	14139X	28028	29040	900
1272	45 x 7	28128X	28228X	28328	29137	29237	29337	28639X	14139X	28028	29037	900
1272	54 x 19	28128X	28228X	28328	29141	29241	29341	28639X	14139X	28028	29041	900
1351.5	45 x 7	28128X	28228X	28328	29137	29237	29337	28639X	14139X	28028	29037	900
1351.5	48 x 7	28128X	28228X	28328	29138	29238	29338	28639X	14139X	28028	29038	900
1351.5	54 x 19	28128X	28228X	28328	29141	29241	29341	28639X	14139X	28028	29041	900
1431	45 x 7	28128X	28228X	28328	29137	29237	29337	28640X	14140X	28028	29037	901
1431	48 x 7	28128X	28228X	28328	29138	29238	29338	28640X	14140X	28028	29038	901
1431	54 x 19	28129X	28229X	28329	29141	29241	29341	28640X	14140X	28029	29041	901
1510.5	45 x 7	28130X	28230X	28330	29137	29237	29337	28641X	14141X	28030	29037	902
1510.5	48 x 7	28130X	28230X	28330	29139	29239	29339	28641X	14141X	28030	29039	902
1510.5	54 x 19	28130X	28230X	28330	29141	29241	29341	28641X	14141X	28030	29041	902
1590	45 x 7	28130X	28230X	28330	29139	29239	29339	28641X	14141X	28030	29039	902
1590	54 x 19	28131X	28231X	28331	29141	29241	29341	28641X	14141X	28031	29041	902
1780	84 x 19	28141X	28241X	28341	29143	29243	29343	28642X	14142X	28041	29043	905
2156	84 x 19	28142X	28242X	28342	29143	29243	29343	28643X	14143X	28042	29043	906
2167	72 x 7	28143X	28243X	28343	29144	29244	29344	28643X	14143X	28043	29044	906

Price on Application

CHANCE TYPE "D" DISTRIBUTION SWITCH

3-Pole, Single Throw, 600 AMP — 7.8, 15 and 27 KV



The Chance Type "D" Distribution Level Switch is the latest advance in applying the "Load Management" concept to distribution switching. The availability of the Saf-T-Gap expulsion type interrupter permits these gang-operated switches to change or to sectionalize circuits carrying currents up to 600 amperes to provide the maximum continuity of service to power users.

This sectionalizing switch is designed to interrupt load currents a maximum design recovery voltages, to interrupt transformer magnetizing currents, line charging currents and capacitor bank currents.

The Saf-T-Gap interrupter can be purchased as a part of the original switch or can be added later when the specific installation might require Load Management. Catalog numbers include the interrupter.

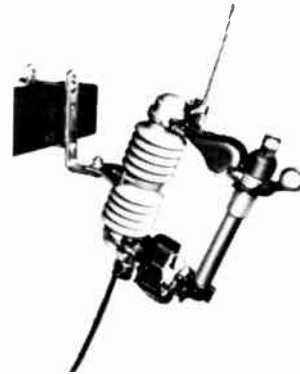
This side-break switch is available in 7.8, 15 and 27 KV ratings with a continuous current capacity of 600 amperes. The use of aluminum in the bases, controls and insulator fittings makes it a lightweight switch that is easy to install.

The switch is furnished complete with interphase, vertical control shafts, handle, lock plate, guide plate and 2 1/4-inch bolt circle Sky-Glaze post insulators. Standard NEMA 2-hole terminal pads come with the switch and without terminals or attachment hardware.

TYPE "D" SWITCHES WITH INTERRUPTERS

Interrupter Type	Type of Controls	Catalog Number	Each
7.8 KV			
STG-B9	Aluminum Controls	D6095L	\$405.00
STG-B9	Epoxiglas Controls	D6095LE	435.00
STG-B9	Alum. Controls & Crossarms	D6095LX	475.00
15 KV			
STG-B9	Aluminum Controls	D60110L	415.00
STG-B15	Aluminum Controls	D60110LH	470.00
STG-B9	Epoxiglas Controls	D60110LE	445.00
STG-B15	Epoxiglas Controls	D60110LHE	500.00
STG-B9	Alum. Controls & Crossarms	D60110LX	485.00
STG-B15	Alum. Controls & Crossarms	D60110LHX	540.00
27 KV			
STG-B15	Aluminum Controls	D60150L	490.00
STG-B15	Epoxiglas Controls	D60150LE	520.00
STG-B15	Alum. Controls & Crossarms	D60150LX	575.00

CHANCE TYPE F2 CUTOUTS



The modernized Chance F2 cutout features interchangeability of 100 and 200 amp fuseholders; this is an important factor in considering tomorrow's increasing loads. A single mounting used in each voltage rating takes either a 100 amp or 200 amp fuseholder, or a 300 amp disconnect blade.

The F2 employs a high speed link ejector, high pressure contacts and a small bore fuseholder with an expendable disc-type cap in the higher interrupting ratings. Fuseholders accept any standard make or type of universal fuse link and assure that the circuit will be cleared according to the time-current characteristics of the link.

Chance cutouts are available in a sky-blending blue-grey insulator, "Sky-Glaze," to help improve overhead line appearance. Research, testing and field-use have proven the consistency of the Chance F2 cutout design in meeting or exceeding all industry standards for interrupting performance.

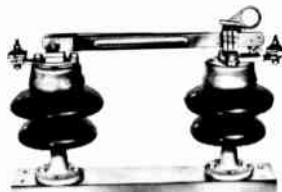
F2 OPEN-TYPE FUSE CUTOUTS

Cat. No.*	Voltage Rating KV	Current Rating Amperes	Interrupting Capacity Amperes	Shipping Wt. Lbs.	Each
Heavy-Duty (Solid Cap)					
F2H1078	7.8	100	5,000	21	\$23.00
F2H1015	15	100	4,000	24	27.00
Extra-Heavy Duty (Expendable Cap)					
F2X1078	7.8	100	10,000	21	23.00
F2X1015	15	100	8,000	24	27.00
F2X1027	27	100	6,000	28	30.00
Extra-Extra-Heavy Duty (Expendable Cap)					
F2XX1078	7.8	100	20,000	22 1/2	26.00
F2XX1015	15	100	16,000	25 1/2	32.00
F2XX1027	27	100	12,000	29	35.00
Normal Duty					
F2N2078	7.8	200	5,000	23	27.00
F2N2015	15	200	4,000	25	30.00
Extra-Extra-Heavy Duty (Expendable Cap)					
F2XX2078	7.8	200	20,000	23 1/2	30.00
F2XX2015	15	200	16,000	26	34.00
DISCONNECTING CUTOUTS					
Cat. No.*	Voltage Rating KV	Current Rating Amperes	Momentary Amps	Shipping Wt. Lbs.	Each
F2S3078	7.8	300	12,000	22	\$23.00
F2S3015	15	300	12,000	25	27.00
F2S3027	27	300	12,000	30	30.00

*All F2 cutouts are available with sky-blending "Sky-Glaze" insulators. To order add suffix "G" to the standard catalog number.

**CHANCE HOOKSTICK
DISCONNECTING SWITCHES**

Single-Pole, Single-Throw **TYPE BT**
400 — 600 — 1200 AMP — Full NEMA-Rated



Full substation and line applications where maximum mechanical and electrical reliability are required.

Rigid blade design and self-aligning contacts mean positive closing even when operated with heavy side thrusts.

Feature blade latching, pryout opening and centered contact pressure. Switches through 23 KV have high pressure silver-to-copper contacts; 34.5 KV has silver-to-silver contacts.

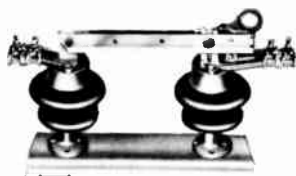
Channeled base furnished as standard; flanged base also available when specified.

Specify size and type of conductor on order.

KV	No.* Vertical Mounting	No.* Underhung Mounting	Approx. Shipping Wt. Lbs.	Each
400 AMP				
7.5	82000-2	82100-2	58	\$ 88.00
15	82006-2	82106-2	78	98.00
23	82012-2	82112-2	96	105.00
34.5	82024	82124	143	135.00
600 AMP				
7.5	82001-2	82101-2	58	88.00
15	82007-2	82107-2	78	98.00
23	82013-2	82113-2	96	105.00
34.5	82025	82125	147	135.00
1200 AMP				
7.5	82002-2	82102-3	63	155.00
15	82008-2	82108-2	83	165.00
23	82014-2	82114-2	101	175.00
34.5	82026	82126	156	210.00

*With standard NEMA cap and pin insulators. When specified, station post insulators will be furnished at no extra cost; add prefix "S" to catalog number.

TYPE BTL



200 Amp — NEMA — Insulated

An economical unit for light-load circuits where full NEMA insulation is required. Has "big switch" features for ease and reliability of operation. Rigid truss blade resists side thrusts; has 90° stop. Positive latch holds blade in closed position; opens with pryout action.

Multi-finger contacts are self-wiping; have phosphor bronze back-up springs. Galvanized flanged base has pull-off eyes for dead-ending direct to switch. General purpose terminals take No. 6 to 4/0 copper or No. 6 to 3/0 ACSR.

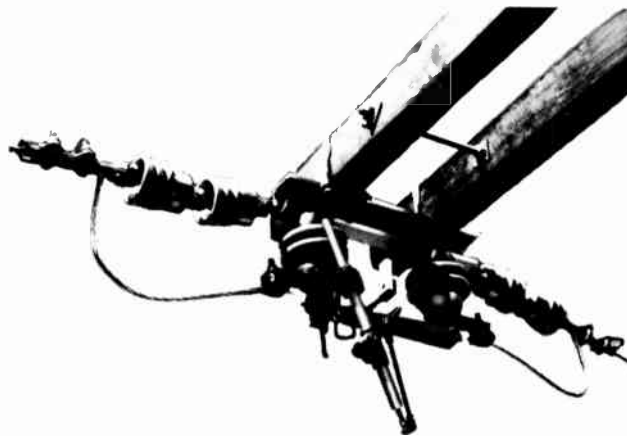
KV	No.* Vertical Mounting	No.* Underhung Mounting	Approx. Shipping Wt. Lbs.	Each
7.5	82270	82273	51	\$ 48.60
15	82271	82274	60	55.00
23	82272	82275	81	69.10

Crossarm hanger No. 92851 also available, \$2.00 each.

*With cap and pin insulators. When specified, station post insulators will be furnished at no extra cost; add prefix "S" to catalog number.

**CHANCE TYPE M2L
DISTRIBUTION HOOKSTICK SWITCH**

Single-Pole, Single Throw, 600 AMP — 7.8, 15, 27 KV



The Chance Type "M2L" hookstick switch, equipped with the Saf-T-Gap expulsion type interrupter, is a highly reliable, long-life method of changing or sectionalizing circuits carrying currents up to 600 amperes, and is available in 7.8, 15 and 27 KV ratings.

Its application is to interrupt load currents at the maximum design recovery voltage across the switch as well as interrupting transformer magnetizing and line charging currents.

The switch is equipped with a socket so that the Saf-T-Gap interrupter can be removed or installed with a hookstick. The M2L switch can be purchased without the interrupter and added later when the installation may require Load Management. Post insulators are 2¼-inch bolt circle and have a blending "Sky-Glaze" to give a clean appearance; and installed for either underhung or vertical mounting. Aluminum base and insulator fittings make the Type M2L a lightweight switch that is easy to install. Comes with Standard NEMA 2-hole terminal pads, and without terminals or attachment hardware.

M2L LOAD MANAGER SWITCHES

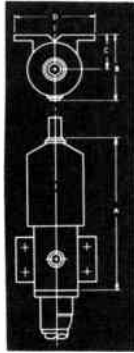
KV	Interrupter Type	Catalog Number	Each
7.8	STG-B9	M2L7860L	\$ 85.00
15	STG-B9	M2L1560L	87.00
	STG-B15	M2L1560H	107.00
27	STG-B15	M2L2760L	117.00

M2L DISCONNECT SWITCHES

KV	Interrupter Type	Catalog Number	Each
7.8	*	M2L7860	\$ 42.00
15	*	M2L1560	44.00
27	*	M2L2760	54.00

*Socket provision for future addition of Saf-T-Gap interrupters.

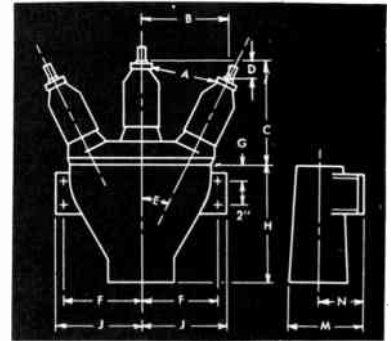
G & W POTHEADS



Single Conductor

CAPNUT POTHEADS

Capnut potheads are applicable to all solid type cable terminations, and are available for either single or multi-conductor, indoor or outdoor application. Interchangeable aerial lugs, hoodnut-connector assemblies, porcelain, bodies and cable entrance fittings may be assembled into various combinations to accommodate different type and size cables. Adequate safety levels are provided by establishing and maintaining safe creepage and clearance distances.



3-Conductor — Shape B

SINGLE CONDUCTOR BRACKET MOUNTED POTHEADS

15000 Volts

Max. Cond. Size AWG or MCM	Cat. No.		Cat. No.	
	Wiping Sleeve Entrance		Stuffing Box Entrance	
	Outdoor	Indoor	Outdoor	Indoor
1/0	UT17031W	UNT17031W	UT17031R	UNT17031R
250	UT17231W	UNT17231W	UT17231R	UNT17231R
500	UT17541W	UNT17541W	UT17541R	UNT17541R
750	T17741W	NT17741W	T17741R	NT17741R
1000	T17841W	NT17841W	T17841R	NT17841R

Specifications

Max. Cond. Size AWG or MCM	Max. Cable Dia. Insul.		Approximate Dimensions, Inches				Approx. Req'd. Gals.	Approx. Wt. Lbs.
	Cable O.D. In.	Insul. O.D. In.	A	B	C	D		
1/0	1 7/8	1 3/8	13 1/2	5 1/4	2 5/8	5 1/2	3/8	24
250	1 7/8	1 3/8	13 3/8	5 1/4	2 5/8	5 1/2	3/8	25
500	2 7/8	2 3/8	13 1/4	7 1/4	3 3/4	6 3/4	5/8	27
750	2 7/8	2 3/8	13 3/8	7 1/4	3 3/4	6 3/4	5/8	29
1000	2 7/8	2 3/8	13 3/8	7 1/4	3 3/4	6 3/4	5/8	34

Mounting Bracket Dimensions: 1/0 and 250 sizes — C/L to C/L bolt holes 4 3/8" width, 2" depth, 500, 750 and 1000 sizes — C/L to C/L bolt holes 5 1/2" width, 2" depth. Take 4 bolts 1/2" dia.

When Ordering Potheads Specify: single or three conductor pothead; shape; voltage rating and operating voltage; 1/c, 3/c or 3/1/c cable; cable conductor size; kind of insulation (paper, varnished cambric, rubber or polyethylene); shielded, unshielded or belted; lead sheath or neoprene jacket — diam.; style of aerial lugs; style of base seal (wiping sleeve or stuffing box); conduit or armor fitting (kind and size); and catalog number of pothead if available.

POTHEAD BODIES



Shape BK

Shape BU

Shape BW

Shape BL

AERIAL LUGS



Style 1 Solder Type

Style 3 Solder Type

Style 3D Clamp Type

Style 8 Bus Type

Style 18 Bus Type

Interchangeable aerial lugs for solder, clamp and bus connections. Style 3D lugs are normally furnished unless otherwise specified.

THREE CONDUCTOR BRACKET MOUNTED POTHEADS
Shape B — 15000 Volts

Max. Cond. Size AWG or MCM	Max. Cable Dia. Insul.		Cat. No.		Approx. Comp'd. Req. Gals.	Approx. Wt. Lbs.
	Cable O.D. In.	Insul. O.D. In.	Outdoor	Indoor		
	Small Body					
1/0	2 7/8	1 5/8	JT3704B	NT3704B	3	90
250	3 7/8	1 5/8	UT3725B	UNT3725B	3 1/2	100
500	3 7/8	1 5/8	JT3755B	NT3755B	3 1/2	95
750	3 7/8	1 5/8	JT3775B	NT3775B	3 1/2	105
1000	3 7/8	1 5/8	JT3785B	NT3785B	3 1/2	112

Large Body

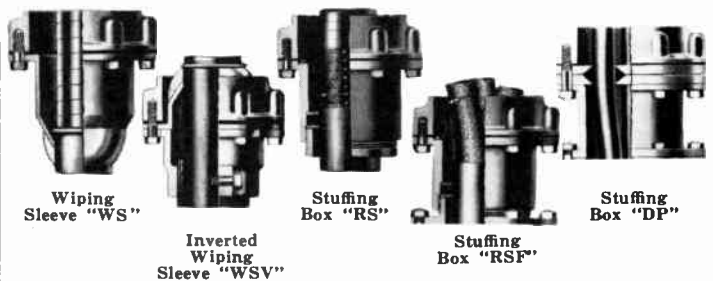
1/0	3 7/8	1 5/8	T3705B	UNT3705B	5 1/2	146
250	3 7/8	1 5/8	T3725B	XNT3725B	5 1/2	149
500	3 7/8	1 5/8	T3755B	UNT3755B	5 1/2	140
750	3 7/8	1 5/8	T3775B	UNT3775B	5 1/2	150
1000	3 7/8	1 5/8	T3785B	UNT3785B	5 1/2	157

Specifications

Max. Cond. Size AWG or MCM	SMALL BODY LID					SMALL BODY						
	Approximate Dimensions, Inches					Approximate Dimensions, Inches						
	A	B	C	D	E Deg.	F	G	H	J	M	N	
1/0	7 3/4	9 3/4	11 3/4	2 1/8	30	7 3/4	1 1/2	10	8 1/2	7	3 3/4	
250	7 3/4	9 3/4	11 3/4	2 1/8	30	7 3/4	1 1/2	11 1/2	8 1/2	7	3 3/4	
500	7 3/4	9 7/8	11 7/8	2 1/8	30	7 3/4	1 1/2	11 1/2	8 1/2	7	3 3/4	
750	7 7/8	9 7/8	11 7/8	2 1/8	30	7 3/4	1 1/2	11 1/2	8 1/2	7	3 3/4	
1000	7 7/8	9 7/8	12	2 1/8	30	7 3/4	1 1/2	11 1/2	8 1/2	7	3 3/4	

Max. Cond. Size AWG or MCM	LARGE BODY LID					LARGE BODY						
	Approximate Dimensions, Inches					Approximate Dimensions, Inches						
	A	B	C	D	E Deg.	F	G	H	J	M	N	
1/0	10 1/2	12 1/2	13 1/2	2 5/8	26	10 1/2	2	15	11 1/4	7 3/8	3 3/4	
250	10 1/2	12 1/2	13 5/8	2 5/8	26	10 1/2	2	15	11 1/4	7 3/8	3 3/4	
500	10 1/2	12 1/2	13 5/8	2 5/8	26	10 1/2	2	15	11 1/4	7 3/8	3 3/4	
750	10 1/2	12 1/2	13 3/4	2 5/8	26	10 1/2	2	15	11 1/4	7 3/8	3 3/4	
1000	10 1/2	12 5/8	13 3/4	2 5/8	26	10 1/2	2	15	11 1/4	7 3/8	3 3/4	

ENTRANCE FITTINGS



Wiping Sleeve "WS"

Inverted Wiping Sleeve "WSV"

Stuffing Box "RS"

Stuffing Box "RSF"

Stuffing Box "DP"

Interchangeable cable entrance fittings, conduit couplings, and armor clamps are available according to the individual requirements. There are two basic types of entrance fittings; a wiping sleeve or stuffing box. The wiping sleeve is used for a wiped joint to lead sheathed cables and the stuffing box is used for a compression seal to lead or non-lead sheathed cables.

Price on Application

GENERAL ELECTRIC TYPE HR AUTOMATIC CIRCUIT RECLOSERS

2,400-14,000 VOLTS (LINE-TO-LINE), 60 CYCLES—SINGLE- AND THREE-PHASE



These reclosers provide over-current protection for rural and suburban distribution systems. They are designed for dependable year-round co-ordination between reclosers in series; and between reclosers and sectionalizing fuses, branch fuses, and external or internal transformer fuses.

The rating of the recloser to be used is based primarily on normal load and maximum short-circuit current at the point of application.

The continuous current rating of the recloser should at least equal the normal load current. It is preferable to select a rating approximately 1/3 higher than the load current to allow for future load growth. Reclosers

have no overload rating and should not be applied beyond their continuous current rating.

Reclosers are available with different time-delay operating characteristics, providing a choice for "hold-closed" applications or for co-ordinating with reclosers of other manufacture.

LIGHTNING PROTECTION OF RECLOSERS

Protection is required to limit to safe values voltage surges caused by lightning. Requirements are similar to those for distribution transformers on the same system.

It is preferable to provide complete protection by installing arresters on both sides of a recloser. One additional arrester is an especially good investment whenever the recloser serves a sizeable number of consumers.

The arresters should be of the valve type which permits no sizeable 60-cycle follow-up current after a lightning surge. This will avoid unnecessary operations of the reclosers and needless blowing of fuses.

TABLE 1—TYPE HR RECLOSERS, 14,400 AND 23,000 VOLTS

Cont. Current Rating RMS Amp.	Interrupting Rating RMS Amp.	Pick-up Current RMS Amp. (Nominal)	Recloser Basic Cat. No.	Hold-closed Operation §	Each †	Approx. Wt in Lb. Incl. Oil		Approx. Oil Cap. (Gal.)	Cont. Current Rating RMS Amp.	Interrupting Rating RMS Amp.	Pick-up Current RMS Amp. (Nominal)	Recloser Basic Cat. No.	Hold-closed Operation §	Each †	Approx. Wt in Lb. Incl. Oil		Approx. Oil Cap. (Gal.)
						Net	Ship.								Net	Ship.	
Single-Phase, 50-Ampere Frame—14.4 Kv—95 Kv Bil																	
5	125	10	HR1-50-5	Specify sequence number 21HC (see Table 2)	\$175	90	105	4	25	1500	50	HR1-200-25	Not available	\$367	165	190	10
10	250	20	HR1-50-10						35	2100	70	HR1-200-35					
15	375	30	HR1-50-15						50	3000	100	HR1-200-50					
25	625	50	HR1-50-25						70	4000	140	HR1-200-70					
35	875	70	HR1-50-35						100	Δ4000	200	HR1-200-100					
50	1250	100	HR1-50-50						140	Δ4000	280	HR1-200-140					
									200	Δ4000	400	HR1-200-200					
									280	Δ4000	560	HR1-280-280					
Three-Phase, 50-Ampere Frame—14.4 Kv—95 Kv Bil																	
5	125	10	HR3-50-5	Not available	\$659	295	340	12	25	1500	50	HR3-200-25	Not available	\$1440	535	580	30
10	250	20	HR3-50-10						35	2100	70	HR3-200-35					
15	375	30	HR3-50-15						50	3000	100	HR3-200-50					
25	625	50	HR3-50-25						70	4000	140	HR3-200-70					
35	875	70	HR3-50-35						100	Δ4000	200	HR3-200-100					
50	1250	100	HR3-50-50						140	Δ4000	280	HR3-200-140					
									200	Δ4000	400	HR3-200-200					
									280	Δ4000	560	HR3-280-280					
Single-Phase, 100-Ampere Frame—14.4 Kv—110 Kv Bil																	
25	1000	50	HR4-100-25	Specify sequence number 21 HC (see Table 2)	\$229	105	125	6	10	400	20	HR1-100-10	Not available	\$355	190	210	13
35	1400	70	HR4-100-35						15	600	30	HR1-100-15					
50	2000	100	HR4-100-50						25	1000	50	HR1-100-25					
70	⊕2000	140	HR4-100-70						35	1400	70	HR1-100-35					
100	⊕2000	200	HR4-100-100						50	2000	100	HR1-100-50					
									70	2500	140	HR1-100-70					
									100	2500	200	HR1-100-100					
Three-Phase, 100-Ampere Frame—14.4 Kv—110 Kv Bil																	
25	1000	50	HR6-100-25	Not available	\$757	460	505	18	10	400	20	HR3-100-10	Not available	\$1215	610	655	39
35	1400	70	HR6-100-35						15	600	30	HR3-100-15					
50	2000	100	HR6-100-50						25	1000	50	HR3-100-25					
70	⊕2000	140	HR6-100-70						35	1400	70	HR3-100-35					
100	⊕2000	200	HR6-100-100						50	2000	100	HR3-100-50					
									70	2500	140	HR3-100-70					
									100	2500	200	HR3-100-100					

* Recloser Cat. No. does not include special mounting material; add from Table 3.
 † Single-shot Lockout may be added by adding the suffix "SS" to the catalog number and increasing the price \$6.60 net per phase for 14.4-kv, 50- and 100-ampere frame size and \$6.60 net per phase for 14.4-kv 200-ampere and all 23-kv frame sizes.
 § Example: to specify a Type HR recloser, 1-phase, 50 ampere frame,

35-ampere rating with "hold-closed" operation, the catalog number would be HR1-50-35-21HC.
 † In lieu of time delay, Single-phase only.
 ⊕ Maximum interrupting rating at 2400 and 4800 volts is 2800 amperes for 70-ampere continuous-current rating and 3000 amperes for 100-ampere rating.
 Δ Maximum interrupting rating at 2400 and 4800 volts is 6000 amperes.

TABLE 2—TRIPPING SEQUENCES

Sequence Number	Sequence Desired
13	One instantaneous and three time delay.
22	Two instantaneous and two time delay.
31	Three instantaneous and one time delay.
40	Four instantaneous and no time delay.
04	Four time delay.
21HC	Hold-closed operation.

‡ This sequence number is to be added to the basic recloser Cat. No. to designate the desired tripping sequence.

TABLE 3—MOUNTING MATERIAL

Recloser Type and Frame	Rating	Type of Mounting	Catalog Number	Each	Approx Wt, lbs	
					Net	Ship
Single-phase, 50 ampere	14.4 kv	Single Crossarm	976C330G9	\$3.00	9	12
		Double Crossarm	976C330G2	6.00	13	16
		Extended Pole 21" CL	976C330G7	9.50	28	35
		Extended Pole 31" CL	976C330G4	10.50	33	48
Three-phase, 50 ampere	14.4 kv	Extended Crossarm 21" CL	976C331G2	17.75	18	25
Single-phase, 100 ampere	14.4 kv	Double Crossarm	976C330G2	6.00	13	16
		Extended Pole 21" CL	976C330G7	9.50	28	35
		Extended Pole 31" CL	976C330G4	10.50	33	40
Three-phase, 100 ampere	14.4 kv	Extended Crossarm 21" CL	976C331G2	17.75	18	25
Single-phase, 200 ampere	23 kv	Double Crossarm	976C330G2	6.00	13	16
		Extended Pole 21" CL	976C330G8	9.50	28	35
		Extended Pole 31" CL	976C330G5	10.50	33	40
Three-phase, 200 ampere	23 kv	Extended Crossarm 21" CL	976C331G3	17.75	18	25
Single-phase, 100 ampere	23 kv	Double Crossarm	976C330G2	6.00	13	16
		Extended Pole 21" CL	976C330G8	9.50	28	35
		Extended Pole 31" CL	976C330G5	10.50	33	40
Three-phase, 100 ampere	23 kv	Extended Crossarm 21" CL	976C331G3	17.75	18	25

* Mounting provision included in Cat. No.: direct-to-pole for single-phase and direct-to-crossarm for three-phase.

The Above Items Are Priced Net

GENERAL ELECTRIC LIGHTNING ARRESTERS

THYRITE® MAGNE-VALVE DISTRIBUTION ARRESTERS



With disconnector

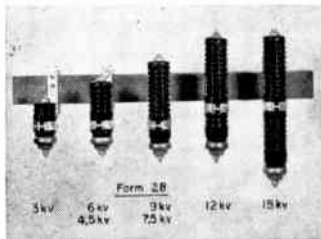


With external gap

For lightning and surge protection of distribution transformers, regulators, capacitors, cables, and other apparatus on distribution circuits. Magne-valve action limits voltage stresses to values far below the apparatus impulse-test levels, and prevents system short circuits or outages as the result of lightning discharges. They are available with either a ground-lead disconnect or an external gap for positive-line lockout protection. Both types come with standard EE1-NEMA mounting bracket.

Arrester Rating (Kv)	With Disconnecter		With External Gap	
	Model No.	Each	Model No.	Each
3	9LA22A21	\$10.50	9LA21B21	\$11.00
6	9LA22A11	12.50	9LA21B41	13.00
9	9LA22A51	14.50	9LA21B51	15.50
10	9LA22A61	15.00	9LA21B61	16.00
12	9LA22A71	19.00	9LA21B71	20.00
15	9LA22A81	23.00	9LA21B81	24.00
18	9LA22A91	28.00	9LA21B91	30.00
20	9LA22A01	32.00	9LA21B01	34.00

FORM 28 THYRITE® MAGNE-VALVE DISTRIBUTION-CLASS ARRESTERS



These Form 28 arresters provide the most economical protection for dry-type transformers and small a-c motors and generators. The Form 28 is a directly connected unit, normally furnished with a ground-lead disconnecter. When protecting small a-c rotating machinery, protection capacitors of suitable voltage ratings should also be used. EE1-NEMA brackets are furnished.

Arrester Rating (Kv)	Model No.	Each
3	9L28AFJ101	\$12.65
4.5	9L28AFJ601	18.70
6	9L28AFJ201	18.70
7.5	9L28AFJ701	22.55
9	9L28AFJ301	22.55
10	9L28AFJ801	25.00
12	9L28AFJ401	30.25
15	9L28AFJ501	38.50
18	9L28AHJ101	46.75
20	9L28AHJ201	52.25

MAGNE-VALVE ARRESTERS WITH DURABUTE® OPEN CUTOUTS



Combination units are available with arrester mounted horizontally, for mounting on crossarms with three-phase circuits where space is at a premium, or with arrester mounted vertically, for either crossarm or direct-to-pole installation.

Cutout Rating		Cap	Arrester Rating Kv	Model No.		Each
Volt Kv	Inter Amp			Arrester Vertically Mounted	Arrester Horizontally Mounted	
7.8	5,000	Solid	9	9F81AAA155	9F80AAA180	\$34.75
7.8	5,000	Solid	10	9F81ABA155	9F80ABA180	34.75
7.8	10,000	Expend	9	9F81AAM155	9F80AAM180	34.75
7.8	10,000	Expend	10	9F81ABM155	9F80ABM180	34.75
7.8	10,000	Solid	9	9F81AAB155	9F80AAB180	37.50
7.8	10,000	Solid	10	9F81ABB155	9F80ABB180	37.50
7.8	20,000	Expend	9	9F81AAC155	9F80AAC180	37.50
7.8	20,000	Expend	10	9F81ABC155	9F80ABC180	37.50

Note: Combination units also available with cutouts rated 15 kv, 4,000 to 16,000 amp, with arresters rated from 9 to 18 kv. Contact your G-E Supplier.

MAGNE-VALVE ARRESTERS WITH PORCELAIN OPEN CUTOUTS

Combinations listed below are with arrester horizontally mounted for crossarm mounting. Units with vertically mounted arresters for either crossarm or direct-to-pole mounting are available. Contact your G-E Supplier for details.

Cutout Rating		Cap	Arrester Rating Kv	Model No.		Each
Volt Kv	Inter Amp			Externally Gapped	Directly Connected	
7.8/13.5Y	5,000	Solid	9	9F74BAB126	9F75BAB126	\$32.00
7.8/13.5Y	5,000	Solid	10	9F74BBB126	9F75BBB126	33.00
7.8/13.5Y	10,000	Exp	9	9F74BAG126	9F75BAG126	32.00
7.8/13.5Y	10,000	Exp	10	9F74BBG126	9F75BBG126	32.00
15/26Y	4,000	Solid	9	9F74BAC126	9F75BAC126	36.00
15/26Y	4,000	Solid	10	9F74BBC126	9F75BBC126	36.00
15/26Y	4,000	Solid	12	9F74BGC126	9F75BGC126	42.50
15/26Y	4,000	Solid	15	9F74BHC126	9F75BHC126	45.00
15/26Y	8,000	Exp	9	9F74BAH126	9F75BAH126	36.00
15/26Y	8,000	Exp	10	9F74BBH126	9F75BBH126	36.00

MAGNE-VALVE ARRESTERS WITH FLIP-OPEN FUSES

These combination units are for transformer mounting. They are specifically designed for low-cost overvoltage and overcurrent protection on rural distribution systems.

Circuit Voltage	Arrester Rating Kv	Model No.	Each *	Type of Mounting Bracket Included
7200/12470GrdY	9	9FLA8AD248	\$20.00	For tank stud † or unused hanger bracket
7620/13200GrdY	10	9FLA8AD348	20.00	
7200/12470GrdY	9	9FLA8AD242	20.00	For flange-type covers
7620/13200GrdY	10	9FLA8AD342	20.00	
7200/12470GrdY	9	9FLA8AD244	20.00	For welding to tank
7620/13200GrdY	10	9FLA8AD344	20.00	
14400/24940GrdY	18	9FLA8AD444	35.00	For welding to tank
14400/24940GrdY	18	9FLA8AD445	35.00		For unused hanger bracket

*Fuse not included in price. †Bolts for clamping arrester to transformer are not furnished.

SECONDARY ARRESTERS



Thyrite® and pellet secondary arresters are for the protection of farm, residential, and low-voltage industrial electrical systems, and they safeguard equipment against damage by lightning.

All secondary arresters are low in initial cost, and feature sealed-unit construction for long life.



FOR INDOOR OR OUTDOOR SERVICE

Circuit Voltage Rating Rms	Max Permissible Line-to-ground Voltage Rms	Model No.	Each
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THYRITE: For Mounting to Knockout Hole

0-650	650	9LA15B11	\$16.00
0-650	650	9LA15B12	22.00
0-650	650	9LA15B13	32.00

THYRITE: For Bracket Mounting to Pole, Wall or Crossarm

0-650	650	9LA15B21	\$18.00
0-650	650	9LA15B22	24.00
0-650	650	9LA15B23	34.00

PELLET: For Bracket Mounting to Pole, Wall or Crossarm

0-650	650	9LA15A7	\$12.00
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HOME LIGHTNING PROTECTOR



The Home Lightning Protector is designed to prevent lightning surges entering through the wiring from damaging electrical equipment and appliances. It is a sturdy, weatherproof, service-proven device that can be installed at either the weatherhead or service-entrance box.

UL Listed

Circuit Rating Volts	Protector Mnx Permissible Line-to-ground Voltage Rms	Model No.	Each
120/240 Ground Neutral	175	9L15CCB007	\$10.00

The Above Items Are Priced Net

GENERAL ELECTRIC CUTOUTS

ENCLOSED FUSE CUTOUTS



These enclosed cutouts are for over-current protection and switching of primary power systems where porcelain enclosure of live parts is desirable. Doors of same current and voltage rating are interchangeable. The 100-amp ratings can be optionally equipped for full-load break ability by addition of gas-filled cylinder. Cylinders are available in package of six at \$6.00 list. Order Model No. 482B938G1.

Operating Function	Current Rating Amperes 100% Basis	Current Interrupting Rating Rms Amperes at 60 Cycles	Model No.*	Each
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50 AMPERES—5.2-KV MAXIMUM

Indicating or Dropout—Normal Duty (Field Convertible)	50	2000 @ 5.2 kv 3000 @ 2.6 kv	9F6D11	\$15.00
Indicating Only—Heavy Duty	50	5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DH11	15.00
Dropout Only—Heavy Duty	50	5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DG11	15.00
Disconnect	100	.....	9F6DB11	15.00

50 AMPERES—7.8-KV MAXIMUM

Indicating or Dropout—Normal Duty (Field Convertible)	50	2000	9F6D21	\$16.00
Indicating Only—Heavy Duty	50	4000 @ 7.8 kv 5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DH21	16.00
Dropout Only—Heavy Duty	50	4000 @ 7.8 kv 5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DG21	16.00
Disconnect	100	.....	9F6DB21	16.00

100 AND 200 AMPERES—5.2-KV MAXIMUM

Indicating or Dropout—Heavy Duty (Field Convertible)	100	5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DF31 9F6DF51†	\$16.50 17.25
Indicating Only—Heavy Duty	100	5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DH31 9F6DH51†	16.50 17.25
Dropout Only—Heavy Duty	100	5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DG31 9F6DG51†	16.50 17.25
Disconnect	200	.....	9F6DB31 9F6DB51†	16.50 17.25

100 AMPERES—7.8-KV MAXIMUM

Indicating or Dropout—Heavy Duty (Field Convertible)	100	4000 @ 7.8 kv 5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DF41 9F6DF61†	\$17.75 18.50
Indicating Only—Heavy Duty	100	4000 @ 7.8 kv 5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DH41 9F6DH61†	17.75 18.50
Dropout Only—Heavy Duty	100	4000 @ 7.8 kv 5000 @ 5.2 kv 8000 @ 2.6 kv	9F6DG41 9F6DG61†	17.75 18.50
Disconnect	200	.....	9F6DB41 9F6DB61†	17.75 18.50

* Includes EE1-NEMA Standard mounting bracket.
† The use of these 100-amp cutouts as load-break devices is optional.

HEAVY-DUTY ENCLOSED FUSE CUTOUTS



These indicating fuse cutouts are particularly applicable for use on banks of transformers that feed industrial plants, or for sectionalizing heavy feeders. They can be converted to 600-amp disconnect cutouts by replacing the fuseholder door with a disconnect door.

Max Volts, Kv	Current Rating, Amp	Current Interrupting Rating	Model No.	Each
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Fuse Cutout with Fuse Holder and Hanger

5.2	200	{10,000 @ 5.2 Kv 14,000 @ 2.5 Kv}	9F16C76	\$42.00
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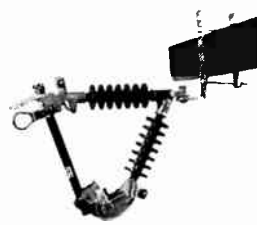
Cutout with Disconnect Blade Instead of Fuse Holder

5.2	600	9F16CB76	\$42.00
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Supply-part Doors

	Cat. No.	Each
Door, complete with fuse holder	79X307	\$25.00
Door, complete with 600-amp disconnect blade	79X311	25.00

DURABUTE® OPEN DROPOUT FUSE CUTOUTS



Durabute open dropout cutouts represent a major advance, and are notable for their unique triangular design and utilization of two Hy-Bute/60® insulators molded on a glass-fiber epoxy core. They eliminate porcelain breakage, provide 40% lighter weight, 40% improved strike and creep, nontracking insulators, and 95% less leakage current under wet contamination.

Current Rating, Amp	Current Interrupting Rating	Description	Model No.	Each
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7.8/13.5Y KV MAX VOLTAGE RATING

100	5,000	Solid cap	9F34ABA161	\$23.00
100	10,000	Expendable cap	9F34ABM161	23.00
100	10,000	Solid cap	9F34ABB109	26.00
100	20,000	Expendable cap	9F34ABC109	26.00
200	12,000	Solid cap	9F34ABB209	34.00
200	24,000	Expendable cap	9F34ABC209	34.00
300	....	Blade disconnect	9F34ABD361	23.00

15/26Y KV MAX VOLTAGE RATING*

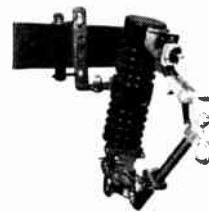
100	4,000	Solid cap	9F34ACA128	\$27.00
100	8,000	Expendable cap	9F34ACM128	27.00
100	8,000	Solid cap	9F34ACB109	32.00
100	16,000	Expendable cap	9F34ACC109	32.00
200	10,000	Solid cap	9F34ACB209	37.00
200	20,000	Expendable cap	9F34ACC209	37.00
300	....	Blade disconnect	9F34ACD361	27.00

27 KV MAX VOLTAGE RATING

100	3,000	Solid cap	9F34AEA109	\$30.00
100	6,000	Expendable cap	9F34AEM109	30.00
300	....	Blade disconnect	9F34AED361	30.00

*At 200 amp, max voltage rating is 15 kv.

PORCELAIN OPEN DROPOUT FUSE CUTOUTS



For overcurrent protection and switching on higher voltage primary distribution systems where exposure of live parts is not objectionable. The hinged fuse holder drops 180 degrees for positive indication of a blown fuse, and to provide maximum electrical clearance between contacts.

Current Rating, Amp	Current Interrupting Rating	Description	Model No.	Each
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7.8/13.5Y KV MAX VOLTAGE RATING

100	5,000	Heavy-duty	9F3K71	\$19.95
100	5,000	Heavy-duty, mech load break	9F3KC71	21.45
300	....	Blade	9F3KB71	19.95
100	10,000	Extra-heavy-duty	9F3K91	21.95
100	10,000	Extra-heavy-duty, mech load break	9F3KC91	23.45

15/26Y KV MAX VOLTAGE RATING

100	4,000	Heavy-duty	9F3K81	\$24.95
100	4,000	Heavy-duty, mech load break	9F3KC81	26.45
300	....	Blade	9F3KB81	24.95
100	8,000	Extra-heavy-duty	9F3K11	26.95
100	8,000	Extra-heavy-duty, mech load break	9F3KC11	28.45
100	10,000	Ultra-extra-heavy-duty	9F3KX17	28.00
100	10,000	Ultra-extra-heavy-duty, mech load break	9F3KX19	29.50

The Above Items Are Priced Net

GENERAL ELECTRIC CUTOUTS

OIL CUTOUTS



For rack mounting



For metal-enclosed assemblies

G-E oil cutouts (fused switches) provide positive, yet economical, over-current protection and load-break operation in distribution systems. They can be installed in buildings, in manholes, on poles, on unit substations.

Vented cutouts are used in all areas not requiring watertight or explosion-proof equipment.

Sealed cutouts are used only for applications where complete submersion in water is possible or in hazardous areas. They are furnished with expansion chamber, petrolatum, and cable terminations for rubber- or lead-covered cable.

Cutout Rating			Model No.	Each, Including Oil
Volts	Amp	Interrupting Cap. Rms Amp		
Vented Cutouts for Rack or Separate Mounting				
5200	100	5000	9F32FAA103	\$100.00
5200	200	10000	9F32FAA203	155.00
5200	200	10000	9F32FAF202	165.00
5200	200	10000	9F32GAA201	340.00
5200	300	10000	9F32FAA301	230.00
7800	100	5000	9F32FAA402	190.00
7800	200	5000	9F32FAA501	225.00
15000	100	4000	9F32FAA701	200.00
15000	200	7000	9F32GAA801	450.00

Vented Cutouts for Metal-Enclosed Assemblies				
Volts	Amp	Interrupting Cap. Rms Amp	Model No.	Each, Including Oil
5200	100	5000	9F32FCA104	\$120.00
5200	200	10000	9F32FCA207	175.00
5200	200	10000	9F32FCE201	185.00
5200	300	10000	9F32FCA301	255.00
7800	100	5000	9F32FCA402	210.00
7800	200	5000	9F32FCA501	240.00
15000	100	4000	9F32FCA701	220.00
15000	200	7000	9F32GCA801	470.00

Sealed Cutouts for Rack or Separate Mounting				
Volts	Amp	Interrupting Cap. Rms Amp	Model No.	Each, Including Oil
5200	100	5000	9F32FBB103	\$120.00
5200	100	5000	9F32FBC102	130.00
5200	200	10000	9F32FBB205	165.00
5200	200	10000	9F32FBC202	185.00
5200	300	10000	9F32FBB301	280.00
7800	100	5000	9F32FBB402	200.00
7800	200	5000	9F32FBB501	280.00
15000	100	4000	9F32FBB701	220.00
15000	100	4000	9F32FBC701	220.00
15000	200	7000	9F32GBC801	490.00
15000	200	7000	9F32GBC801	490.00

Sealed Cutouts for Metal-Enclosed Assemblies With Flexible Leads				
Volts	Amp	Interrupting Cap. Rms Amp	Model No.	Each, Including Oil
5200	100	5000	9F32FDA102	\$130.00
5200	200	10000	9F32FDA203	180.00
15000	200	7000	9F32GDA801	490.00

With Wiping Sleeves				
Volts	Amp	Interrupting Cap. Rms Amp	Model No.	Each, Including Oil
5200	100	5000	9F32FDB103	\$140.00
5200	200	10000	9F32FDB202	200.00

With Entrance-Terminal Rubber-Covered Cable				
Volts	Amp	Interrupting Cap. Rms Amp	Model No.	Each, Including Oil
5200	100	5000	9F32FDC102	\$140.00
5200	200	10000	9F32FDC201	200.00

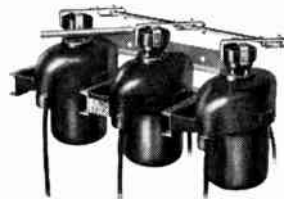
FUSE LINKS

For use in oil cutouts, 100 to 300 amperes, Models 9F2D-, E-, F- and G-series and 9F32 F and G series.

Capacity in Amp 100% Rating	Fuse Link Model Number	Each		Capacity in Amp 100% Rating	Fuse Link Model Number	Each	
		Lots of 10†	Broken Lots			Lots of 10†	Broken Lots
6	9F57CAA006	\$1.75	\$3.00	65	9F57CAA065	\$1.95	\$3.50
10	9F57CAA010			75	9F57CAA075		
15	9F57CAA015			100	9F57CAA100		
20	9F57CAA020			125	9F57CAA125		
25	9F57CAA025	\$2.25	\$3.75	140	9F57CAA140	\$2.95	\$4.00
30	9F57CAA030			150	9F57CAA150		
40	9F57CAA040			200	9F57CAA200		
50	9F57CAA050			250	9F57BAA250		
				300	9F57BAA300		

† Standard carton is 10 links.

WALL-MOUNTED RACKS AND GANG-OPERATING MECHANISMS



For simultaneously opening or closing a group of two or three oil cutouts. The rack forms a convenient and rigid support.

Rating		Arrangement	Single-phase (2 units)		Three-phase (3 units)	
Volts	Amp		Cat. No.	Each	Cat. No.	Each
For Vented Cutouts						
5200	100	Short way	9F31RAR101	\$18.00	9F31RBR101	\$20.00
5200	200	Short way	9F31RAR201	26.00	9F31RBR201	32.00
5200	300	Short way	9F31RAR301	31.00	9F31RBR301	40.00
7800	100	Short way				
7800	200	Short way				
15000	100	Short way				
15000	200	Short way				

For Sealed Cutouts						
Volts	Amp	Interrupting Capacity Rms Amp	Model No.	Each	Model No.	Each
5200	100	5000	9F31RDR101	\$27.00	9F31RER101	\$30.00
5200	100	5000	9F31RDR111	20.00	9F31RER111	23.00
5200	200	10000	9F31RDR201	30.00	9F31RER201	35.00
5200	200	10000	9F31RDR211	23.00	9F31RER211	27.00
5200	300	10000	9F31RDR301	30.00	9F31RER301	35.00
7800	100	5000				
7800	200	5000				
15000	100	4000				
15000	200	7000				

METAL-ENCLOSED ASSEMBLIES

The following units include vented cutouts with gang-operating mechanism, flexible loads and weathertight housing. Fuse links must be ordered separately.

Rating of Oil Cutouts			Single-phase		Three-phase	
Volts	Amp	Interrupting Capacity Rms Amp	Model No.	Each	Model No.	Each
5200	100	5000	9F31AAA101	\$350	9F31ABA101	\$470
5200	200	10000	9F31AAA201	460	9F31ABA201	590
5200	300	10000	9F31AAA301	720	9F31ABA301	930
7800	100	5000	9F31AAA402	600	9F31ABA402	750
7800	200	5000	9F31AAA501	720	9F31ABA501	930
15000	100	4000	9F31AAA701	680	9F31ABA701	890
15000	200	7000	9F31AAA801	1100	9F31ABA801	1650

The following sealed assemblies include sealed cutouts with gang-operating mechanism and watertight housing. Fuse links must be ordered separately. Free-standing assemblies are also available. Refer to your G-E Supplier.

Rating of Oil Cutouts			Single-phase		Three-phase	
Volts	Amp	Interrupting Capacity Rms Amp	Model No.	Each	Model No.	Each
5200	100	5000	9F31NDA100	\$440	9F31NEA100	\$600
5200	200	10000	9F31NDA200	580	9F31NEA200	770
5200	300	10000	9F31NDA300	740	9F31NEA300	1100
7800	100	5000	9F31NDA400	650	9F31NEA400	850
7800	200	5000	9F31NDA500	800	9F31NEA500	1060
15000	100	4000	9F31NDA700	870	9F31NEA700	1100
15000	200	7000	9F31NDA800	1300	9F31NEA800	1700

FUSED OIL INTERRUPTER SWITCHES



For indoor or outdoor use where economical load break and high interrupting capabilities are required. Oil cutouts in series with EJO-1 current-limiting power fuses provide economical fuse changeout for high-resistance secondary faults.

Typical applications are hospitals, industrials, schools, shopping centers, and high-rise buildings.

Rating of Oil Contents		Model No.	Each
Volts	Amp		
5200	100	9F31WBA100	\$1350
5200	200	9F31WBA200	1650
7800	200	9F31WBA500	1940
15000	200	9F31WBA800	1990

Note: EJO-1 current-limiting power fuses not included; order separately.

The Above Items Are Priced Net

**GENERAL ELECTRIC
DURABUTE® LOADBREAKER**



The new Durabute Loadbreaker provides the ideal means of breaking load current where and when it is required. It does not break the fuse link, does not require a special switchstick to make it operate; all that is required is a standard switchstick inserted in the fuse-holder eye ring and the standard opening downward pull. The loadbreaker is rated 15 kv, 200 amp for 200 operations. The arc chute is Delrin acetal resin, and the unit is a standard sky-gray color.

Current Rating, Amp	Current Interrupting Rating	Description	Model No.	Each
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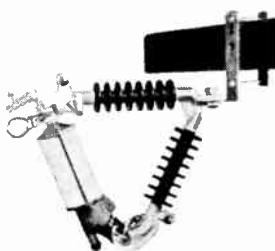
7.8/13.5Y KV MAX VOLTAGE RATING

100	5,000	Solid cap	9F34ABR161	\$30.00
100	10,000	Expendable cap	9F34ABS161	30.00
100	10,000	Solid cap	9F34ABT109	33.00
100	20,000	Expendable cap	9F34ABU128	33.00
200	.....	Blade disconnect	9F34ABV361	30.00
200	12,000	Solid cap	9F34ABT209	41.00
200	24,000	Expendable cap	9F34ABU228	41.00

15/26Y KV MAX VOLTAGE RATING

100	4,000	Solid cap	9F34ACR128	\$34.00
100	8,000	Expendable cap	9F34ACS128	34.00
100	8,000	Solid cap	9F34ACT109	39.00
100	16,000	Expendable cap	9F34ACU128	39.00
200	.....	Blade disconnect	9F34ACV361	34.00
200	10,000	Solid cap	9F34ACT209	44.00
200	20,000	Expendable cap	9F34ACU228	44.00

**GENERAL ELECTRIC
DURABUTE® SECTIONALIZER**



The new Durabute Sectionalizer is a unique product that utilizes the design of the Durabute cutout frame to hold the "oil-free" sectionalizer. It is a self-contained solenoid coil with a device to count recloser operations, and a dropout trip mechanism. The unit performs the basic sectionalizer function of opening a faulted lateral, preventing loss of a complete feeder.

Max Design Voltage	Cont. Coil Rating Amp	Coil Pick-up Amp	Momentary and Making Current Amp	1-sec Rating Amp	10-sec Rating Amp	Cat. No. (3 Count)	Each
27 Kv	10	16	1,600	400	125	9F41ACA101	\$115.00
	15	24	2,400	600	190	9F41ACB101	115.00
	25	40	4,000	1,000	325	9F41ACC101	115.00
	35	56	6,000	1,500	600	9F41ACD101	115.00
	50	80	7,000	2,000	1,000	9F41ACE101	115.00
	70	112	8,000	3,000	1,400	9F41ACF101	115.00
	100	160	10,000	5,000	2,000	9F41ACG101	115.00
	140	225	13,000	6,000	2,500	9F41ACH101	115.00
	200	320	15,000	6,500	3,000	9F41ACJ101	115.00

The Above Items Are Priced Net

GENERAL ELECTRIC SERVICE PEDESTALS

For Underground Residential Distribution Systems

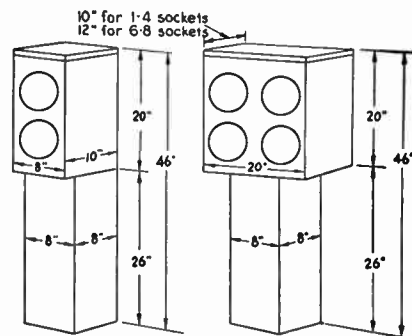
METERING PEDESTALS

Pedestal enclosure includes meter sockets bussed to main lugs, with an insulated groundable neutral. Wired safety-glass window over each meter, with tamperproof screws and padlocking attachment.

No. of Sockets	Catalog Number	List Each
100-amp Sockets #6-350 MCM Cu-Al		
1	DAMP1CP	\$80
2	DAMP2CP	90
3	DAMP3CP	160
4	DAMP4CP	170

No. of Sockets	Catalog Number	List Each
200-amp Sockets 250-600 MCM Cu-Al		
1	DAMP1CP2	\$110
2	DAMP2CP2	150
3	DAMP3CP2	250
4	DAMP4CP2	290

5th jaw for meter sockets, add \$1.10 list per socket.

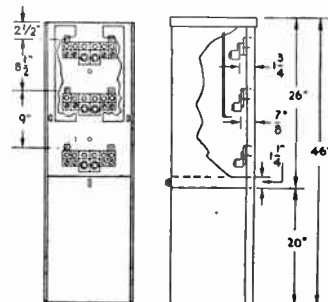


UTILITY PEDESTALS

#14-gage steel enclosure and cover, attached with tamperproof screws and padlocking attachment. Combined power and telephone pedestals are mounted back-to-back on a common post. Power-pedestal terminal boards are shipped installed in the pedestal if specified.

W x D x H (In.)	Cat. No.	List Each
Power Pedestals		
6 x 6 x 46	DAPP66P	\$22
8 x 8 x 46	DAPP88P	32
10 5/8 x 10 5/8 x 46	DAPP1010P	56
12 x 12 x 46	DAPP1212P	66

W x D x H (In.)	Cat. No.	List Each
Telephone Pedestals		
6 x 6 x 42	DATP66P	\$20
8 x 8 x 42	DATP88P	30



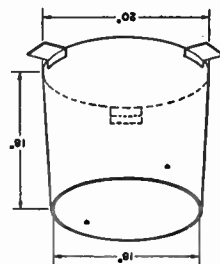
Terminal boards with insulated neutral, insulating back plate, two #6-350 MCM Cu-Al main lugs, four #14-2/0 Cu-Al branch lugs for 3-wire service, and insulating cover: Cat. No. DAPT4N, \$29 list each.

GROUND-LEVEL PEDESTALS

#16-gage bitumen-coated high-strength steel, and 1/8-inch cover plate with green primer coat: Cat. No. DAUP-1818, \$36 list each.

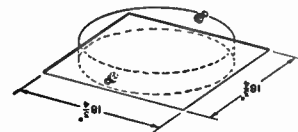
Floating Terminals

Two #6-250 MCM main cables and four #6-2/0 branch cables. Order three for 3-wire service or four for 4-wire service.



Cat. No.	Block Type	List Each
DAPT4A	Aluminum	\$10
DAPT4B	Brass	14

Sleeve for floating terminals: Cat. No. DAPTS4, \$1.30 list each.



PEDESTAL ACCESSORIES

Pedestal Posts (Order Separately)

Length (In.)	Cat. No.	List Each
60	DAPP60	\$13
72	DAPP72	14
80	DAPP80	15
90	DAPP92	16

Post Driving Caps: for sledge-hammer driving, Cat. No. NPSC \$60 list each; for pneumatic-hammer driving, Cat. No. PPHC \$55 list each. Screwdriver for tamperproof screws: Cat. No. 113A5198, \$2.60 list each.

The Above Items Are Subject to 50% Discount

CHANCE UNDERGROUND PEDESTALS

FIBERGLASS FLUSH-MOUNTED UNITS



This fiberglass pedestal can be installed in a number of different ways to provide a waterproof connection housing for electrical, telephone or CATV underground systems. The strong fiberglass shell makes a neat appearing, completely safe, long life installation that will not rust, and is resistant to the effects of lawn sprinkling, fertilizers, and vehicles. The green color blends with the landscape and is completely impregnated through the outer shell.

The two-piece construction of the basic flush-mounted unit provides a watertight design working on the same principle as a drinking glass immersed upside down in water. The lighter weight polyethylene inner bell is mechanically attached to the lid so that it can be easily removed for access to the service connections.

A similar unit consisting only of the lid and outer shell is also available.

Cat. No.	Description	Wt. Lbs.	Each
CF600	Outer Shell, Inner Bell & Lid	24	\$18.95
CF601	Outer Shell & Lid	22	15.45

CONNECTOR BLOCKS & COVERS



These 6-hole connector blocks can be installed using either an adjustable wrench or 1/2" hex socket wrench. The plastisol cover provides insulation between the blocks within the pedestal.

Cat. No.	Description	Conductor Range	Each
938	Al. Block	#2 to 366.4 MCM	\$ 3.00
941	Cu. Block	#2 to 350 MCM	5.15
939	Connector Cover		1.10
942	Al. Connector Package*	#2 to 366.4 MCM	11.95
943	Cu. Connector Package*	#2 to 350 MCM	18.40

*Includes 3 connector blocks, 2 insulated covers and 4 oz. tube of z.l.n. 100.

FIBERGLASS UPRIGHT MOUNTED UNITS



CF501



CF502



CF500

These fiberglass pedestals are designed for use where above ground installations are practical. The units can be supported by galvanized or stainless steel stakes or by a fiberglass anchoring device which is mounted at right angles to the back plate. The back plate is shaped so that the pedestal can be mounted at the base of a pole to provide a splicing box when taking more than one underground service from overhead lines.

The inside dimensions of the pedestal are 8" x 8".

Three different mounting heights are available for electrical, telephone or CATV installations.

Cat. No.	Description	Wt. Lbs.	Each
CF500	Low Profile, 32" Long	15 1/2	\$14.40
CF501	44" Long	19 1/2	19.40
CF502	Low Profile with 44" Back Plate	17	15.90

OTHER PEDESTAL ACCESSORIES

These accessories for Chance Fiberglass Pedestals provide a number of mounting options.

For Flush Mounted Pedestals

Cat. No.	Description	Each
SP12561-2	Three Screw Anchors	\$ 5.55
937	Three Mounting Straps	2.65

For Upright Pedestals

S48	48" Stainless Stake	9.00
S60	60" Stainless Stake	10.50
S72	72" Stainless Stake	12.00
S84	84" Stainless Stake	13.50
G48	48" Galvanized Stake	2.45
G60	60" Galvanized Stake	3.00
G72	72" Galvanized Stake	3.25
G84	84" Galvanized Stake	3.70

With Cross Plate

SPG42	42" Galvanized Stake	3.10
CF550	Fiberglass Anchor Device	3.00

**COOK ELECTRIC BURIED PLANT
TERMINAL HOUSING**

TYPES CO2, CO3 AND CO5

These Cook Electric buried plant terminal housings are available in three basic sizes to accommodate extremely large as well as small requirements. Rigid above-ground housing makes unauthorized entry difficult. Easy to install and service.

Ground line cover mounts on the back plate by means of studs and bayonet type slots. Upper cover hooks over the top and engages stud on back plate. Retainer screw fastens the upper cover securely to back plate.

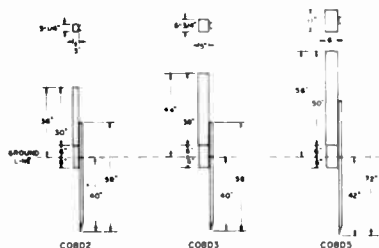
Back plate and both upper and ground line covers are fabricated from 14 gauge galvanized steel. An additional top coating of durable green colored vinyl is available if desired.

Interiors provide ample clear space for installing and terminating cable and wire, loading, and grounding.

For pedestal type mountings, two lengths of stakes are available. 58 inches and 72 inches. Fabricated from 10 gauge galvanized steel.

For pole or wall mountings, brackets are provided.

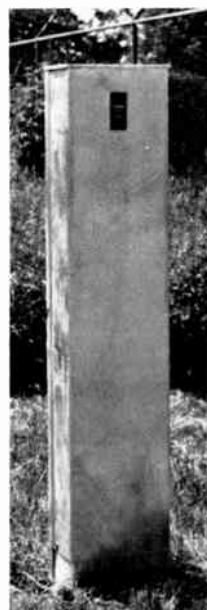
Overall dimensions of three complete units are indicated in the following diagram. The units shown are standard pedestal mounted units. However, the measurements for the housings will also apply for the pole or wall mounted units. Required depth of penetration of the pedestal, below the ground line, is indicated for the three sized units.



COBD2



COBD3



COBD5

Capacities of the new series of buried plant terminal housings are as follows:

Type of Housing	Unprot. Qty. Size	Washer Prot. Qty. Size	Gap Carbon or Gas Prot. Qty. Size	Load Coils or Inductors	Cable Splice Pairs	Gauge
CO2						
CO2-V						
COBD2						
COBD2-V	4	6	4	6	4	3
COBD2A					22	75
COBD2A-V						22
CO3						
CO3-V						
COBD3						
COBD3-V	7	6	7	6	7	3
COBD3A					36*	200
COBD3A-V						19
CO5						
CO5-V						
COBD5						
COBD5-V	10	6	10	6	10	3
COBD5A					52*	600
COBD5A-V						22

*Standard coil capacities can be doubled with special mounting brackets No. CO-F.

Price Information For Buried Plant Terminal Housings

Cat. No.	Description	Each
Complete Units — Stake Mounted — Galvanized Finish		
COBD2	CO2 Housing	\$10.10
	CO58 (58") Mounting Stake	
	CO-A Accessory Package	
COBD3	CO3 Housing	15.85
	CO58 (58") Mounting Stake	
	CO-A Accessory Package	
COBD5	CO5 Housing	31.70
	CO72 (72") Mounting Stake	
	CO-A & CO-B Accessory Packages	
Complete Units — Pole Mounted — Galvanized Finish		
COBD2A	CO2 Housing	8.85
	CO-C Accessory Package	
COBD3A	CO3 Housing	14.60
	CO-D Accessory Package	
COBD5A	CO5 Housing	29.45
	CO-B & CO-D Accessory Packages	
Complete Units — Stake Mounted — Green Vinyl Finish Over Galvanizing		
COBD2-V	CO2-V Housing	13.25
	CO58-V (58") Mounting Stake	
	CO-A Accessory Package	
COBD3-V	CO3-V Housing	20.60
	CO58-V (58") Mounting Stake	
	CO-A Accessory Package	
COBD5-V	CO5-V Housing	38.20
	CO72-V (72") Mounting Stake	
	CO-A & CO-B Accessory Packages	
Complete Units — Pole Mounted — Green Vinyl Finish Over Galvanizing		
COBD2A-V	CO2-V Housing	12.00
	CO-C Accessory Package	
COBD3A-V	CO3-V Housing	19.35
	CO-D Accessory Package	
COBD5A-V	CO5-V Housing	35.90
	CO-B & CO-D Accessory Packages	

INDIANA TELEPHONE TERMINAL HOUSINGS

CABLE TERMINAL HOUSINGS

A complete line of quality engineered Telephone Terminal Housings having capacities for loading, terminating or splicing up to 600 pair cables, is manufactured, for both pole or stake mountings.

Model 18 — Pole or Stake Mounted Housing

FEATURES: Self-opening-closing weatherproof enclosure of hot-dipped galvanized-after-forming steel; tilt-out, in-line, terminal mounting strip with insulated section; 3-position plated ground connector; auxiliary ground bolt location; more than 9" of space between cable clamp and terminal strip for cable pressurization equipment; 2 rubber grommets near top of back channel for aerial service drop wires.

CAPACITY: Large interior space accommodations for up to 25 pairs of splicing; up to 10 pairs of loading; up to 18 pairs of termination; or a combination of the three.

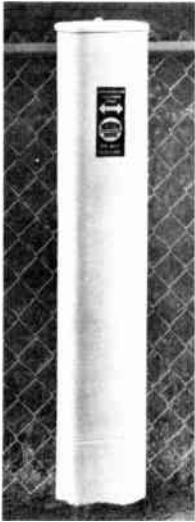
These are produced in hot-dipped galvanized steel and are designed for simplified installation and easy servicing of cable and equipment.

Model 60 — Pole or Stake Mounted Housing

FEATURES: Self-opening-closing weatherproof enclosure of hot-dipped galvanized-after-forming steel; tilt-out, in-line terminal mounted strip and auxiliary cross-mounting bar for maximum loading coil and/or equipment mounting space; 3-position plated ground connector; auxiliary ground bolt location; more than 9" of space between cable clamp and terminal strip for cable pressurization equipment; 2 rubber grommets near top of back channel for aerial service drops; terminal mounting strip mounted over 3" from back channel so that cable splices can remain undisturbed.

CAPACITY: Large interior space accommodates up to 600 pairs of splicing; up to 172 pairs of loading; up to 60 pairs of termination; or a combination of the three.

Model 36 — Pole or Stake Mounted Housing



FEATURES: Self-opening-closing weatherproof enclosure of hot-dipped galvanized-after-forming steel; tilt-out, in-line terminal mounting strip with insulated section and auxiliary cross-mounting bar for maximum loading coil or equipment mounting space; 3-position plated ground connector; auxiliary ground bolt location; more than 9" of space between cable clamp and terminal strip for cable pressurization equipment; 2 rubber grommets near top of back channel for aerial service drop wires.

CAPACITY: Large interior space accommodates up to 150 pairs of splicing; up to 50 pairs of loading; up to 36 pairs of termination; or a combination of the three.

Model 41 — Stake Mounting with Provision for CATV



FEATURES: Self-opening-closing weatherproof enclosure of hot-dipped galvanized-after-forming steel; tilt-out, in-line, terminal mounting strip with insulated section; 3-position plated ground connector; auxiliary ground bolt location; space between cable clamp and terminal strip for cable pressurization equipment; space for CATV components; mounting bolt location for universal back-to-back mounting with power housings.

CAPACITY: Large interior space accommodates up to 150 pairs of splicing; up to 50 pairs of loading; up to 18 pairs of termination; or a combination of the three.

Catalog Number	REA Type	Components Pole			Capacity — Pairs			Approximate Shipping Weight		Each
		Housing Number	Mounting Bracket	Stake	Termination	Loading	Splicing	Standard Package	Lbs./Each	
12-S	.....	.....	.....	.....	12	12	12	4	12	\$ 7.80
18-S	BD-2	18	.....	S-54	18	10	25	4	22	10.95
18-P	BD-2A	18	F-2	.....	18	10	25	4	12	9.35
36-S	BD-3	36	.....	S-54	36	50	150	2	32	16.30
36-P	BD-3A	36	F-2	.....	36	50	150	2	22	14.70
41-S	.....	.....	.....	S-90-D	18	50	150	1	46	27.85
41-P	.....	.....	F-2	.....	18	50	150	1	24	17.75
60-S	BD-4	60	.....	S-54	60	172	600	1	44	24.55
60-P	BD-4A	60	F-2	.....	60	172	600	1	34	22.95
CABLE "U" GUARD										
6-P	.....	6	6-5-3	.....	6	3	6	4	7	7.00

NOTE: All carry U.S. Patent No. 3,149,198.

RELIABLE

POWER PEDESTALS



Back plate is bolted to a stake. The lower cover section is fastened to the back plate and is buried a minimum of 10" in the ground to provide protection for the cables as they come out of the ground. The upper cover is 21" long and when removed leaves the interior completely open for making service connections.

There is sufficient space in the Series 4000 Pedestals to distribute up to four circuits from the secondary main using as large as 350MCM stranded conductors on all circuits. The upper cover is equipped with a hasp so that it can be padlocked. Available with a special dark green painted finish. Connecting blocks must be ordered separately. To order the green finish, add the letter "B" to the catalog number.

Cat. No.	Dimension, Inches			Each
	Width	Depth	Height	
4000	6	7	46	\$12.35
4001	8	7	46	13.65
4002	8	8	46	14.00

COMMUNICATIONS BURIED WIRE PEDESTAL TERMINALS



No. 3550 Buried Wire Pedestal Terminal is supported by its own support post. There is room to mount two 2-pair terminal blocks or four 1-pair terminal blocks. Two single pair loading coils may also be installed.

No. 3560 Buried Wire Pedestal Terminal is mounted on a pole or post. It is equipped with four neoprene-grommeted drop wire entrances. Two 2-pair terminal blocks or four 1-pair terminal blocks or two single load coils may be mounted.

Materials — units are formed out of 13 gauge (.089") mill galvanized steel which is then bonderized and given a green alkyd paint finish.

No. 3550 Buried Wire Terminal with mounting stake and one 5562-P two-pair connecting block. Weight 22½ lbs.each \$6.65

No. 3560 Buried Wire Terminal for pole mounting, with one 5562-P two-pair connecting block. Weight 6½ lbs.each \$4.05

SONOCO

Duorpipe® Bituminized Fibre

VAULTS, PEDESTALS, PULL BOXES & ACCESSORIES



VAULTS:

Diameter	Cat. No.	Description
30"	V30	Plain — no connection
	V30C2	With two clevis connections
	V30C4	With four clevis connections
	Standard Length — 4'	
36"	V36	Plain — no connections
	V36C2	With two clevis connections
	V36C4	With four clevis connections
	V36R	With 1" x 1" x 1/8" galv. angle ring
	V36T	With 1½" x 1½" x 1/8" galv. tab ring
	V36F	With fibre rings at top
	V36RHF	With 1" x 1" x 1/8" angle ring, transformer support holes, fibre ring at bottom
AE36	18" adjustable extension	
Standard Length — 4', 5' & 6'		
42"	V42	Plain — no connections
	V42C4	With four clevis connections
	V42R	With 1" x 1" x 1/8" galv. angle ring
	V42T	With 2" x 1½" x 1/8" galv. tab ring
Standard Length — 5' & 6'		
48"	V48	Plain — no connections
	V48C4	With four clevis connections
Standard Length — 5' & 6'		
55" x 40" Oval	OV5540	55 x 40 Plain oval vault
	OV5540C4	55 x 40 oval vault with four clevis connections
Standard Length — 4', 5' & 6'		

VAULT COVERS:

Vault Diameter	Cat. No.	Description
30"	SL30I	Cast iron solid cover
	GL30I	Cast iron grate
36"	SL36I	Cast iron solid cover
	GL36I	Cast iron grate
	GL36WG	Welded steel grate, galvanized
	GL36WP	Welded steel grate, galv. & painted green
42"	GL42I	Two piece cast iron grate
48"	GL48I	Two piece cast iron grate
55" x 40" Oval	SL5540I	Two piece cast iron solid cover
	GL5540I	Two piece cast iron grate

SHIELDS & BAFFLES:

Diameter	Cat. No.	Description
24"	S24G	Conical shield made of galvanized metal with 12" long straps for hanging above transformer
	S24S	Conical shield made with stainless steel with 12" long straps for hanging over transformer
28"	S28G	Conical shield made of galvanized metal with 12" long straps for hanging over transformer
	S28S	Conical shield made with stainless steel with 12" long straps for hanging over transformer
32"	B32GP	30" long baffles galvanized and painted black
	B32S	30" long baffle stainless steel

PEDESTALS:

Diameter	Cat. No.	Description
12"	P12B	With bracket connections
	P12C	With clevis connections
	P12CC	With captive bolt clevis connection
	Standard Length — 15"	
15"	P15C	With clevis connections
	P15CC	With captive bolt clevis connection
Standard Length — 18"		
18"	P18C	With clevis connection
	P18CC	With captive bolt clevis connection
Standard Length — 18"		
24"	P24C	With clevis connection
	P24CC	With captive bolt clevis connection
Standard Length — 18"		

PEDESTAL COVERS:

Pedestal Diameter	Cat. No.	Description
12"	PL12B	Green plastic for use only with P12B
	SL12I	Cast iron solid cover
15"	SL12IE	Cast iron solid cover marked "Electric"
	SL15I	Cast iron solid cover
18"	SL15IE	Cast iron solid cover marked "Electric"
	SL18I	Cast iron solid cover
24"	SL18IE	Cast iron solid cover marked "Electric"
	SL18I	Cast iron solid cover
Cast iron solid cover marked "Electric"		

AIR BELLS:

Pedestal Diameter	Cat. No.	Description
12"	A1411	Gray, polyethylene air bell 14" long x 11" dia.
15"	A1714	Gray, polyethylene air bell 17" long x 14" dia.
18"		
24"		

Price on Application

UTILITY PRODUCTS CABLE CLOSURES

R.E.A. APPROVED CLOSURES

RE-2A (BD-2A type) Pole Mounting Unit
RE-2 (BD-2 type) Pedestal Unit

Weatherproof Closure, hot-dipped galvanized after fabrication. Tilt-out keyhole. Mounting strip for 3-6 pr. Terminal Blocks. Two 3/4" rubber grommets at top of back channel for aerial service wires.

Capacity 136 cu. in.

- A. Looping — 50 pair — 22 gauge cable or equivalent for distribution or loading purposes.
- B. Mounting — 3-6 pair blocks or equivalent in loading coils and/or terminal blocks. *Blocks not included.*

	Each	Wgt.
RE-2A	9.00	15#
RE-2	10.25	21#

RE-3AC (BD-3A type) Pole Mounting Unit

RE-3C (BD-3 type) Pedestal Unit

Weatherproof Closure, hot-dipped galvanized after fabrication. Tilt-out keyhole mounting. Strips for 6-6 pr. Terminal blocks. Two 3/4" rubber grommets at top of channel for aerial service wires.

Capacity 550 cu. in.

- A. Looping 150 pair — 22 gauge or equivalent for distribution or loading purposes.
- B. Mounting—6-6 pr. Terminal blocks or equivalent in loading coils and / or terminal blocks. *Blocks not included.*

RE-4A (BD-4A Unit)

Pole Mounting Type

RE-4 (BD-4 Unit) Pedestal Unit

Same as RE-3AC and RE-3A except mounting strips will hold 10-6 pr. terminal blocks.

Capacity

- A. Looping—600 pr.—22 gauge cable or equivalent for distribution or loading purposes.
- B. Mounting—10-6 pair Terminal Blocks or equivalent in loading coils and/or terminal blocks. *Blocks not included.*

	Each	Wgt.
RE-3AC	15.15	29#
RE-3C	16.40	35#
RE-4A	17.90	36.5#
RE-4	19.15	42.5#

Cat. No. RE-5 (BD-5 type) Pedestal Unit

Large, hot-dipped closure galvanized after fabrication with removable sides.

Capacity — 2400 cu. in.

- A. Looping — 600 pair — 22 gauge cable or equivalent for distribution or loading purposes.
- B. Mounting — 10-6 pair terminal blocks or equivalent in loading coils. *Blocks not included.*
- C. Splicing — Maximum size Polyethylene insulated conductor cable.
 600 pr. — 22 gauge
 900 pr. — 24 gauge

	Each	Wgt.
RE-5	32.40	58#



RE-4A



BURIED WIRE CLOSURE

Cat. No. 6PM

For buried wire termination. Max. capacity — 6 pair loading, 2 pair — protecting 6 pair. Bracket provided for pole mounting (when used in place of 4 PM). Finish—Mill galvanized, 14 gauge steel with vinyl primer and dark green alkyd finish. Hot-dipped galvanized swing out mounting plate. *No blocks furnished.*

Cat. No. 4PM

Same as above, but for pole mounting.

	Height	Width	Each	Wgt.
6PM	72"	4 1/2"	7.50	21#
4PM	12 1/4"	4 1/2"	4.25	6#



6PM

Cat. No. B-12, B-36, B-60

All B type domes fit the same Base Plate. To expand service, a change of dome and internal brackets is all that is required. B-12 Closures furnished with mounting bracket for 1 six pair block only. B-36 furnished with mounting bracket for 6 six pair blocks only. B-60 furnished with mounting bracket for 10 six pair blocks only.

Base Plate fingers provide continuous ground when cable sheath is anchored to Base Plate with grounding clamp.

Each

B-12 - \$7.80, B-36 - \$10.40, B-60 - \$12.95



B-12

No Blocks Furnished — Specify Separately

Cat. No.	Dia.	Height	Cable Size	Recommended Capacity		
				Term	Protection	Loading
B-12	6"	10"	1"	12 Pr.	6 Pr.	6 Pr.
B-36	6"	15"	1 1/2"	36 Pr.	18 Pr.	18 Pr.
B-60	6"	22"	1 1/2"	60 Pr.	30 Pr.	30 Pr.

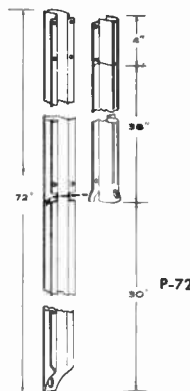
BURIED CLOSURE POST

Cat. No. P-72

Buried Closure Post — Post and Cover Assembly provides maximum protection for Buried Cable up to 2" O.D. from a minimum of 6" below ground level up through the base plate. Two piece cover for easy field installation*. Finish — mill galvanized 13 gauge steel Utility Standard "A" finish.

Each — \$6.00

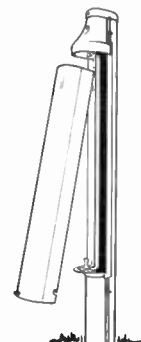
*Flanged for extra strength — split design eliminates condensation.



P-72

Cat. No. C Post

C Post is for splicing cables up to 2" in diameter. Splicing area is 3 1/2" ID x 28" long. Overall length of Post is 72". Designed to remove splicing from terminating area. Post Cover can be removed to get at splicing area or Dome can be removed to get at terminating area. Finish is mill galvanized 13 gauge steel — Utility Standard "A" finish. May be used with B12, 36 or 60 for termination. **Each \$8.95.**



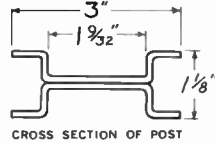
C POST

UTILITY PRODUCTS CATV CLOSURES



Telephone and Power Combination

These units may be used individually or jointly with the PT Post, for back to back installation. Each unit consists of a back and two-piece cover. Utility Standard Finish A.



Telephone

Cat. No.	Width	Depth	Length	Term.	Prot.	Wgt.	Each
7201-T	6"	7"	42"	12 pr.	6 pr.	27#	\$13.25 ea.

Power

Cat. No.	Width	Depth	Length	Secondary	Service	Wgt.	Each
7201-P	6"	7"	46"	250CM	4-2/0	30#	\$10.50
7201-P8	8"	8"	46"	250CM	6-2/0	36#	12.50

Add Suffix M — Tamperproof Lock to Cat. No.
Add Suffix H — Padlock Hasp to Cat. No.

Post

(13 gauge Mill Galv. Utility Standard Finish A) — No. indicates depth of penetration — all posts project 30" above ground:

Cat. No.	Wgt.	Each
PT-42	13.5#	\$4.00 ea.
PT-48	14.0#	4.35 ea.
PT-54	15.5#	4.70 ea.
PT-60	17.0#	5.00 ea.



Steel Splice Closures

These Closures are used in buried plant to house above ground splices and loading of cables or in dedicated plant at access and control points. Both sides and top are removable for field installation. Cover is heavy mill galvanized 14 gauge steel with Utility Products standard green baked alkyd finish. Fastenings are stainless steel. Two steel posts 42" long are furnished with closures.

Closure Used For	Splicing	Loading	Control Point	Access Point	Term.	Wgt.	Each
UP-400	400 Pr. Max.	200 Pr. Stubb 75 Pr. Splice	200 Pr.	200 Pr.	6	39#	\$16.80
UP-900	900 Pr. Max.	400 Pr. Stubb 100 Pr. Splice	900 Pr.	400 Pr.	6	61#	25.50
UP-1200	1200 Pr. Max.	900 Pr.	900 Pr.	400 Pr.	6	118#	42.00

Because of the flexibility of these units, various internal parts must be ordered separately. Write for details or see Utility Catalog.



Cat. No. 412

Brilliant three-color Warning Sign to prevent costly "Dig-Ups." Used to show placement and direction of Buried plant. Stake 72" long, Flag Area 4" x 12". Wgt. 6 lbs. \$1.60 ea. REA Approved

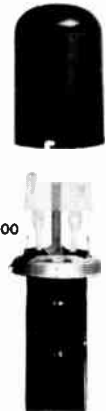
CATV and Combination Telephone and CATV Closures are available in various sizes. Most units have sealed marine plywood back boards for mounting CATV components. 14 gauge steel covers and sides are removable for field installations. TV600 or TV TEL 600 are self-supported on 13 gauge mill galvanized post. All units include mounting posts except TV-800 series for which proper length PT posts may be ordered separately.



TV-800



TV-1600



TV-600

Cat. No.	Cubic Inches	Backboard	Will House	Terminate	Wgt.	Each
TV-600	180" 10" Dome	None Necessary	4-Way Tap		24#	\$12.00
TV-TEL 600	270" 15" Dome	None Necessary	4-Way Tap	6	25#	\$14.00
TV-800	1280"	3/4"x7"x14"	4 or 6 Way Tap plus splitter or line extender		42.5#	\$15.50
TV-TEL 800	1280"	3/4"x7"x14"	4 or 6 Way Multi Tap plus splitter or line extender	Up to 1.70" cable and 6 service wires	42.5#	\$17.75
TV-1000	2700"	3/4"x9"x20"	4 or 6 Way Multi Tap plus splitter or line extender		59#	\$35.00
TV-TEL 1000	2700"	3/4"x9"x20"	4 or 6 Way Multi Tap plus splitter or line extender	Full size cable, 6 service wires	59#	\$36.75
TV-1600	4320"	3/4"x15"x22"	4 or 6 Way Multi Tap plus splitter or line extender		101#	\$43.00
TV-TEL 1600	4320"	3/4"x15"x22"	4 or 6 Way Multi Tap plus splitter or line extender	Full size cable, 6 service wires	101#	\$44.75

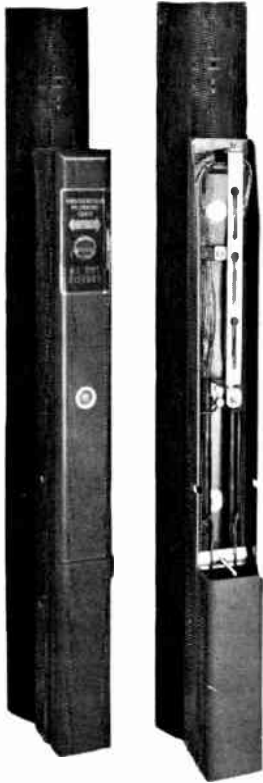


U-GUARD

U-Guards

Available in both hot dipped galvanized after fabrication (REA Approved) or in the longer life at less cost mill galvanized with Utility Products standard green finish. Prices on application.

SUPERIOR FIBER GLASS BURIED PLANT TELEPHONE TERMINAL HOUSINGS



Fiber glass housing, 4" wide, 3 3/4" deep x 34" high. Accommodates 3 six-pair terminal blocks or equivalent.

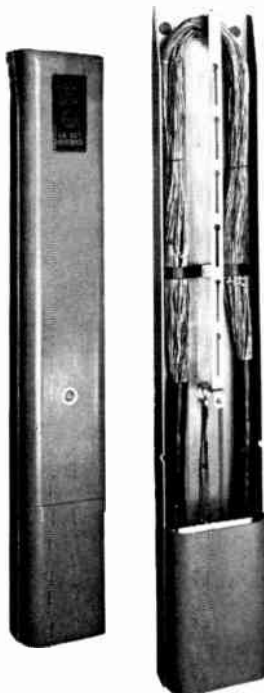
No. F-2 (REA Type BD2)—Complete with 48" galvanized steel stake. Standard package, 8; weight 107 lbs.
..... each **13.75**

No. F-2A (REA Type BD2A) — Complete with pole-mounting kit. Standard package, 8; weight 45 lbs.each **11.75**

No. F-2F — Complete with 48" fiber glass stake. Standard package 8; weight 64 lbs.
..... each **15.90**

No. F-2S — Complete with 48" stainless steel stake. Standard package 8; weight 83 lbs.
..... each **21.00**

Note: To specify green color, add suffix -G to catalog number. To specify orange color, add suffix -O to catalog number.



Fiber glass housing, 7 1/2" wide x 3 3/4" deep x 44" high. Accommodates 6 six-pair terminal blocks or equivalent.

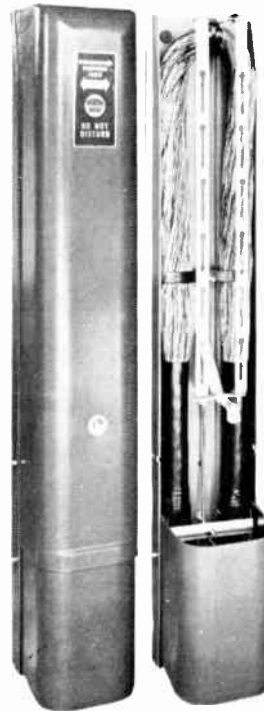
No. F-3 (REA Type BD3) — Complete with 60" galvanized steel stake. Standard package 8; weight 167 lbs.
..... each **22.10**

No. F-3A (REA Type BD3A) — Complete with pole-mounting kit. Standard package 8; weight 75 lbs.each **17.75**

No. F-3F — Complete with 60" fiber glass stake. Standard package 8; weight 103 lbs.
..... each **23.05**

No. F-3S — Complete with 60" stainless steel stake. Standard package 8; weight 111 lbs.
..... each **29.90**

Note: To specify green color, add suffix -G to catalog number. To specify orange color, add suffix -O to catalog number.



Fiber glass housing, 7 1/2" wide x 7 1/4" deep x 44" high. Accommodates 12 six-pair terminal blocks or equivalent.

No. F-4 (REA Type BD4) —Complete with 60" galvanized steel stake. Standard package 4; weight 99 lbs.each **27.05**

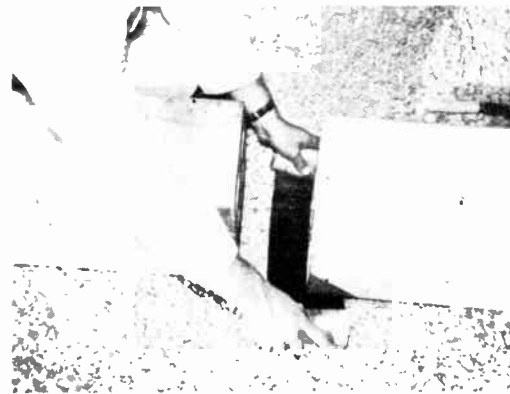
No. F-4A (REA Type BD4A) — Complete with pole-mounting kit. Standard package 4; weight 52 lbs.each **22.65**

No. F-4F — Complete with 60" fiber glass stake. Standard package 4; weight 67 lbs.
..... each **28.00**

No. F-4S — Complete with 60" stainless steel stake. Standard package 4; weight 83 lbs.
..... each **35.00**

Note: To specify green color, add suffix -G to catalog number. To specify orange color, add suffix -O to catalog number.

PROTECTO WRAP DUCT JOINING TAPE



This tape is the answer to sealing duct sections when using the practical and low cost straight-in duct.

The tape consists of a woven glass fabric impregnated with a bitumen and synthetic resins. Furnished in strip form, 6 inches wide and 70 feet in length, wound into rolls and packaged 4 rolls per carton. Each roll is interwound with a paper separator to insure easy unrolling regardless of the temperature. The separator paper should remain between the strips of precut tape to prevent sticking.

Duct Joining Tapeper roll **\$6.39**

DUCT JOINING PRIMER

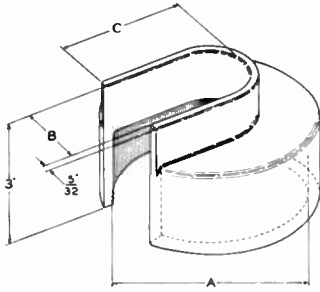
Duct Joining Primer is used to bond the tape to the conduit surface. The primer should be tacky when the tape is applied to the conduit.

Price Per Gallon

1-Gallon Can	5-Gallon Pail	55-Gallon Drum
\$4.07	\$3.78	\$3.40

FAIRMOUNT

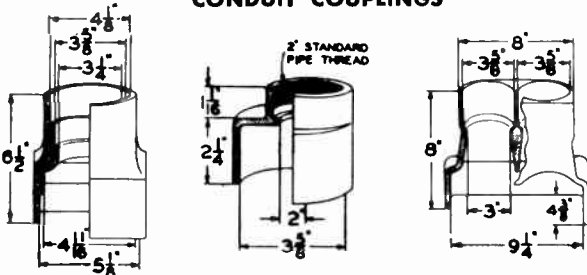
CAST IRON CAPS



Used for making connections between U-cable guards and iron pipe bends or conduit couplings where they emerge from the ground adjacent to the pole or wall surface.

Size Cap	Dimens., In.			Wt. Lbs.	Each
	A	B	C		
2-2	2 5/8	1 3/4	2 1/4	1.1	\$0.55
2-3 1/2	4 1/8	1 3/4	2 1/4	2.7	.85
3-3 1/2	4 1/8	2 3/4	2 7/8	2.1	.85

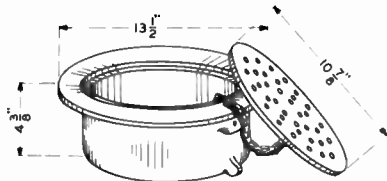
CONDUIT COUPLINGS



Iron couplings used for making connections between conduit pipe and bends. Various types and sizes available.

Type	Wt. Lbs.	Each
A	15	\$3.80
B	3	1.70
K	23	6.40

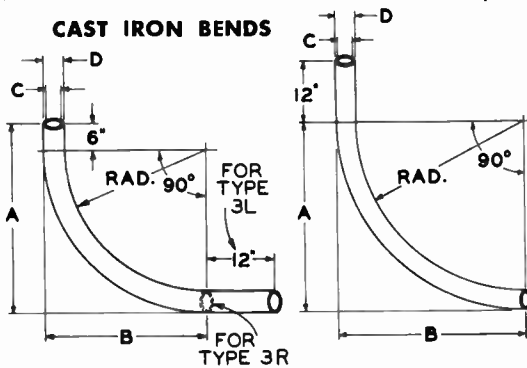
TYPE B MANHOLE SUMP



Cast iron sump used in manholes.

Height In.	Width In.	Weight Lbs.	Each
4 3/4	13 1/2	33	\$11.85

CAST IRON BENDS

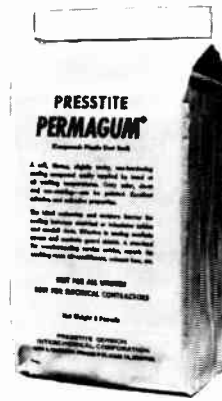


Types 3R and 3L Types 2L and 3 1/2 L

Iron bends are used for making turns in the subsidiary ducts of underground conduit construction.

Cat. No.	Radius	Dimens., In.				Wt. Lbs.	Each
		A	B	C	D		
2L	24	26 5/8	26 3/8	2	2 1/2	27	\$11.00
3R	24	33 3/4	27 3/4	3	3 1/2	41	12.50
3L	30	39 3/4	33 3/4	3	3 1/2	58	18.50
3 1/2 L	30	34 1/4	34 1/4	3 1/2	4	66	19.25

PERMAGUM



Permagem is a putty-like compound which is permanently non-hardening, non-oxidizing, and non-corrosive to metals, rubber, plastic, lacquer and paints.

Readily workable, it can be thumbed into any opening and formed for sealing around inspection plates, conduits, openings, cable joints.

Service temperature range is minus 30°F. to 400°F. Non-oxidizing, remains soft and plastic for an indefinite period at 70°F.

Quick, clean and easy to use, non-poisonous and non-injurious to the skin.

Size	Price Per Lb.*	Size	Price Per Lb.*	Wt. Lbs. Per Ctn.
1 Lb. Pkg.	\$0.31	5 Lb. Bag	\$0.26	50

*Price in quantities of 200 to 1000 lbs.

RUSSELL UTILITY TYPE MANHOLE FRAMES AND COVERS



Designed for underground electric or telephone construction. The horizontal bearing surfaces of the frame and cover are machined, and there is no rattle or rock in any position. Ventilated covers are available, and covers may be inscribed with special lettering or emblems as may be required.

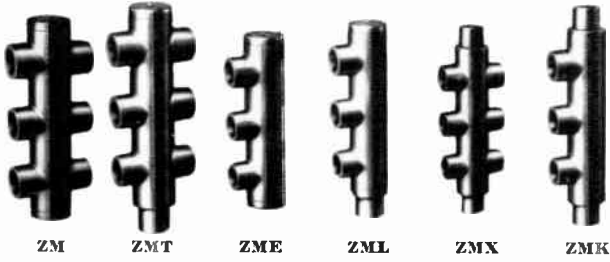
Where resurfacing of asphalt surfaces is necessary, extension rings for use with these castings are available. The extension ring repositions the cover to the new elevation. Manhole sumps are also available.

Cat. No.	Clear Opening Dia. In.	Cover Dia. In.	Base I.D. In.	Base O.D. In.	O.A. Hgth. In.
B-24	24	25 1/8	35	43	10
SB-27	27	28 1/8	34	46	5 5/8
B-27	27	28 1/8	38	46	10
SB-30	30	31 1/8	39	49	5 5/8
B-30	30	31 1/8	41	49	10

Price on Application

BURNDY ELECTRICAL CONNECTORS

ZM SERIES MOLE®



The Burndy Mole is a compact pre-insulated junction for secondary network cables. Accommodates a minimum of two cables. Cable is terminated at the Mole by means of a socket, cone and nut assembly. Taping operations are greatly simplified by use of Burndy Notape sleeve or Mole insulating sleeves.

STUD MOLE



The Burndy Stud Mole is designed to terminate cable at the studs of distribution transformers, network protectors and other similar equipment. Insulated except for the stud clamping element. Properly installed, the Stud Mole assembly is impervious to damage by flooding. A separate clamping cap on the stud element permits work to be done on the equipment without disturbing the cables.

INSULATED HYCRAB™



Compact, compression type HYCRAB pre-insulated junction for secondary network cables. Two outlets, one on either side ready for immediate use, all others sealed with vulcanized plugs. Easily taped, eliminates difficult crouch taping. Two basic sizes, 4/0 and 500 Mcm., cover range of 6-500 Mcm. using Y-R reducing adapters.

BARE (NEUTRAL) HYCRAB TYPE YNM



Uninsulated compression type HYCRAB for joining bare neutral underground cables. Two basic sizes, 4/0 and 500 Mcm., cover range of 6 to 500 Mcm. using Y-R reducing adapters.

LIMITER LUG ASSEMBLY TYPE YFA



The Limiter Lug is a terminal and a fuse. The fuse, a non-replaceable element, will clear when overloads are great enough to damage conductor insulation. Unlike a fuse, it will not clear on minimal or short duration overloads. Cable is installed with Burndy compression tools.

LIMITER ASSEMBLY TYPE YFS



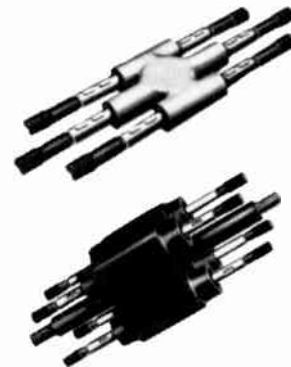
The Limiter assembly is a splice and a fuse. The fuse, a non-replaceable element, will clear when overloads are great enough to damage conductor insulation. Unlike a fuse, it will not clear on minimal or short duration overloads. Cable is installed with Burndy compression tools.

MOLIMETER® ASSEMBLY TYPE YFM



The MOLIMETER is used to terminate and fuse cable at Mole. The cable end is installed with Burndy compression tools. The other end is joined at the Mole outlet with a socket, cone and nut assembly. The fuse, a non-replaceable element, will clear when overloads are great enough to damage conductor insulation.

LIMITER HYCRAB TYPE YF-M



The Limiter HYCRAB provides protection for six or eight 4/0 or 500 Mcm. cables. Each cable end is attached to a separate fusible element by compression. The entire assembly is insulated. Insulating caps are available to protect unused outlets. Caps are slipped over outlets and held in place by a few turns of rubber tape.

Price on Application

BURNDY ELECTRICAL CONNECTORS

**UNDERGROUND RESIDENTIAL DISTRIBUTION
URD MOLE TYPE RDM**



Compact, completely insulated URD Mole designed specifically for residential or light industrial underground services. Available with four or six outlets. Sealing caps supplied on all but one outlet. Completed assembly can be directly buried or, used with URD-4 enclosures. URD Mole tap kits are used to terminate cable and insulate the joint.

RDM4-28 \$4.90/ea. RDM6-28 \$5.55/ea. Carton quantity 3 per box.

URD MOLE TAP ASSEMBLY



URD Mole tap kits used to join aluminum or copper cable at URD Mole outlets. Each kit consists of a HYLUG, heat-shrink sleeve and mounting hardware. Eight sizes cover range of 4 str. to 350 Mcm. Propane or electric heat gun (500°F) used to shrink sleeve not acetylene. Installed with MD6, Y35, Y34A.

Cat. No. Kit	Conductor		Ctn. Qty.	Each
	Aluminum	Copper		
RYA4UC	4 Str.-3 Str. 2 Sol. 2 Sol. EC-O	4 Str.-3 Str. 2 Sol.		
RYA2UC	2 Str.-1 Str. 1/0 Sol. 1/0 Sol. EC-O	2 Str.-1 Str. 1/0 Sol.		\$1.26
RYA25UC	1/0 Str.-2/0 Str. 2/0 Str. Comp.	1/0 Str.		
RYA26UC	2/0 Str. 3/0 Str. Comp.	2/0 Str.	9	
RYA27UC	3/0 Str. 4/0 Str. Comp.	3/0 Str.		1.65
RYA28UC	4/0 Str. 250 Comp.	4/0 Str.		
RYA29UC	250	250		
RYA31AC	350 336.4	.....		1.70

REPLACEMENT SLEEVE TYPE RYAC



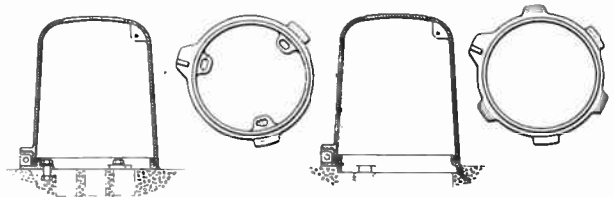
Cat. No.	Hylug Accon.	Carton Qty.	Each
RYAC25	RYA4U RYA2U RYA25U		\$0.85
RYAC28	RYA26U RYA27U RYA28U	12	.91
RYAC31	RYA29U RYA31A		.97

**BELOW GRADE SERVICE
ENCLOSURE TYPE URD-4**



The URD-4 Service enclosure assembly consists of a cast iron cover, polyethylene bell jar and a bituminized fiber enclosure. Can be installed at or below grade level. Can withstand 7,500 lb. weight and a 30,000 lb. axial crushing force. 14" I.D. provides ample working space for installing a wide variety of connector types and sizes. Compression type Y-LOK (J1592) available to secure cover after installations are completed.

**ABOVE GRADE SERVICE
ENCLOSURE TYPES DDP-B, DDP-K**



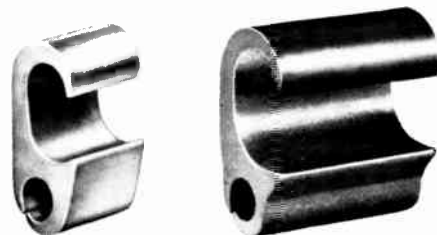
The above grade enclosure consists of a rugged, corrosion resistant aluminum-alloy dome and a cast-in or bolt-on type mounting ring. Two basic assemblies type DDP11 and DDP16 have 11" and 16" inside diameters respectively. Both accommodate a large variety of connectors.

**URD SERVICE TAPS
MECHANICAL TYPE KP-C, K-P-UC**



Compact, mechanical type URD Service taps for use with URD-4 or DDP service enclosures. Type K-P-C for copper services, type K-P-UC for copper or aluminum services. Both types are sold complete with insulating covers. Installed with Allen wrench the individual clamping elements allow cables to be connected or disconnected without disturbing adjacent connections.

COMPRESSION TYPE YPC-C, YPC-U



Compact, compression type URD service taps for use with URD-4 or DDP type service enclosures. Type YPC-C for copper services, type YPC-U for combinations of copper and aluminum surfaces. Installed connectors are easily taped. Figure 6 configuration separates run and tap conductors. YPC29C26 (copper) has range 2/0 Str.-250 run, 4 str.-3/0 Str. tap. YPC-U line has 5 connectors covering 6 Sol.-400 Mcm. range.

Price on Application

RELIABLE

URD INSULATING CLOSURES



A PVC Insulating closure for use in insulating and water-proofing the Reliable Circular Connecting Blocks. Provides a water-tight insulating cover and can be used above grade, at grade or below grade so as to meet any types of soil and climate conditions.

For copper or aluminum services. Accommodates cable sizes ranging from No. 2 through 350MCM.

Color Coded — Closures are orange color for phase conductors; white for neutral conductors.

Cover and base are polyvinyl chloride; cable clamps are stainless steel, 300 series.

Units contain: Cover, body, cover clamp, 2 secondary clamps and 1 service clamp.

Cat. No.	Description	Wt. Lbs.	Each
4040	Insulating Closure, Orange	1½	\$4.60
4040-W	Insulating Closure, White	1½	4.60

URD POWER VAULT



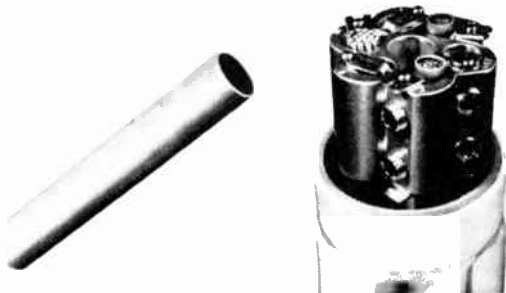
The Reliable No. 4010 Power Vault is the other part of the Reliable Total Underground Residential Distribution System. The sleeve is non-conductive and wholly resistant to corrosion, thawing, freezing and micro-organisms.

The Power Vault provides a good protective housing for the insulated connecting blocks and can be used at or below grade. The cast iron cover is secured to the fibre sleeve with stainless steel bolts.

Cover — cast iron, painted green to blend into landscape when used on grade. Sleeve — Bituminized fibre sleeve, 24" deep x 16" diameter, 18-8 stainless steel bolt.

Cat. No.	Description	Wt. Lbs.	Each
4010	Power Vault	45	\$16.50

ISOLATOR



Allows service disconnects to be made without removing the service conductor.

Cat. No.	Description	Each
4039	Used on No. 6 thru 2/0	\$2.00

INSULATING CAPS

Cat. No.	Description	Each
P-11674	Used on 4025, 4027 series	\$0.60
P-12223	Used on AL4026 series	.65

PVC INSULATED ¼-INCH HEX DRIVE WRENCH

No. P-11420each \$0.50

URD CIRCULAR FLOATING CONNECTING BLOCKS



These connecting blocks are supported only by the terminated conductors. The conductors are clamped in the connectors by set screws and floating saddles. The set screws are driven by a ¼" Allen wrench or with the Reliable PVC Insulated Wrench. Available is a line of Premium Heavy Duty and Light Duty Connecting Blocks for both aluminum and copper conductors.

URD RECTANGULAR FLOATING CONNECTING BLOCKS



Made only in aluminum. It accommodates service conductors from No. 6 through 4/0 and secondary conductors from 1/0 through 350 MCM. Conductors are clamped in by floating saddles, which are driven by two set screws for the secondaries, one set screw for the service conductors.

Cat. No.	Connecting Block	AWG		Each
		Min.	Max.	
Premium Heavy Duty				
4025	Bronze	6 sol	4/0 str	\$4.00
4025-P	Tin-Plated Bronze	6 sol	4/0 str	4.20
4025-G	Bronze*	6 sol	4/0 str	4.15
AL4025	Aluminum	6 sol	4/0 str	3.50
AL4025-G	Aluminum*	6 sol	4/0 str	4.65
Heavy Duty				
AL4026	Aluminum, Rectangular	1/0	350MCM	3.70
AL4026-G	Aluminum, Rectangular*	No. 6	4/0	
4027	Bronze, less saddles	No. 6	4/0	3.85
4027-P	Tin-Plated Bronze, less saddles	No. 6	4/0	3.50
4027-G	Bronze, less saddles*	No. 6	4/0	3.70
Light Duty				
AL4027	Aluminum	No. 6	4/0	3.65
AL4027-G	Aluminum*	No. 6	4/0	2.50
*With No-Melt inhibitor.				

T & B UNDERGROUND FITTINGS

UNDERGROUND TRANSFORMER ADAPTERS

No. UTA35040



Six-bore mechanical set screw connectors manufactured of wrought aluminum, with a NEMA-drilled pad suitable for bolting to transformer spade terminals. The two bores nearest the pad on the adapters have a conductor range of 350MCM stranded maximum and #2 solid minimum. The four outer bores have a conductor range of 4/0 stranded maximum and #4 solid minimum. All wire bores contain M54 oxide inhibitor. These fittings have a dull zincate finish, with an inhibitor film coating for corrosion resistance and efficient heat transfer.

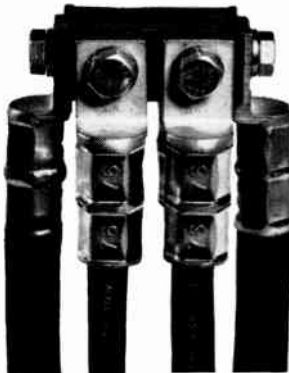
They are designed for bolting to transformer spade terminals, bus bars, or other aluminum or copper devices having $\frac{3}{8}$ " holes— $1\frac{1}{4}$ " on centers. Two conductors up to 350MCM stranded and four additional conductors up to 4/0 stranded maximum may be connected to this fitting.

Advantages

Adapter is made of wrought aluminum, not cast. All set screws are of two-piece construction, featuring a non-rotating saddle. This saddle eliminates conductor damage during installation and assures maximum applied force on contact surfaces. Dull zincate finish reduces operating temperature as much as 20°C. All wire bores contain M54 oxide inhibitor.

UNDERGROUND BLOCKS

No. UTB61



Terminal blocks which will accommodate up to six XT series wrought aluminum underground terminals. The XT series terminals have a wire range of #6 solid through 4/0 stranded aluminum or copper conductor. The terminal blocks are manufactured from high conductivity wrought aluminum and have a dull zincate finish, with an inhibitor film for corrosion resistance and efficient heat transfer. They are packaged in individual plastic bags complete with six $\frac{3}{8}$ " x $\frac{3}{4}$ " long aluminum bolts and six lockwashers.

They are designed to be used with XT series underground terminals in pedestals, vaults, enclosures, hand holes, etc. on underground distribution systems. They will meet the requirements of those who insist on compression connections on aluminum conductors, yet want to mechanically connect house services to secondary feeders.

Advantages

Block is made of wrought aluminum, not cast. Compression connections on conductors—however, individual house services may be disconnected and reconnected to terminal block. Dull zincate reduces the operating temperature as much as 20°C. Center surfaces of block furnish additional area to radiate heat.

UNDERGROUND PEDESTAL BLOCK CONNECTORS

No. UPB35040



Mechanical set screw block connectors made of wrought aluminum. The two center bores have a conductor range of 350MCM stranded maximum #2 solid minimum. The four corner bores have a conductor range of 4/0 stranded maximum and #4 solid minimum. All wire bores

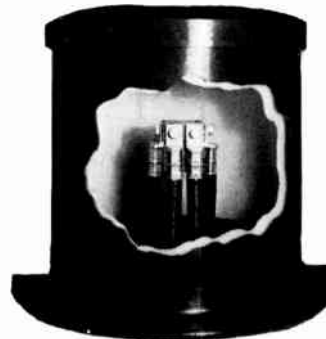
contain M54 oxide inhibitor. These blocks have a dull zincate finish, with an inhibitor film coating for corrosion resistance and efficient heat transfer.

They are designed for use in pedestals, vaults, enclosures, hand holes, etc. on underground distribution systems. They permit up to four 4/0 services to be tapped from a 350MCM or smaller feed. Another feeder or fifth service may be tapped from the remaining large bore.

Advantages

Connector is made of wrought aluminum, not cast. All set screws are two-piece construction, featuring a non-rotating saddle. This saddle eliminates conductor damage during installation and assures maximum applied force on contact surfaces. Dull zincate finish reduces operating temperature as much as 20°C. All wire bores contain M54 oxide inhibitor.

UNDERGROUND TERMINALS XT SERIES



Compression terminals made of high conductivity wrought aluminum. The pads of these terminals have been specially tempered to resist cold flow. The bores are pre-filled with T&B M54 oxide inhibitor and covered with a plastic cap to eliminate contamination. These fittings may be used with T&B

underground terminal block #UTB61 and have many other applications on distribution systems. Seven catalog numbers cover a wire range from #6 solid to 4/0 stranded aluminum or copper.

They are used to attach aluminum or copper conductors to terminal blocks, equipment pads, or other devices on underground or overhead distribution systems.

Advantages

One common die will install all seven lugs. Specially tempered pad to resist cold flow. Pre-filled with T&B M54 oxide inhibitor. Easy to remember catalog numbers—first letter indicates installing die (TX), second letter identifies fitting as a terminal. Numerals indicate largest size stranded conductor fitting will accept.

Wire Range (Aluminum or Copper)

Cat. No.	Solid	Concentric Str.	Compressed Str.	ACSR	Instal-ling Dies	No. Compressions
XT-4	6-2	6-4	6-4	6-5		
XT-2	1	2	2	3		
XT-1	1/0	1	1	2	Code 76	2
XT-10	2/0	1/0	1/0	1	UT5-TX-DIE	4
XT-20	3/0	2/0	2/0	1/0	840	4
XT-30	4/0	3/0	3/0	2/0	EEl-11A	.....
XT-40	.....	4/0	4/0	3/0	Index 249	4

Price on Application

PORTER OUTDOOR SUBSTATIONS

(DELTA-STAR)

22 to 115 KV (Incoming) — 7.2/12.47 (Outgoing)

Substation installations are generally unique having requirements singular to the location. To this point we state that a tailor-made arrangement can be furnished to suit your individual need. You are not compelled to purchase an unwanted "standard". On the other hand, we must recognize that many substations can have the majority of their contents the same or similar. Thus, stereotypes approach the status of "standards" and can be offered with a clear indication of arrangement and content with minimum engineering.

Figure 1 illustrates a typical radial feed rural type substation, suitable for a maximum of four low voltage feeders. A high voltage arrangement for tapping a loop system is also available. Other low voltage arrangements will provide 3, 5 or 6 feeders. A high voltage arrangement for tapping a loop system is also available. Other low voltage arrangements will provide 3, 5 or 6 feeders. Space between structures is normally suited to three single-phase transformers plus one spare. A horn gap vertical break switch, fuses, and lightning arresters are provided for the high voltage side. OCR disconnects, fuse bypassing, and distribution lightning arresters are provided for the feeders. Regulation and metering are normally provided for the low voltage bus with hookstick regulator by pass switches included. Two overhead shield

wires provide direct stroke protection.

Also illustrated are two forms of radial feed terminals, usually applied to small industrial plant substations. Either the fuse (Figure 2) or OCB (Figure 3) protection arrangement is available and suitable disconnect and/or bypass switches are provided.

Lightning arresters are normally included and optional masts and peaks provide direct stroke protection if required.

Above and below grade grounding materials are normally provided, based on our estimate of the grounding requirements.

Variations in design and arrangement are available. They can be quoted after receipt of appropriate information.

Your inquiry should include the following information:

1. A one-line diagram indicating all present and future equipment with ratings desired, system voltage and fault current available and an asterisk by any item not to be quoted.
2. A plot plan indicating size and shape of area available, line direction and tensions desired and any overhead clearance limits.

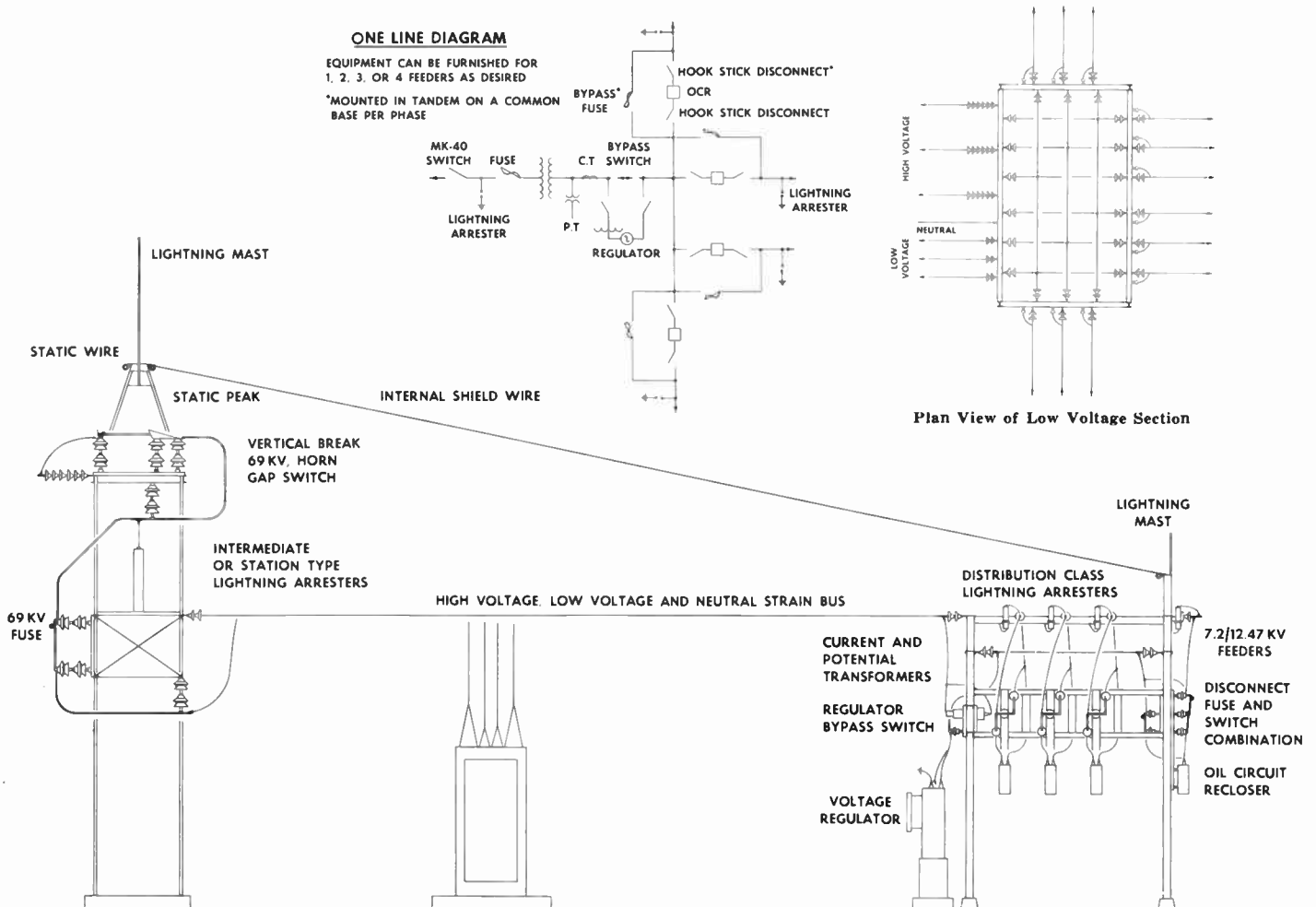
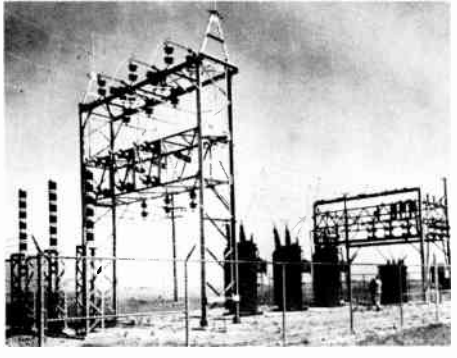
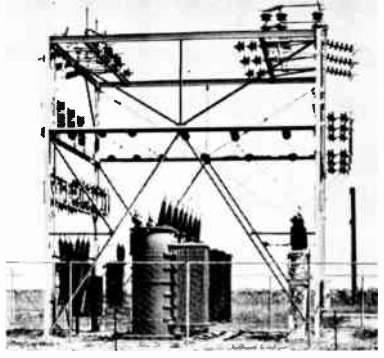


Fig. 1 Side Elevator View of Radial 69—7.2/12.47 KV REC Extended Type
Call Graybar for Complete Details

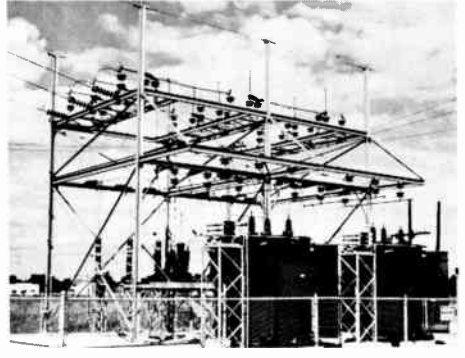
PORTER OUTDOOR SUBSTATIONS (DELTA-STAR)



Typical rural station for 69 KV incoming line and one or more 12 KV feeders.



Structure for single 69 KV incoming line with fuse protection and metering. Outgoing feeder has OCB protection.



Structure providing for two incoming 69 KV lines to feed two transformers with sectionalized bus.

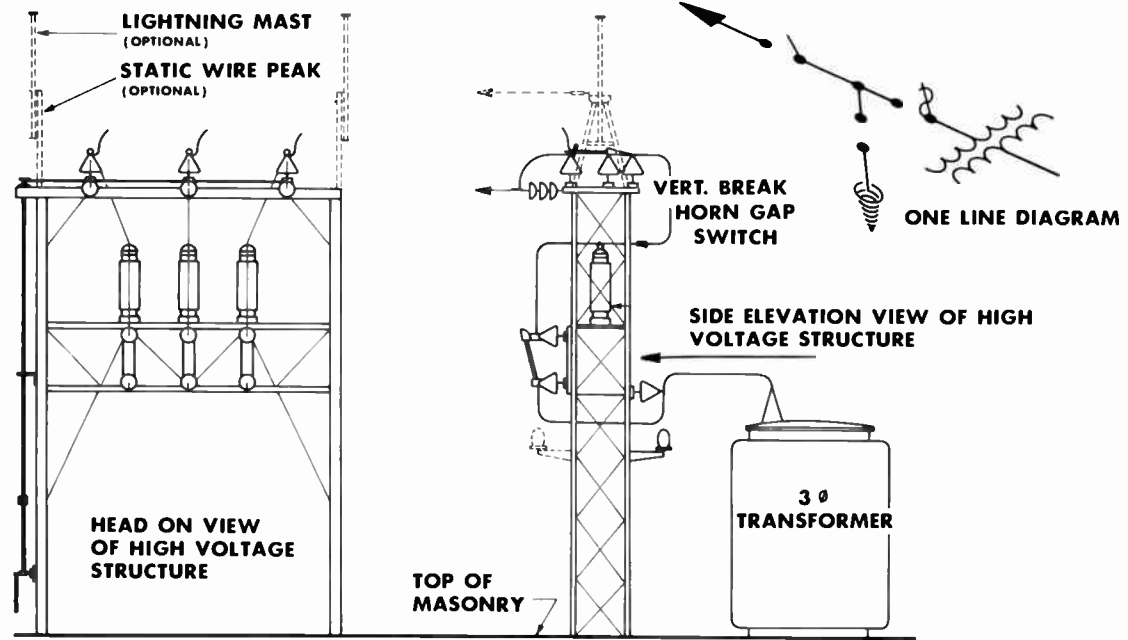


Figure 2 14.4 to 46 KV-Fuse Protection Radial Feed Terminal

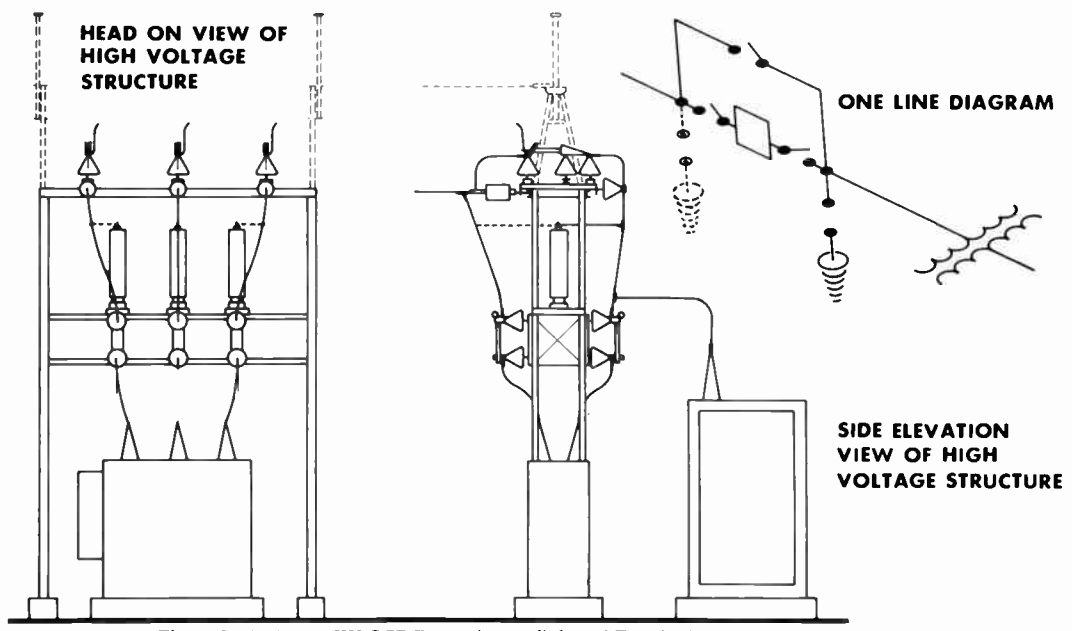
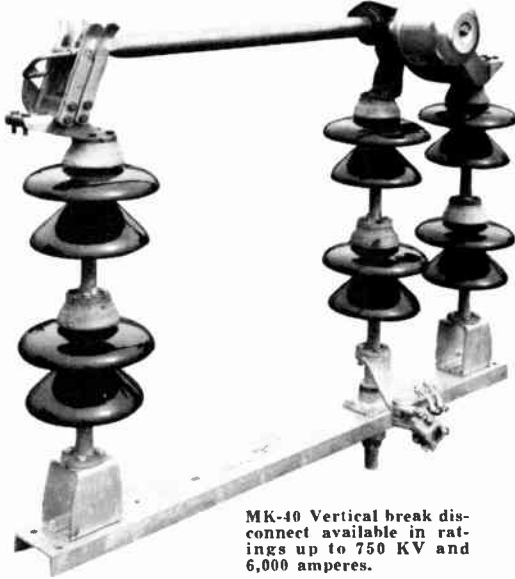


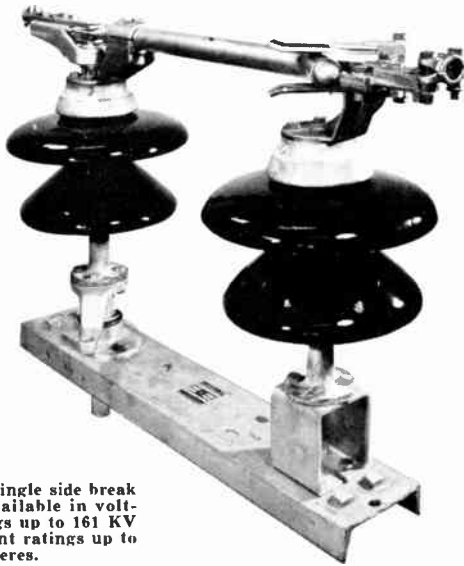
Figure 3 14.4 to 46 KV-OCB Protection Radial Feed Terminal
Call Graybar for Complete Details

PORTER OUTDOOR SUBSTATIONS (DELTA-STAR)

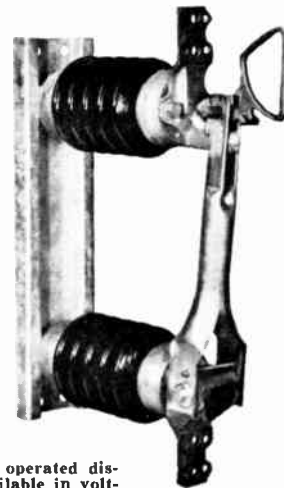


MK-40 Vertical break disconnect available in ratings up to 750 KV and 6,000 amperes.

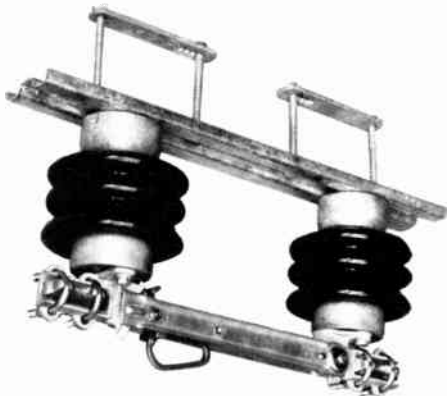
A complete line of disconnect switches to meet every need is available, in voltage ratings up to 750 KV and current ratings up to 6,000 amperes with standard or custom engineered operating mechanisms. The use of the finest materials and production methods insure the highest quality products to provide long life and trouble free service under adverse operating conditions. Bus supports are available to support any type of conductor such as a bar, round or square tubing, stranded cable, solid wire or structural shapes. Bases can be supplied for mounting supports on flat surfaces, pipes or structural sections. All ferrous parts are hot-dip galvanized after fabrication.



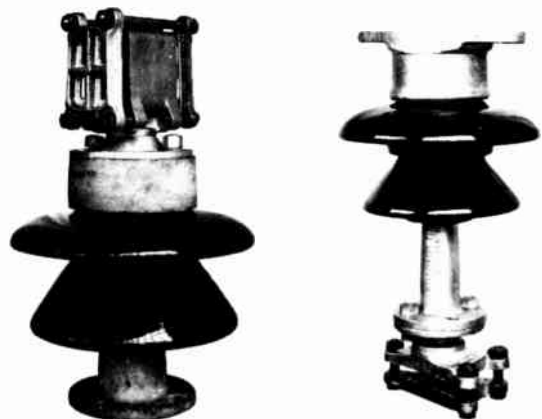
PMB-40 Single side break switch available in voltage ratings up to 161 KV and current ratings up to 1,200 amperes.



B-2M Hook operated disconnect available in voltage ratings to 69 KV in 600 and 1,200 ampere ratings.



15 KV, 600 ampere EV disconnect switch.



Outdoor Bus Supports for any type conductor or mounting surface are available.

C. I Graybar for Complete Details

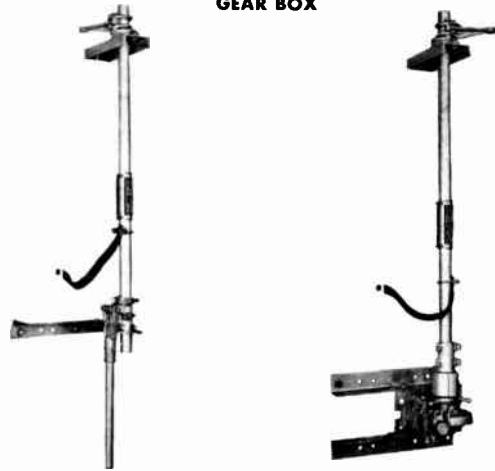
**PORTER OUTDOOR SUBSTATIONS
(DELTA-STAR)**

SF MOTOR MECHANISM



Motor Mechanisms for operating group operated switches are available for all types of switches.

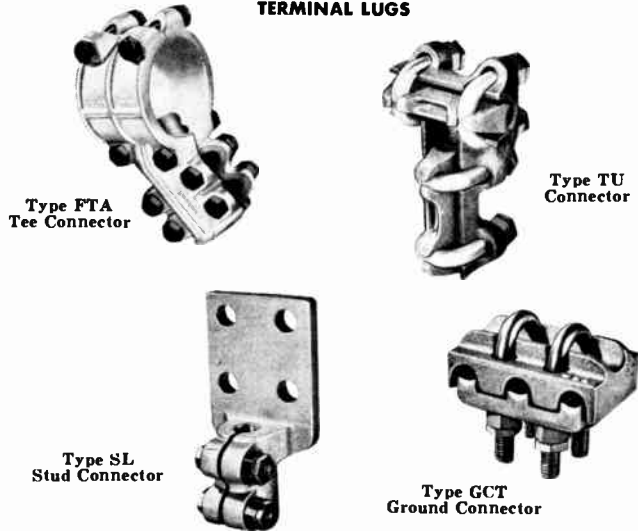
GEAR BOX



Standard Vertical operating shaft with Swing type handle for group operated switches.

Standard Vertical operating shaft with Gear Box operating handle for group operated switches.

TERMINAL LUGS



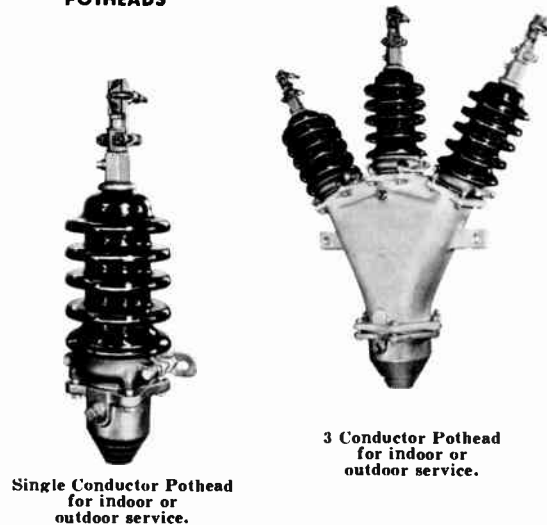
Type FTA Tee Connector

Type TU Connector

Type SL Stud Connector

Type GCT Ground Connector

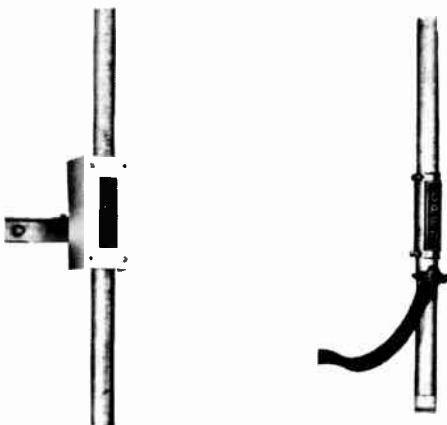
POTHEADS



Single Conductor Pothead for indoor or outdoor service.

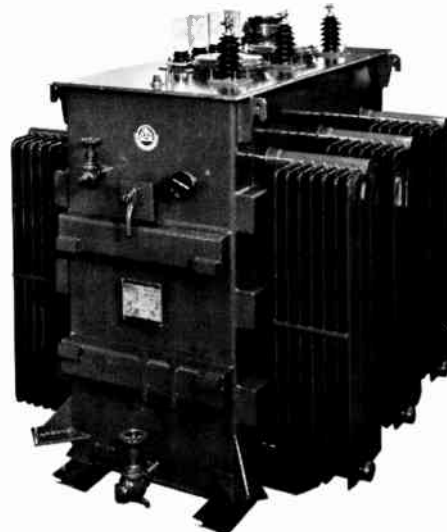
3 Conductor Pothead for indoor or outdoor service.

DESIGNATOR

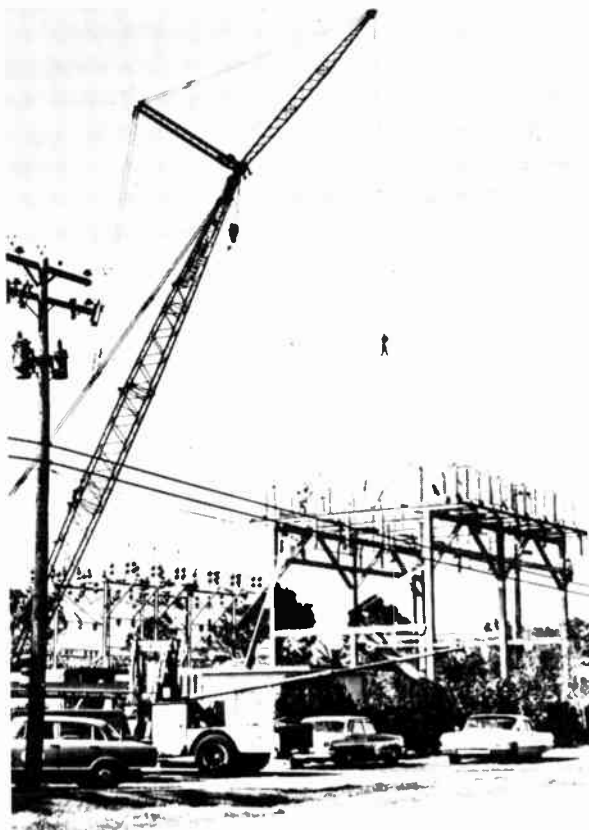


Designator signs for operating shafts of group operated switches.

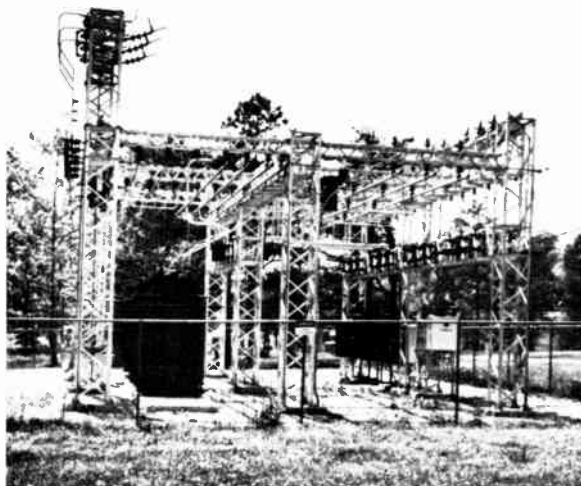
SUBSTATION TRANSFORMER



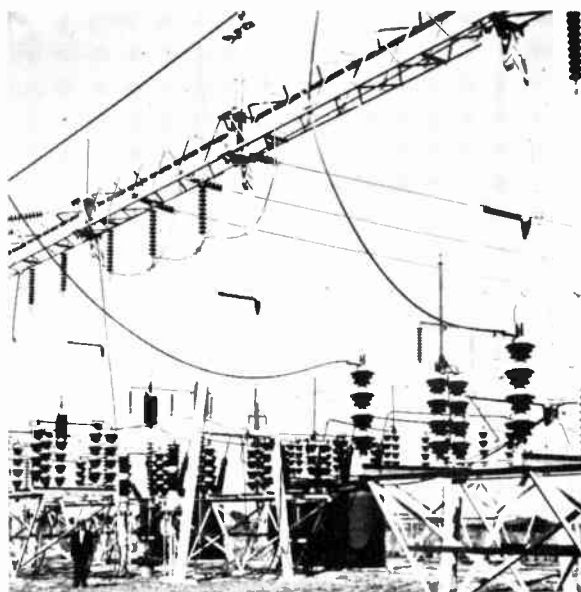
Call Graybar for Complete Details

ROYAL ELECTRIC SUBSTATIONS — STANDARDIZED OR CUSTOM

At this Royal-designed substation, the entire top framework, together with all equipment, was pre-assembled on the ground. The complete unit was then lifted into position in a single operation. This procedure saved man hours and costs, and simplified installation and inspection.



Aluminum is the material used at this rural substation. The structural framing is aluminum, and Royal aluminum connectors join aluminum runs and taps.



A-frame design provides strength and economy at this Royal substation in the Southwest.

With over a half century of experience in substation design and equipment, Royal Electric Manufacturing Co., Inc., is a prime source for superior outdoor substations. During this long period, Royal has built a reputation for engineering and manufacturing excellence. Royal substations combine the advantages of safety and accessibility with long operating life and low maintenance.

Royal has designed, and supplied components for, hundreds of substations. From these designs Royal has developed a variety of plans for "packaged" stations, which can often be utilized with little or no adaptation. This procedure saves design expense, and it helps speed up planning and construction time.

Royal is also prepared to design new substations in accordance with the special requirements of individual systems. With the present rapid growth in the need for broadened electric power supply, Royal is accustomed to design to special standards or unusual operating requirements.

ROYAL STANDARDIZED SUBSTATIONS

Capacities and Voltages — Common ratings for substations engineered and supplied by Royal are 1000 to 3000 kva, with high voltages of 23, 34.5, 46, or 69, and low voltages of 7.5/12.5 kv.

Royal, too, is fully experienced in filling special and unusual requirements and in equipping for extra high voltages. The ratings and voltages listed above by no means represent the limits of Royal's capability.

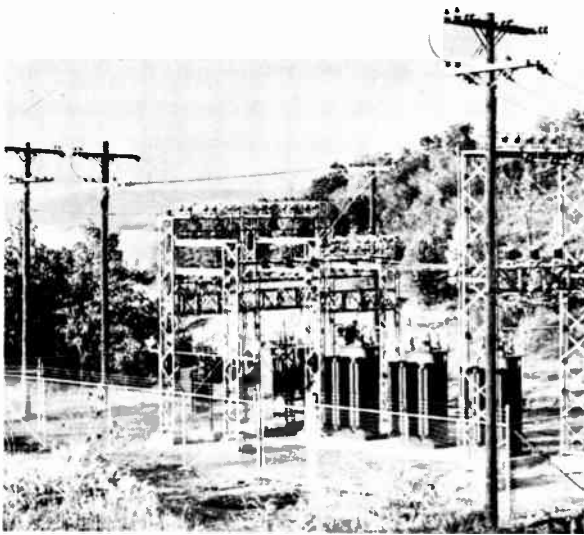
Bus Arrangements — Basic strung bus arrangements can be utilized for one, two or three high-voltage incoming lines. Low voltage arrangements have a maximum of four incoming lines.

Versatility — Many combinations of designs are available for incoming lines and outgoing feeders. Royal standardized substations are engineered for economy and practicality in power distribution. They have been developed to provide for equipment protection and disconnecting.

Codes — Royal standardized substations conform to NEMA, AISC and REA standards.

Call Graybar for Complete Details

ROYAL ELECTRIC SUBSTATIONS — STANDARDIZED OR CUSTOM



Royal engineering results in neat, compact substations, with designed-in safety and accessibility.

Simplicity — Royal's standardized stations are designed for simplicity. Royal's basic standard arrangements meet exacting requirements. Yet each unit is compact, electrically and mechanically coordinated to secure fast, easy handling at the site, and to reduce field assembly costs.

Flexibility — Royal designs are planned for adaptability. As additional needs arise, bays and takeoff points can be added without rebuilding the original structure. When specified in an order, bolt holes are pre-punched in each chord member. These allow for ready enlargement of the supporting structure.

Structural Materials — Royal regularly furnishes either steel or high-strength aluminum alloy as framing for substations, in accordance with customer preferences.

Royal has been the leader in evaluating the various aluminum alloys for their suitability for substation components. As a result of these studies, Royal is highly experienced in the selection and fabrication of aluminum alloys best suited for conditions at each site. Royal aluminum substations have proved themselves in service. The light weight of the aluminum members simplify erection procedures and reduce construction costs. Shipping costs also are less, and savings can be realized on supports, footings and foundations.

Bills of Material — With standardized drawings, Royal also supplies bills of material. These indicate exactly those components which Royal is supplying. Royal Switches and Power Connectors, either bronze or aluminum, are quality-built for long, dependable service.

A typical Bill of Material for a multiple incoming line substation is shown in the last column.

Accessibility — Royal engineers have designed Royal substations with service and safety in mind. Every possible means for eliminating maintenance has been taken into account. Accessibility to all operating equipment has been planned in advance.

One Reliable Supplier — In the building of a new substation or the enlargement of an existing station, it is very advantageous to have all materials provided from a single dependable source. Royal makes a point of producing high-quality electrical equipment — and delivering it to the site on time and in prime condition.

CUSTOM SUBSTATIONS

Similar standards apply to Royal's individual designs for substations where special requirements,

unusual conditions or high current demands call for individual designs and special engineering.

Royal has total capability in handling exacting, custom requirements. Royal engineers are accustomed to working closely with clients in the development of original solutions to unusual problems of power distribution. Voltages range to 161 kv.

Royal also manufactures a full line of aluminum and bronze power connectors, special electrical devices, hook operated and group operated switches.

**Typical Bill of Material
INCOMING LINE STRUCTURE**

Description	QUANTITIES			
	23 kv	34.5 kv	46 kv	69 kv
Hot Galvanized Structural Steel for Assembly into a Substation Structure.....	Lot	Lot	Lot	Lot
Royal Type RVL Outdoor Group Operated Air-Break Switch. Three poles, three insulators per pole, vertical break. Terminals and rating as required. Complete with operating mechanism.....	1 Per Line	1 Per Line	1 Per Line	1 Per Line
Royal Type RVL Outdoor Group Operated Air-Break Switch. Three poles, three insulators per pole, vertical break. Terminals and rating as required. Complete with operating mechanism.....	1	1	1	1
Line or Station Type Lightning Arresters, rating as required.....	3	3	3	3
Outdoor Type Fuse Cutout complete with Fuse Tube and Link. Rating as required.....	3	3	3	3
Bus and Connecting materials as required.....	Lot	Lot	Lot	Lot

FEEDER STRUCTURE

Hot Galvanized Structural Steel for Assembly into a Substation Structure.....	(Lot)
Lightning Arresters 9 kv, Distribution Type.....	(3 Per Line)
Royal Outdoor Fused Bypass Disconnecting Switch, 15 kv, rating as required..	(3 Per Line)
Royal Type B Outdoor Hook Operated Disconnecting Switches, single pole, single throw, upright mounting. 15 kv, rating as required.....	(3 Per Line)
Bus and Connecting materials as required.....	(Lot)
Regulator Bypass Switches supplied as specified.....	3

GENERAL EQUIPMENT

Grounding material.....	(Lot)
Galvanized Chain Link Fence with Gates, as specified.....	(Lot)
Regulators, Transformers, Metering Equip., Oil Circuit Breakers, Oil Circuit Reclosers.....	(Supplied By Purchaser)

Call Graybar for Complete Details

GENERAL ELECTRIC AUTOMATIC VACUUM OR OIL CIRCUIT RECLOSERS



Type VIR vacuum circuit recloser



Type OR oil circuit recloser

Type VIR vacuum circuit reclosers and Type OR oil circuit reclosers are heavy-duty, Power Class Type for use in applications on distribution circuits within their voltage, continuous-current ratings, and interrupting capability. The interrupting ampere rating of the reclos-

ers must be at least as great as the maximum short-circuit current they may have to interrupt.

These high-speed reclosers reduce chance of line burn-down with fast interruption of higher current faults on the initial operation. Interruption time of Type VIR vacuum units is 2 cycles, Type OR oil units is 3 cycles.

Cont Current Rating (Amp)	Interrupting Ratings—RMS Symmetrical Amperes [§]									
	Model Vir-15.5-4000		Model VIR-15.5-12000		Model OR-A		Model OR-B		Model OR-F	
	Nominal Operating Voltage (Kv)									
	Pick-up (Amp)	2.4 thru 14.4	2.4 thru 4.8	Above 4.8 thru 14.4	2.4 thru 4.8	Above 4.8 thru 8.32	Above 8.32 thru 14.4	2.4 thru 14.4	2.4 thru 14.4	Above 14.4 thru 23
100	200	4000	6000	6000	6000	6000	6000	6000	6000	6000
140	280	4000	8400	8400	8400	8400	8400	8400	8400	8000
200	400	4000	12000	10000	12000	10000	8000	12000	12000	8000
280	560	4000	12000	10000	12000	10000	8000	16000	12000	8000
400	800	4000	12000	10000	12000	10000	8000	16000	12000	8000
560	1120	.....	12000	10000	12000	10000	8000	16000	12000	8000
800	1600	.....	.....	.....	.....	.....	.....	16000	12000	8000
1120	2240	.....	.....	.....	.....	.....	.....	16000	12000	8000

[§] Ratings are established on the basis of contact parting one-half cycle after initiation of the fault when the maximum total asymmetrical RMS current can be 1.51 times the tabulated symmetrical values (X/R ratio 14). Recloser contacts have a minimum opening time of 1/2 cycle.

Model No.	Rated Nominal Voltage Kv	Max. Design Voltage Kv	60-Cycle Withstand (Kv):		Impulse Withstand (Kv)	Ampere Capacity	Control Voltage (Volts)	List Price, Each*	Oil (Gal.)	Net Wt (Lb)	Approx Ship Wt (Lb)
			Dry, One Min	Wet, 10 Sec							

TYPE VIR—VACUUM—2400-14,400 VOLTS (LINE-TO-LINE); 60 CYCLES; THREE-PHASE

VIR-15.5-12000	14.4	15.5	50.0	45.0	110.0	560	115 a-c	\$3800	..	800	825
VIR-15.5-4000	14.4	15.5	50.0	45.0	110.0	400	115 a-c	\$3500	..	800	825

TYPE OR—OIL—2400-23,000 VOLTS (LINE-TO-LINE); 60 CYCLES; THREE-PHASE

OR-A	14.4	15.5	50.0	45.0	.....	560	230 a-c	\$3500	60	1800	1350
OR-B	14.4	15.5	50.0	45.0	.....	1120	230 a-c	3800	60	(incl oil)	(less oil)
OR-F	23	25.8	60.0	50.0	.....	1120	230 a-c	4800	65	1800	1550
										(incl oil)	(less oil)

* For estimating purposes only. For current price information, consult Graybar.

Application and ordering information for vacuum reclosers in Bulletin GEA-7813 for oil reclosers in Bulletin GEC-1735. Or call Graybar for complete details

GENERAL ELECTRIC VACUUM OR OIL POWER CIRCUIT BREAKERS

Type VIB vacuum power circuit breakers and Types FKD-14.4 and FKD-23 oil power circuit breakers are suitable for medium-duty applications on distribution circuits within their voltage and continuous-current ratings and interrupting capability. The interrupting current rating of the breakers must be at least as great as the maximum short-circuit current they may have to interrupt.

The new high-speed vacuum breakers, Type VIB, operate on 2-cycle (plus relay time) interruption of higher current faults; interrupting time of the oil breakers is 5 cycles.



Type VIB vacuum circuit breakers



Type FKD-14.4 oil circuit breakers

Breaker Type	Rating			Interrupting Time Cycles	List Price, Each*			Gallons of Oil	Net Wt in Lb for Item 1 †	Approx Ship. Wt in Lb for Item 1 ‡
	Kv	Amp at 60 Cycles	Interrupting		Non-Reclosing Non-Relayed Basic Breaker (Item 1)	Non-Reclosing Relayed Feeder Breaker (Item 2)	Reclosing Feeder Breaker (Item 3)			
TYPE VIB—VACUUM—2400-14,000 VOLTS (LINE-TO-LINE); 60 CYCLES; THREE-PHASE										
VIB-14.4	14.4	600	12000 [§] sym amp	2	\$4130	\$5190	\$5880	....	750	850
TYPES FKD-14.4 and FKD-23—OIL—14.4-23 KV, 600-1200 AMP, 250-500 MVA										
FKD-14.4-250	14.4	600	250 mva	5	\$3820	\$4880	\$5570	60	1555 (incl oil)	1300 (less oil)
FKD-14.4-500	14.4	1200	500 mva	5	4440	5500	6190	60	1650 (incl oil)	1400 (less oil)
FKD-23-500	23	1200	500 mva	5	5630	6690	7380	65	1750 (incl oil)	1500 (less oil)

* For estimating purposes only. For current price information, consult Graybar.

† The net weight of oil is 7.45 lb per gallon; oil shipping weight in drums is 9 lb per gallon.

‡ Add 300 lb for Item 2 and Item 3 weights.

§ The breaker is rated on a symmetrical basis and is capable of interrupting any asymmetry associated with the symmetrical rating with an X/R ratio of 17. (15,600-ampere total short-circuit current based on 1-cycle opening time and 1/2-cycle relay time.)

Application and ordering information for vacuum reclosers in Bulletin GEA-7813 for oil circuit breakers in Bulletin GEA-7755. Or call Graybar for complete details. The above items are subject to 20% Discount.

GENERAL ELECTRIC OUTDOOR POWER CIRCUIT BREAKERS

TYPE FKA, 14.4-46 KV—OIL BLAST, SUBTRANSMISSION TYPE, FRAMEWORK-MOUNTED

Type FKA oil circuit breakers are used for the rapid interruption of power circuits in the voltage range 14.4 to 46 kv inclusive.

For applications involving switching of static capacitor banks, cable circuits, or reactors, consult Graybar.

Breakers can be used in altitudes to 10,000 feet, and in temperatures down to -10 F for 24 hours or less. For lower temperatures, design details will differ slightly.

STANDARD RATINGS, BASIC BREAKERS

Type	Kv	Mva	Amperes	List Price Each*
FKA	14.4	1000	1200	\$10200
FKA	34.5	1500	1200	10500
FKA	46	1500	1200	12000

* For estimating purposes only. For current price information, consult Graybar.

Type FKA-34.5—1500 oil circuit breaker rated 1200 amperes, without terminal connectors.



Item	Breaker Type	Ratings				60-cycle Interrupting Rating		Short-time Rating Amperes		Withstand Test Kv		Total Oil Gallons Required	Net Wt Incl. Oil In Lb §	Ship. Wt Less Oil In Lb §	
		Kv	Amp at 60 Cycles	Maximum Design Kv	Minimum Operating Kv at Rated Mva †	Mva	Rms Total Amperes		Momentary	4-sec	60-cycle Dry				Impulse
							At Rated Voltage	Max Rating							
1	FKA-14.4-1000	14.4	1200	15.5	12	1000	40000	48000	77000	48000	50	110	265	6400	4525
2	FKA-34.5-1500	34.5	1200	38	23	1500	25000	38000	61000	38000	80	200	265	6400	4525
3	FKA-46-1500	46	1200	48.3	40	1500	19000	22000	35000	22000	105	250	360	7500	4925

§ Net weight of oil is 7.45 lb per gallon; shipping weight in drums is 9 lb per gallon.
 † Minimum voltage at which rated mva applies. At lower operating vol-

tages, the breaker interrupting rating in mva will be reduced and may be calculated on the basis of using the operating voltage and the listed "maximum" interrupting amperes.

TYPES FK AND FK-389, 14.4-69 KV—OIL BLAST, SUBTRANSMISSION TYPE, FRAMEWORK-MOUNTED

Types FK and FK-339 oil circuit breakers are used for the rapid interruption of power circuits in the voltage range of from 14.4 to 69 kv, inclusive.

For applications involving switching of static capacitor banks, cable circuits, or reactors, consult Graybar.

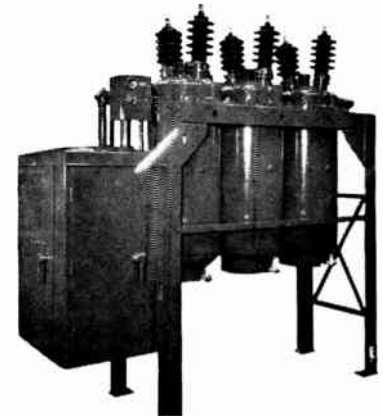
Breakers can be used in altitudes to 10,000 feet, and in temperatures down to -10 F for 24 hours or less. For lower temperatures, design details will differ slightly.

STANDARD RATINGS, BASIC BREAKERS

Type	Kv	Mva	Amperes	List Price Each*
FK	14.4	1000	1200	\$10200
FK	34.5	1500	1200	10500
FK	46	1500	1200	12000
FK	69	2500	1200	14500
FK	69	3500	1200	15000
FK-339	14.4	1500	3000	21000
FK-339	34.5	2500	2000	20500
FK-339	34.5	2500	3000	23000

* For estimating purposes only. For current price information, consult Graybar.

Type FK-34.5—1500 oil circuit breaker rated 1200 amperes, without terminal connectors.



Item	Breaker Type	Ratings				60-cycle Interrupting Rating		Short-time Rating Amperes		Withstand Test Kv		Total Oil Gallons Required	Net Wt Incl. Oil In Lb §	Ship. Wt Less Oil In Lb §	
		Kv	Amp at 60 Cycles	Maximum Design Kv	Minimum Operating Kv at Rated Mva †	Mva	Rms Total Amperes		Momentary	4-sec	60-cycle Dry				Impulse
							At Rated Voltage	Max Rating							
4	FK-14.4-1000	14.4	1200	15.5	12	1000	40000	48000	77000	48000	50	110	273	6800	5000
5	FK-339-14.4-1500	14.4	3000	15.5	12	1500	60000	72000	115000	72000	50	110	234	9425	7900
6	FK-34.5-1500	34.5	1200	38	23	1500	25000	38000	61000	38000	80	200	273	7000	5250
7	FK-339-34.5-2500	34.5	2000	38	24	2500	42000	60000	96000	60000	80	200	390	10980	8200
8	FK-339-34.5-2500	34.5	3000	38	24	2500	42000	60000	96000	60000	80	200	390	10980	8200
9	FK-46-1500	46	1200	48.3	40	1500	19000	22000	35000	22000	105	250	420	8500	5620
10	FK-69-2500	69	1200	72.5	60	2500	21000	24000	38000	24000	160	350	765	13350	8000
11	FK-69-3500	69	1200	72.5	60	3500	29000	31000	49000	31000	160	350	765	13350	8000

† Minimum voltage at which rated mva applies. At lower operating voltages, the breaker interrupting rating in mva will be reduced and may be calculated on the basis of using the operating voltage and the listed

"maximum" interrupting amperes.
 § Net weight of oil is 7.45 lb per gallon; the shipping weight, in drums, is 9 lb per gallon.

Application and ordering information in Bulletins GEA-6881 and GEA 7713.

Or consult Graybar for complete details.

The above items are subject to 20% Discount.

GENERAL ELECTRIC CONVENTIONAL DISTRIBUTION TRANSFORMERS

Single-phase, Type HS

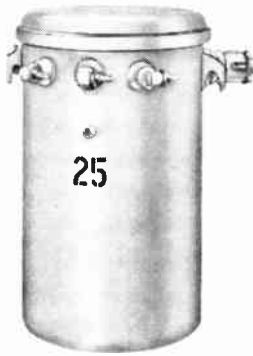
500 Kva and Below

Below 5 Kv 60 Cycles

Smaller, lighter, more efficient, lower priced—that's General Electric's Permalax® 65 distribution transformer. This higher-temperature (65C rise) transformer is another step in General Electric's continuing program to help you lower your distribution transformer total owning cost. For instance, here's how the new 25-kva, 12,470GrdY/7200-volt, no-tap unit affects your total owning cost:

- lower installation, maintenance, and changeout costs—more compact (8 inches shorter, 60 pounds lighter than the previous G-E design).
- lower overhead costs.
- lower purchase price—13% below that of the previous 25-kva unit.
- lower "built-in" costs—17% lower total losses than the initial Permalax transformer design, improved impedance and regulation.

DIMENSIONS



Typical Type HS oil-immersed transformer with high-voltage rating below 5000 volts

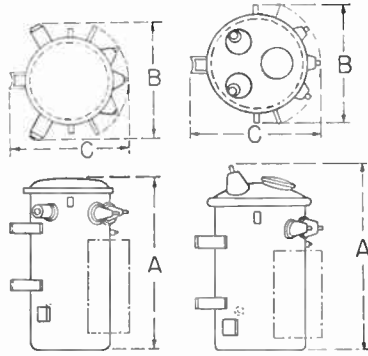


Fig. 1 Type HS with hv rating below 5000 volts

Fig. 2 Type HS with hv rating above 5000 volts

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim, Inches		
		East'n Zone	West'n Zone		A	B	C

2400/4160Y TO 120/240. NO TAPS

5	2701AB6505	\$108	\$110	148	24	22	19
10	2701AB7110	154	156	210	24	22	20
15	2701AB7115	211	215	250	25 1/2	22	20
25	2701AB7125	265	270	380	26 1/2	26	24
37.5	2701AB7137	370	377	600	32	27	26
50	2701AB7150	418	425	655	34	27	26
75	2701AB7175	616	627	940	40 1/2	30	30
100	2701AB7180	729	742	1085	46	30	30
167	2701AB8083	1091	1111	1350	45	31	29 1/2

2400/4160Y TO 120/240. TAPS: (4) 2 1/2% BELOW 2400

10	2701AC6510	\$172	\$175	210	24	22	20
15	2701AC6515	235	239	250	25 1/2	22	20
25	2701AC6525	295	300	380	26 1/2	26	24
37.5	2701AC6537	412	419	600	32	27	26
50	2701AC6550	465	473	655	34	27	26
75	2701AC6575	685	698	940	40 1/2	30	30
100	2701AC6580	810	825	1085	46	30	30
167	2701AC8083	1200	1222	1350	45	31	29 1/2
250	2701AD8485†	1636	1667	1690	49	34 1/2	29 1/2
333	2701AD8487†	1953	1990	2250	53 1/2	37 1/2	34 1/2
500	2701AD8488†	2572	2620	2970	56	42	38 1/2

† These transformers have two 2 1/2% taps above and below.

* Any common-carrier delivery point within confines of Continental U.S.A. east of eastern boundary lines of states of Montana, Wyoming, and Colorado, and all of counties of Union, Harding, Quay, Curry, DeBaca, Roosevelt, Lincoln, Chaves, Lea, Eddy, Otero, and Dona Ana in New Mexico will be considered Eastern Zone.

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim, Inches		
		East'n Zone	West'n Zone		A	B	C

2400/4160Y TO 240/480. TAPS: (2) 2 1/2% ABOVE AND BELOW

10	2708AD6510	\$172	\$175	210	24	22	20
15	2708AD6515	235	239	250	25 1/2	22	20
25	2708AD6525	295	300	380	26 1/2	26	24
37.5	2708AD6537	412	419	600	32	27	26
50	2708AD6550	465	473	655	37	27	25
75	2708AD6575	685	698	940	40 1/2	30	30
100	2708AD6580	810	825	1085	46	30	30
167	2708AD8083	1145	1166	1350	45	30	29 1/2
250	2708AD8485	1565	1594	1690	49	34 1/2	28
333	2708AD8487	1868	1903	2250	53 1/2	37	33
500	2708AD8488	2460	2506	2970	56	42	38 1/2

7200/12,470Y TO 120/240. NO TAPS

5	5501AB2505	\$108	\$110	187	30	17	19
10	5501AB2510	154	156	225	31	18	20
15	5501AB2515	211	215	266	32 1/2	18	20
25	5501AB2525	265	270	395	35	21	24
37.5	5501AB2537	370	377	575	41	23	26 1/2
50	5501AB2550	418	425	660	47	28	26
75	5501AB2575	616	627	932	49	30	30
100	5501AB2580	729	742	1065	54	30	31 1/2
167	5501AB3583	1091	1111	1360	52	31	29 1/2

7200/12,470Y TO 120/240. TAPS: (4) 2 1/2% BELOW 7200

5	5501AC2505	\$120	\$122	187	30	17	19
10	5501AC2510	172	175	225	31	18	20
15	5501AC2515	235	239	266	32 1/2	18	20
25	5501AC2525	295	300	395	35	21	24
37.5	5501AC2537	412	419	575	41	23	26 1/2
50	5501AC2550	465	473	660	47	28	26
75	5501AC2575	685	698	932	49	30	30
100	5501AC2580	810	825	1065	54	30	30
167	5501AC4083	1200	1222	1360	52	31	29 1/2
250	5501AD4885†	1636	1667	1650	53	34 1/2	31
333	5501AD4887†	1953	1990	2150	54	41	36 1/2
500	5501AD4888†	2572	2620	3010	61	42	38 1/2

7200/12,470Y TO 240/480. TAPS: (2) 2 1/2% ABOVE AND BELOW

10	5508AD2510	\$172	\$175	225	31	18	20
15	5508AD2515	235	239	266	32 1/2	18	20
25	5508AD2525	295	300	395	35	21	24
37.5	5508AD2537	412	419	575	41	22	26 1/2
50	5508AD2550	465	473	660	47	28	26
75	5508AD2575	685	698	932	49	30	30
100	5508AD2580	810	825	1065	54	30	31 1/2
167	5508AD4083	1145	1166	1350	52	30	29 1/2
250	5508AD4885	1565	1594	1600	53	34 1/2	29 1/2
333	5508AD4887	1868	1903	2070	54	41	34 1/2
500	5508AD4888	2460	2506	2860	61	42	36 1/2

7200/12,470Y TO 2400/4160Y. TAPS: (2) 2 1/2% ABOVE AND BELOW

50	5525AD1550	\$465	\$473	700	50	25	25
100	5525AD1580	810	825	1055	54	34	32
167	5525AD1583	1091	1111	1350	52	30	29 1/2
250	5525AD1585	1423	1450	1570	53	34 1/2	29 1/2
333	5525AD1587	1699	1731	2000	54	37	32 1/2
500	5525AD1588	2237	2279	2770	61	38	34 1/2

7620/13,200Y TO 120/240. NO TAPS

5	5901AB2505	\$108	\$110	187	30	17	19
10	5901AB2510	154	156	225	31	18	20
15	5901AB2515	211	215	266	32 1/2	18	20
25	5901AB2525	265	270	395	35	21	24
37.5	5901AB2537	370	377	575	41	23	26 1/2
50	5901AB2550	418	425	660	47	28	26
75	5901AB2575	616	627	932	49	30	30
100	5901AB2580	729	742	1065	54	30	30
167	5901AB3583	1091	1111	1360	52	31	29 1/2

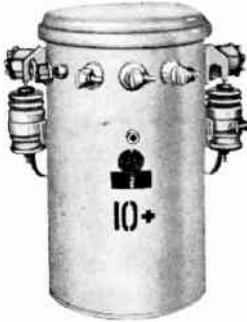
GENERAL ELECTRIC SELF-PROTECTED DISTRIBUTION TRANSFORMERS

Single-phase, Type HSBA

100 Kva and Below

15 Kv and Below 60 Cycles

CLASS A



COMPLETE WITH: Two h-v bushings, two magnetic-valve lightning arresters, 1v neutral gap, internal h-v fuses, 1v circuit breaker, overload signal lamp, and emergency overload reset device (5 kva and above)

Application

For use on delta and Y circuits.

DIMENSIONS

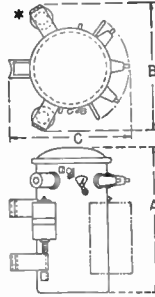


Fig. 1
Type HSBA, Class A, with h-v rating below 5000 volts
(*Class B-1 transformers, omit one h-v arrester)

Application

For use on solidly grounded common-neutral circuits with tank solidly grounded.

DIMENSIONS

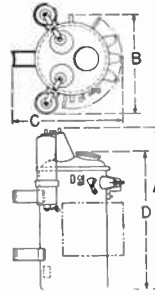
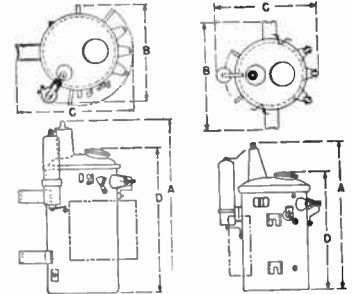


Fig. 2
Type HSBA, Class A, with h-v rating above 5000 volts

Fig. 3
Type HSBA, Class B-2, single-mounting position

Fig. 4
Type HSBA, Class B-3, two-mounting position

When ordering self-protected transformers consideration must be given to the application to determine the "class" desired. The table below spells out the difference, in features, of each of the three classes.

Class	H-V Bushings	Lighting Arresters	Gap on L-V Neutral Bushing	Clamp-Terminal Tank-Grounding Connector	Low-Voltage Neutral Link Clamped to Outside of Tank	Signal Light and Emergency Overload Reset Device
A	2	2	YES	NO	NO	YES— 5 kva and above
B-1	2	1	YES	NO	NO	YES— 5 kva and above
B-2	1	1	NO	YES	YES	YES—10 kva and above
B-3	Same as B-2 except 2 mounting positions.					

All classes have a low-voltage circuit breaker internal high-voltage fuse.

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. (In.)		
		East'n Zone	West'n Zone		A	B	C
2400/4160Y TO 120/240. NO TAPS—CLASS "A"							
5	2701AK8005	\$151	\$153	175	26	22	19
10	2701AK8010	197	200	225	25 1/2	22	20
15	2701AK8015	254	258	290	27	22	20
25	2701AK8025	308	313	400	27	26	24
37.5	2701AK8037	434	442	625	33 1/2	27	26
50	2701AK8050	482	491	720	36	27	26
75	2701AK8075	680	692	955	40 1/2	33 1/2	30
100	2701AK8080	835	850	1130	46	33 1/2	30
2400/4160Y TO 120/240. NO TAPS—CLASS "B-1"							
5	2701AK7005	\$141	\$143	175	26	22	19
10	2701AK7010 ^Δ	187	190	225	25 1/2	22	20
15	2701AK7015 ^Δ	244	248	290	27	22	20
25	2701AK7025 ^Δ	298	303	400	27	26	24
37.5	2701AK7037 ^Δ	424	432	625	33 1/2	27	26
50	2701AK7050	472	480	720	36	27	26
75	2701AK7075	670	682	955	40 1/2	33 1/2	30
100	2701AK7080	825	840	1130	46	33 1/2	30
2400/4160Y TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "A"							
10	2701AL8010	\$215	\$219	225	25 1/2	22	20
15	2701AL8015	278	283	290	27	22	20
25	2701AL8025	338	344	400	27	26	24
37.5	2701AL8037	476	485	625	33 1/2	27	26
50	2701AL8050	529	539	720	36	27	26
75	2701AL8075	749	763	955	40 1/2	33 1/2	30
100	2701AL8080	916	933	1130	46	33 1/2	30

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. (In.)		
		East'n Zone	West'n Zone		A	B	C
2400/4160Y TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "B-1"							
10	2701AL7010	\$205	\$208	225	25 1/2	22	20
15	2701AL7015	268	273	290	27	22	20
25	2701AL7025	328	334	400	27 1/2	26	24
37.5	2701AL7037	466	474	625	34 1/2	27	26
50	2701AL7050	519	528	720	38	27	26
75	2701AL7075	739	753	955	40 1/2	33 1/2	30
100	2701AL7080	906	923	1130	46	33 1/2	30
7200/12,470Y TO 120/240. NO TAPS—CLASS "A"							
5	5501AK4805	\$167	\$170	200	30	23	19
10	5501AK4810	213	217	250	31	24	20
15	5501AK4815	270	275	285	34	24	20
25	5501AK4825	324	330	400	36	25	24
37.5	5501AK4837	450	458	620	41	28	26
50	5501AK4850	498	507	720	47	28	26
75	5501AK4875	696	709	940	49	30	30
100	5501AK4880	851	867	1080	54	30	30
7200/12,470Y TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "A"							
5	5501AL4805	\$179	\$182	200	30	23	19
10	5501AL4810	231	235	250	31	24	20
15	5501AL4815	294	299	285	34	24	20
25	5501AL4825	354	360	400	36	25	24
37.5	5501AL4837	492	501	620	41	28	26
50	5501AL4850	545	555	720	47	28	26
75	5501AL4875	765	779	940	49	30	30
100	5501AL4880	932	949	1080	54	30	30
7620/13,200Y TO 120/240. NO TAPS—CLASS "A"							
5	5901AK4805	\$167	\$170	200	30	23	19
10	5901AK4810	213	217	250	31	24	20
15	5901AK4815	270	275	285	34	24	20
25	5901AK4825	324	330	400	35	25	24
37.5	5901AK4837	450	458	620	41	28	26
50	5901AK4850	498	507	720	47	28	26
75	5901AK4875	696	709	940	49	30	30
100	5901AK4880	851	867	1080	54	30	30
7620/13,200Y TO 120/240. TAPS: (2) 2 1/2% ABOVE AND BELOW—CLASS "A"							
5	5901AM4805	\$179	\$182	200	30	23	19
10	5901AM4810	231	235	250	31	24	20
15	5901AM4815	294	299	285	34	24	20
25	5901AM4825	354	360	400	35	25	24
37.5	5901AM4837	492	501	620	41	28	26
50	5901AM4850	545	555	720	47	28	26
75	5901AM4875	765	779	940	49	30	30
100	5901AM4880	932	949	1080	54	33 1/2	31 1/2

ΔTo order these transformers with tank isolating gaps, simply change the 7th and 8th digits from 70 to 72.
*See a preceding page for description of "Eastern Zone."

GENERAL ELECTRIC SELF-PROTECTED DISTRIBUTION TRANSFORMERS

Single-phase, Type HSBA

100 Kva and Below

15 Kv and Below 60 Cycles

Table with columns: Kva (Cont 65 C Rise), Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,470GRDY/7200 TO 120/240. NO TAPS—CLASS "B-2" (SINGLE MOUNTING POSITION)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,470GRDY/7200 TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "B-2" (SINGLE MOUNTING POSITION)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,470GRDY/7200 TO 120/240. NO TAPS—CLASS "B-3" (TWO MOUNTING POSITIONS)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,470GRDY/7200 TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "B-3" (TWO MOUNTING POSITIONS)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,200GRDY/7620 TO 120/240. NO TAPS—CLASS "B-2" (SINGLE MOUNTING POSITION)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,200GRDY/7620 TO 120/240. (2) 2 1/2% ABOVE AND BELOW—CLASS "B-2" (SINGLE MOUNTING POSITION)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,200GRDY/7620 TO 120/240. NO TAPS—CLASS "B-3" (TWO MOUNTING POSITIONS)

Table with columns: Kva (Cont 65 C Rise), Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,200GRDY/7620 TO 120/240. (2) 2 1/2% ABOVE AND BELOW—CLASS "B-3" (TWO MOUNTING POSITIONS)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,900GRDY/7970 TO 120/240. NO TAPS—CLASS "B-2"

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 13,900GRDY/7970 TO 120/240. NO TAPS—CLASS "B-3" (TWO MOUNTING POSITIONS)

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,000 TO 120/240. NO TAPS—CLASS "A"

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 12,000 TO 120/240. TAPS: (4) 2 1/2% BELOW—CLASS "A"

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 14,400/24,940GRDY TO 120/240.—CLASS "A" TAPS: 13,800/13,200/12,870/12,540

Table with columns: Kva, Cat. No., Net Price, Each* (East'n Zone, West'n Zone), Approx Net Wt (Lb), Approx Dim. (In.) (A, B, C). Title: 24,940GRDY/14,400 TO 120/240.—CLASS "B-2" TAPS: 13,800/13,200/12,870/12,540

†Furnished without signal light.

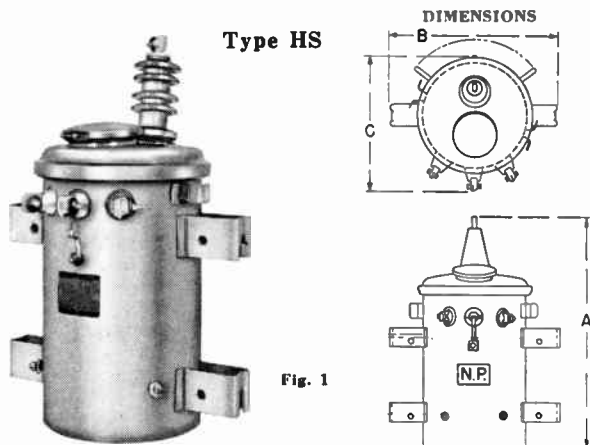
*See a preceding page for description of "Eastern Zone."

GENERAL ELECTRIC REC DISTRIBUTION TRANSFORMERS

Single-phase

25 Kva and Below

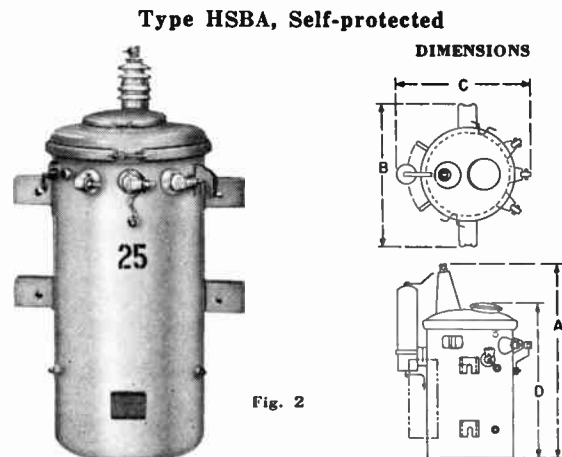
60 Cycles



Type HS

Fig. 1

For use on solidly grounded, common-neutral distribution systems where system and transformer protection is provided by the use of separately mounted distribution lightning arresters and cutouts.



Type HSBA, Self-protected

Fig. 2

For use on solidly grounded, common-neutral distribution systems. Contains h-v distribution arrester and bushing fuse and l-v circuit breaker.

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. Inches (Fig. 1)		
		East'n Zone	West'n Zone		A	B	C

12,470GRDY /7200 TO 120/240. NO TAPS

5	6801BB0105	\$105	\$106	160	30	20	15
7.5	6801BB0107	139	141	185	31	20	15
10	6801BB0110	151	153	225	31	22	17
15	6801BB0115	208	211	260	32	22	17
25	6801BB0125	262	266	385	35	25	21

12,470GRDY /7200 TO 120/240. TAPS: (4) 2½% BELOW

5	6801BC0105	\$117	\$119	160	30	20	15
7.5	6801BC0107	155	157	185	31	20	15
10	6801BC0110	169	172	225	31	22	17
15	6801BC0115	232	236	260	32	22	17
25	6801BC0125	292	297	390	36	25	21

13,200GRDY /7620 TO 120/240. NO TAPS

5	7401BB0105	\$105	\$106	160	30	20	15
7.5	7401BB0107	139	141	185	31	20	15
10	7401BB0110	151	153	225	31	22	17
15	7401BB0115	208	211	260	32	22	17
25	7401BB0125	262	266	385	35	25	21

13,200GRDY /7620 TO 120/240. TAPS: (2) 2½% ABOVE AND BELOW

5	7401BD0105	\$117	\$119	160	30	20	15
7.5	7401BD0107	155	155	185	31	20	15
10	7401BD0110	169	172	225	31	22	17
15	7401BD0115	232	236	260	32	22	17
25	7401BD0125	292	297	390	36	25	21

24,940GRDY /14,400 TO 120/240. NO TAPS

5	9001BB0105	\$115	\$117	160	33	20	15
7.5	9001BB0107	152	154	185	34	20	15
10	9001BB0110	164	167	220	34	22	17
15	9001BB0115	222	226	260	35½	22	17
25	9001BB0125	278	283	400	38	25	21

24,940GRDY /14,400 TO 120/240. TAPS: 12,870/13,200/13,800/12,540

5	9001BE0105	\$129	\$131	160	33	20	15
7.5	9001BE0107	169	172	185	34	20	15
10	9001BE0110	183	186	220	34	22	17
15	9001BE0115	248	252	260	35½	22	17
25	9001BE0125	310	315	400	39	25	21

* Any common-carrier delivery point within confines of Continental U.S.A. east of eastern boundary lines of states of Montana, Wyoming, and Colorado, and all of counties of Union, Harding, Quay, Curry, DeBaca, Roosevelt, Lincoln, Chaves, Lea, Eddy, Otero, and Dona Ana in New Mexico will be considered Eastern Zone.

†Furnished without signal light.

Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. Inches (Fig. 2)		
		East'n Zone	West'n Zone		A	B	C

12,470GRDY /7200 TO 120/240. NO TAPS—CLASS "B-3"

5	6801BK0605†	\$138	\$140	175	30	20	19
7.5	6801BK0507	180	183	210	31	21	21
10	6801BK0510	192	194	240	31	22	21
15	6801BK0515	248	252	300	34	22	22
25	6801BK0525	302	307	400	35	25	25

12,470GRDY /7200 TO 120/240. TAPS: (4) 2½% BELOW—CLASS "B-3"

5	6801BL0605†	\$150	\$152	175	30	20	19
7.5	6801BL0507	195	198	210	31	21	21
10	6801BL0510	209	212	240	31	22	21
15	6801BL0515	272	277	300	34	22	22
25	6801BL0525	332	338	405	36	25	24

13,200GRDY /7620 TO 120/240. NO TAPS—CLASS "B-3"

5	7401BK0605†	\$138	\$140	175	30	20	19
7.5	7401BK0507	180	183	210	31	21	21
10	7401BK0510	191	194	240	31	22	21
15	7401BK0515	248	252	300	34	22	22
25	7401BK0525	302	307	400	35	25	25

13,200GRDY /7620 TO 120/240. TAPS: (2) 2½% ABOVE AND BELOW—CLASS "B-3"

5	7401BM0605†	\$150	\$152	175	30	20	19
7.5	7401BM0507	195	198	210	31	21	21
10	7401BM0510	209	212	240	31	22	21
15	7401BM0515	272	277	300	34	22	22
25	7401BM0525	332	338	405	36	25	25

24,940GRDY /14,400 TO 120/240. NO TAPS—CLASS "B-3"

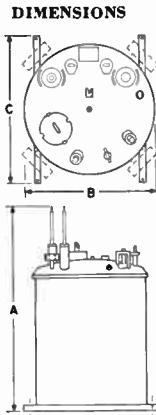
5	9001BK0605†	\$162	\$165	190	38	20	19
7.5	9001BK0507	206	209	220	38	21	21
10	9001BK0510	218	222	235	37	22	21
15	9001BK0515	276	281	300	38½	22	22
25	9001BK0525	332	338	415	39	25	25

24,940GRDY /14,400 TO 120/240. TAPS: 12,870/13,200/13,800/12,540—CLASS "B-3"

5	9001BN0605†	\$176	\$179	190	38	20	19
7.5	9001BN0507	224	228	220	38	21	21
10	9001BN0510	237	241	235	37	22	21
15	9001BN0515	302	307	300	38½	22	22
25	9001BN0525	364	370	415	39	25	25

GENERAL ELECTRIC LEAPFROG RESIDENTIAL SUBWAY TRANSFORMERS

Single-phase, Type HS 100 Kva and Below 15 Kv and Below 60 Cycles
 With current-limiting fuse and loop-feed/load-break switch



Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. (In.)		
		East'n Zone	West'n Zone		A	B	C

4160 Grd Y/2400 TO 240/120. NO TAPS

15	3507PR5515	\$614	\$614	500	46	20	25
25	3507PR5525	649	649	575	46	20	25
37 1/2	3507PR5537	752	752	800	52	23	25
50	3507PR5550	819	819	925	53	23	25
75	3507PR5575	1127	1127	1050	53	29	25
100	3507PR5580	1286	1286	1200	53	27	27

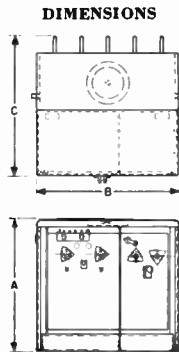
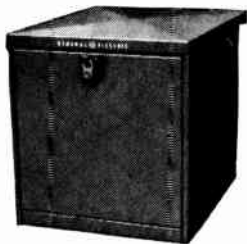
12,470 Grd Y/ 7200 TO 240/120. NO TAPS

15	6807PR5515	614	614	500	46	20	25
25	6807PR5525	649	649	575	46	20	25
37 1/2	6807PR5537	752	752	845	52	23	25
50	6807PR5550	819	819	925	53	23	25
75	6807PR5575	1127	1127	1050	53	29	25
100	6807PR5580	1286	1286	1200	53	27	27

Note: All ratings for use in a 3 foot inside diameter hole liner. Optional accessories include primary cable receptacles, hole liners, grate covers, baffles and secondary terminators.

GENERAL ELECTRIC LO-PROFILE™ PAD-MOUNTED TRANSFORMERS

Single-phase, Type HSB 100 Kva and Below 15 Kv and Below 60 Cycles
 (Dead-front design) with internal four-position loop-feed/load-break switch, high-voltage oil-immersed fuse, secondary breaker (less signal light) and two Elastimold† bushings



Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. (In.)		
		East'n Zone	West'n Zone		A	B	C

4160 Grd Y/2400 TO 240/120. NO TAPS

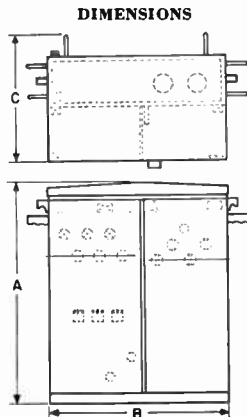
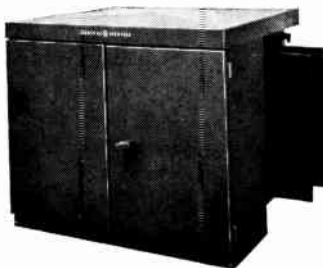
15	3507PK8515	\$493	\$502	670	32	32	29.5
25	3507PK8525	552	562	720	32	32	29.5
37 1/2	3507PK8537	699	712	875	32	32	31
50	3507PK8550	753	767	965	32	32	31
75	3507PK8575	925	942	1185	32	32	33.5
100	3507PK8580	1115	1136	1325	32	32	39.2

12,470 Grd Y/7200 TO 240/120. NO TAPS

15	6807PK8515	512	521	670	32	32	29.5
25	6807PK8525	562	572	720	32	32	29.5
37 1/2	6807PK8537	710	723	875	32	32	31
50	6807PK8550	766	780	965	32	32	31
75	6807PK8575	946	963	1185	32	32	33.5
100	6807PK8580	1141	1162	1325	32	32	39.2

GENERAL ELECTRIC COMPAD™ TRANSFORMERS

Three-phase, Type HT 500 Kva and Below 15 Kv and Below 60 Cycles
 With internal four-position loop-feed/load-break switch and internal fuses



Kva (Cont 65 C Rise)	Cat. No.	Net Price, Each*		Approx Net Wt (Lb)	Approx Dim. (In.)		
		East'n Zone	West'n Zone		A	B	C

4160 Delta TO 208Y/120. TAPS: (4) 2 1/2 % BELOW

75	3304UF0275	\$1548	\$1577	2300	47	49	41
112 1/2	3304UF0281	1917	1953	2500	47	49	43
150	3304UF0282	2081	2120	2800	51	49	48
225	3304UF0284	2808	2861	3300	47	54	48
300	3304UF0286	3235	3296	3700	51	65	48
500	3304UF0288	4479	4564	5300	62	65	51

12,470 Delta TO 208Y/120. TAPS: (4) 2 1/2 % BELOW

75	6404UF0275	1573	1602	2300	47	49	41
112 1/2	6404UF0281	1936	1972	2500	47	49	43
150	6404UF0282	2100	2139	2800	51	49	48
225	6404UF0284	2882	2936	3300	47	54	48
300	6404UF0286	3270	3332	3700	51	65	48
500	6404UF0288	4479	4564	5300	62	65	51

*See a preceding page for designation of "Eastern Zone."
 †Trade-mark of ESNA.

GENERAL ELECTRIC ML-32 STEP-VOLTAGE REGULATORS

Single-phase 60 Cycles

General Electric ML-32 regulators, the culmination of over 50 years' experience with regulator design, offer accurate, dependable, and economical automatic voltage regulation in ratings particularly suitable for branch and rural circuits.

With the exception of the 13,800-volt ratings, all regulators listed below are insulated for the corresponding Y voltages. When three regulators are operated in a 3-phase, Y-connected bank, the neutral of the regulator bank must be solidly tied to the system neutral.



Pole Type



Station Type

Kva	Cat. No.	Net Price, Each	Load Amperes at Raise and Lower 10% Regulation	Approx Wt in Lb Including Oil		Gal 10C* Oil† Net at 7.45 Lb per Gal.	Approximate Dimensions Over-all in Inches		Type
				Ship.	Net		Projected Floor Space	Over-all Height	
2500 Volts (For 2500, 2400-Volt Circuits) (4330Y Volts) (60 Kv BIL)									
25	29D1800	\$1387	100	1105	1005	53	23.5 x 27.5	61	Pole
50	29D1802	1676	200	1440	1340	66	26.5 x 35	68.5	Pole
75	29D1804	2064	300	1675	1575	68	30 x 33	68.5	Pole
100	29D1805	2366	400	2325	2225	100	31.5 x 40	77.5	Station
125	29D1806	2661	500	2615	2515	98	37 x 34.5	79.5	Station
167	29D1807	3089	668	2615	2515	98	37 x 34.5	79.5	Station
250	29D1836	4333	1000	4825	4700	180	39 x 42.5	123	Station
312.5	29D1837	4809	1250	4825	4700	180	39 x 42.5	123	Station
333	29D1838	5043	1332	5500	5340	185	41 x 35.5	132	Station
416.3	29D1839	5597	1665	5500	5340	185	41 x 35.5	132	Station
5000 Volts§ (For 5000, 4800, 4330, 4160, 2500, 2400-Volt Circuits) (8660Y Volts) (75 Kv BIL)									
25	29D1810	\$1387	50	1105	1005	53	23.5 x 27.5	61	Pole
50	29D1811	1676	100	1290	1190	50	23.5 x 31	64	Pole
100	29D1814	2366	200	1890	1790	69	33 x 39	71.5	Pole
125	29D1815	2661	250	2025	1925	70	31.5 x 32	74.5	Station
167	29D1816	3089	334	2730	2630	106	31.5 x 40	81.5	Station
250	29D1846	4333	500	3650	3490	112	44 x 42	81.5	Station
312.5	29D1847	4809	625	3650	3490	112	44 x 42	81.5	Station
333	29D1848	5043	666	3650	3490	112	44 x 42	81.5	Station
416.3	29D1849	5597	833	⊕	⊕	⊕	⊕	⊕	Station
7620 Volts¶ (For 13,800Y/7960, 13,200Y/7620, 12,470Y/7200, 11,900Y/6900-Volt Circuits) (95 Kv BIL)									
11.4	29D1819	\$1102	15	1105	1005	53	23.5 x 27.5	61	Pole
19.1	29D1820	1460	25	1105	1005	53	23.5 x 27.5	61	Pole
38.1	29D1821	1634	50	1290	1190	58	23.5 x 27.5	64	Pole
57.2	29D1822	1766	75	1380	1280	56	29.5 x 35	64	Pole
76.2	29D1823	1993	100	1490	1390	55	29.5 x 35	67	Pole
114.3	29D1824	2472	150	1945	1845	68	34 x 35	71.5	Pole & Station
167	29D1825	3074	219/241 ⊙	2415	2315	75	35 x 35	77.5	Station
167	29D1885	3074	219/241 ⊙	2415	2315	75	37 x 39	77.5	Pole & Station
250	29D1826	3873	328/361 ⊙	3165	3065	106	39 x 34.5	87.5	Station
333	29D1828	5628	438/482 ⊙	4035	3935	123	43.5 x 43	91.5	Station
416.3	29D1829	6247	548/600 ⊙	4035	3935	123	43.5 x 43	91.5	Station
13,800 Volts (Suitable for 13,800 or 12,000-Volt Circuits at Rated Amperes) (95 Kv BIL)									
34.5	29D1830	\$1720	25	1655	1555	75	30 x 35	74	Pole
69.0	29D1831	2214	50	1655	1555	75	30 x 35	74	Pole
138	29D1832	2863	100	2280	2180	80	31.5 x 32	79	Station
14,400 Volts (For 24,940-Volt Grd-Y Circuits. Also 7200/12,470 Grd-Y Circuits at Rated Amperes) (150 Kv BIL)									
36	29D1840	\$2764	25	2135	2035	110	28.5 x 36	87	Station
72	29D1841	2984	50	2135	2035	110	28.5 x 36	87	Station
144	29D1842	3256	100	2900	2800	116	33.5 x 40	92	Station
288	29D1843	5051	200	3900	3780	126	36.5 x 43	93	Station
19,920 Volts (For 34,500-Volt Grd-Y Circuits) (150-Kv BIL)									
50	29D1887	\$2875	25.1	⊕	⊕	⊕	⊕	⊕	Pole
100	29D1888	3217	50.2	⊕	⊕	⊕	⊕	⊕	Pole
200	29D1889	4140	100.4	3550	3415	139	33 x 41.5	91	Station
333	29D1890	6014	167	5044	4944	189	44.5 x 48	109	Station
400	29D1891	6964	201	5044	4944	189	44.5 x 48	109	Station

Note: The control cabinet is designed to permit mounting either on the regulator or separately.

† All Type ML-32 regulators are shipped oil-filled.

§ All standard 5000-volt regulators are furnished with taps in the control circuit to operate at 2500 and 4330 volts at rated current. No reduction in price for the omission of this feature.

¶ All standard 7620-volt regulators can be operated at 7960, 7620, 7200, 6900, 5000, 4330, and 2500 volts at rated amperes. Shipped connected for 7200-volt operation.

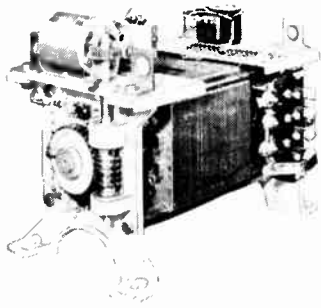
⊙ These regulators are capable of supplying current corresponding to rated KVA, up to a maximum current of 600-amperes, when operated at 6900/11950Y volts.

⊕ For weights and dimensions contact Graybar.

*Registered trade-mark of General Electric Company.

GENERAL ELECTRIC INDUCTROL® VOLTAGE REGULATORS

Single- and Three-phase



General Electric's Inductrol voltage regulators are induction devices designed for industrial use. They can be used to accurately hold constant load voltage when supplied from fluctuating supply voltage or, to provide a variable load or utilization voltage from a relatively constant supply voltage. Either of these functions can be automatically controlled, or can be manually controlled by means of motor drive or hand cranks.

They consist basically of a laminated steel stator, on which is wound the regulating (series) winding, and a laminated steel rotor on which is wound an exciting (shunt) winding. By changing the position of the rotor, the magnitude of the voltage induced in the series winding is controlled, adding or subtracting from the supply voltage to produce the required output voltage.

FEATURES

Higher reliability because there are no brushes to wear out or to cause maintenance trouble. Simple and rugged, the induction principle of operation provides an infinite number of voltage steps.

The Inductrol voltage regulator does not introduce harmful wave-form distortion.

Has no effect on the output voltage of Inductrol voltage regulators.

Voltage automatically held to within $\pm 10\%$ band width. Compensating controls on the Inductrol voltage regulator make it unnecessary to continually reset voltage level.

Electrically, the Inductrol voltage regulator will withstand up to 25 times normal currents.

Will withstand a 100% overload for one hour, while maintaining excellent long-life operating characteristics.

TYPICAL APPLICATIONS FOR INDUCTROL VOLTAGE REGULATORS

- | | |
|---------------------------|-----------------------------|
| TV Transmitters | Air Conditioning |
| Radio and Radar Equipment | Simulated Flight Trainers |
| Induction Heaters | Calculators |
| Lighting | Office Machines |
| Radar | X-Ray Equipment |
| Resistance Heaters | Laboratory Equipment |
| Rectifiers | Welders |
| Crane Control | Film Processing |
| Heat Treating | Wire Enameling |
| Electrolytic Processes | Equipment Testing |
| Blueprinting | Instrument Calibration |
| Spectrographs | Carrier Telephone Equipment |
| Corona Detection | Motor Speed Controller |
| Photoengraving | |

Note: Information on Inductrol voltage regulators for other ranges of regulation are available on request.

AUTOMATICALLY OPERATED INDUCTROL VOLTAGE REGULATORS

These regulators are ideally suited for maintaining constant voltage on long secondary runs supplying lighting or power, especially where wide variations in load occur on various circuits, as in mills and factories, large office and apartment buildings. Where lighting and power are both supplied from the same bus, these Inductrols will compensate for change in power load, maintaining illumination at normal level.

Standard automatic Inductrol regulators are adjusted at the factory to hold output voltage within band width of $\pm 1\%$. Within $\frac{1}{2}$ second after voltage goes outside this band width, correction is initiated by the Inductrol regulator. Since the time of operation from the maximum lower position to the maximum raise position is 45 seconds, the time required to make a correction depends on the magnitude of the voltage deviation. On the average feeder, the majority of corrections are completed in approximately one second.

Automatically operated Inductrol voltage regulators can also be used for the following: a-c voltage control; a-c current control; rectifier control for d-c output voltage; rectifier control for d-c output current; temperature control; electronic control for mobile applications; vernier control for wide-range induction regulators; process control for cyclic industrial processes.

Inductrol voltage regulators provide a convenient source of variable voltage for the calibration of meters, relays, and other instruments, also for testing vacuum tubes.

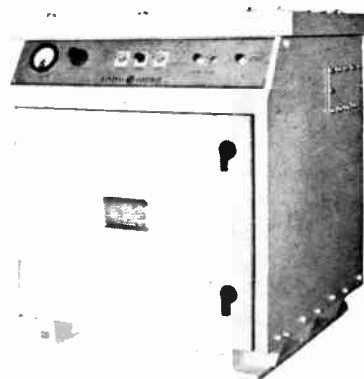
When used in circuits supplying high-voltage transformers, they facilitate the control of the applied voltage while tests on insulating materials are being made.

These Inductrol voltage regulators offer smooth control of light for such applications as theater ceilings, photo-printing, blueprinting, etc.

Current-transformer and oil-circuit-breaker testing combined with high-current transformers provide variable current for testing current transformers, tripping mechanisms of oil circuit breakers, and the current-carrying capacity of contacts.

They are particularly valuable for industrial processes, such as the control of resistance furnaces and induction furnaces.

They may be used wherever a smoothly variable voltage source is needed. Inductrol regulators for these applications are usually arranged for 100% raise and 100% regulation: that is, they vary the supply voltage uniformly over a range from 0 to 200% of normal.



Shown above is a typical Inductrol Voltage Regulator.

Call Graybar for Complete Details

GENERAL ELECTRIC DRY-TYPE GENERAL-PURPOSE TRANSFORMERS

Types B, QM, M, and QH

TYPE B

RATINGS—KVA—.025 through 3, single-phase. Frequency—50/60 cycles.



APPLICATION—Type B transformers rated 2 kva and below are designed for Step Down service only. If transformers are for Step Up service, the order must so specify.

INSTALLATION—UL listed for indoor installation; also suitable for outdoor installation. Open-end slot on bottom, two slots on top for mounting on walls or panels.

TYPE QM—Single Phase

RATINGS—KVA—5 through 25. Frequency—60 cycles. Some units designed for 50/60 cycle operation.



INSTALLATION—All applicable ratings are UL listed for indoor or outdoor installation. Key-hole mounting slots for easy mounting on walls or panels. Lifting groove to facilitate handling.

TYPE M—Three Phase

RATINGS—KVA—3 through 15. Frequency 60 cycles.



INSTALLATION—All applicable ratings are UL listed for indoor or outdoor installation. Key-hole mounting slots on top and open end slots on bottom for mounting on walls or panels. Lifting eyes facilitate handling.

TYPE QH

RATINGS—KVA — 37½ through 167, single-phase. 30 through 1000, three-phase. Frequency 60 cycles.



INSTALLATION—Type QH transformers are designed for indoor installation. Modified units are available for protected outdoor use. Where outdoor use is expected, care should be exercised that the models used are those listed for protected outdoor service. All units are suitable for floor or platform mounting. Units through 75 kva also have built-in provisions for wall mounting with key-hole slots at the top. External lifting eyes and provisions for easy fork truck handling are also built-in.

INSULATION SYSTEM

ASA standards state that the average temperature rise of the winding shall not exceed the following when operated in a 40 C ambient:

- 55 C rise system— 55 C temperature rise
- 115 C rise system—115 C temperature rise
- 150 C rise system—150 C temperature rise

All units meet UL limitations on maximum surface temperature rise.

Sound Level in Decibels†

Kva	General Electric Average	General Electric Maximum	ASA Standard
0-5	30	33	40
6-9	34	37	40
10-25	36	40	45
26-50	42	45	45
51-150	42	45	50
151-225	42	45	55
226-300	45	48	55
301-500	51	55	60

†Measured per ASA-C89.1—1961—2.7.3-4.

CONSTRUCTION
Types B, QM, and M

Core and coils are contained within a nonventilated weather-proof enclosure. The single-phase Type QM units feature encapsulated core and coils.

Type QH

Units are enclosed in a drip-proof metal enclosure with natural-draft ventilation. Core-and-coil assembly is mounted on rubber isolation pads to reduce noise.

INDUSTRY STANDARDS

Applicable ratings (through 10 kva) of all QHT transformers are UL listed suitable for installation with all types of standard cable, including 60 C rated cable. In addition, each transformer meets all ASA C89.1-1961 and NEMA ST 1-4-1961 requirements.

For further information ask Graybar for GEC-1090.

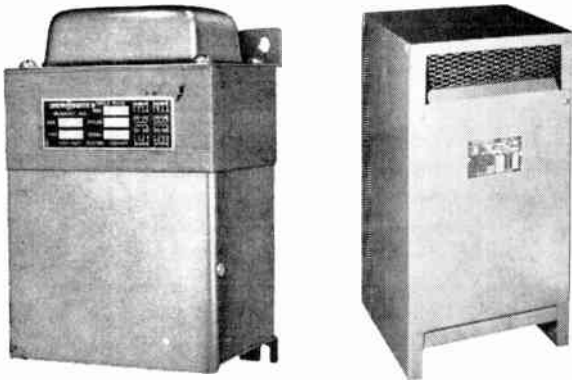
SINGLE-PHASE—600 VOLTS AND BELOW

Kva	Model No.	List Price, Each	Mounting F = Floor W = Wall	Approx. Dim. (In.)			Approx. Net Wt. (Lb)
				H	W	D	
240 x 480 VOLTS PRIMARY SECONDARY 120/240 VOLTS							
50/60 Cycles, Type B, Indoor/Outdoor							
.025	9T51Y1	\$14.05	W	6¾	3¾	3	2¾
.050	9T51Y2	16.10	W	6¾	3¾	3	3
.075	9T51Y3	18.80	W	7½	3¾	3	3¾
.100	9T51Y4	20.55	W	6¾	3¾	3¾	5
.150	9T51Y5	24.20	W	7½	3¾	3¾	7
.200	9T51Y6	26.70	W	7½	3¾	3¾	7½
.250	9T51Y7	29.00	W	7½	3¾	3¾	7½
.500	9T51Y8	40.90	W	8¾	4¾	4¾	11½
.750	9T51Y9	51.45	W	8¾	4¾	4¾	14½
1	9T51Y10	66.00	W	9½	5½	4¾	21
1.5	9T51Y11	80.50	W	11½	5½	4¾	28
2	9T51Y12	97.65	W	12½	5½	4¾	37
3	9T51Y13	136.50	W	13	6¾	5½	49
60 Cycles, Type QM, Indoor/Outdoor							
5	9T21B1004	\$145.00	W	14¾	10¾	9½	82
7.5	9T21B1005	200.00	W	16¾	12½	10¾	114
10	9T21B1006	250.00	W	17¾	12½	11¾	144
15	9T21B9103	348.00	W	18¾	14¾	12¾	215
25	9T21B9104	536.00	W	19¾	16¾	14¾	325
60 Cycles, Type QH, Indoor							
37.5	9T23A2662	\$685.00	F-W	31	20¼	19¼	325
50	9T23A2663	825.00	F-W	33	20¼	19¼	430
60 Cycles, Type QH, Indoor, (6) 2½ % Taps, 2 Above and 4 Below 480 Volts							
37.5	9T23A2672	\$717.00	F-W	31	20¼	19¼	325
50	9T23A2673	864.00	F-W	33	20¼	19¼	430
75	9T23A2674	1108.00	F-W	36¾	22½	23½	675
100	9T23A2675	1312.00	F	42	26½	25	875
167	9T23A2676	2336.00	F	43¾	29	29½	1375
60 Cycles, Type QH, Protected Outdoor, (6) 2½ % Taps, 2 Above and 4 Below 480 Volts							
37.5	9T23A2672G12	\$752.00	F-W	31	20¼	19¼	325
50	9T23A2673G12	899.00	F-W	33	20¼	19¼	430
75	9T23A2674G12	1143.00	F-W	36¾	22½	23½	675
100	9T23A2675G12	1362.00	F	42	26½	25	875
167	9T23A2676G12	2386.00	F	43¾	29	29½	1375
50 Cycles, Type QM, Indoor/Outdoor							
5	9T21B1055	\$158.00	W	14¾	10¾	9½	89
7.5	9T21B1056	219.00	W	16¾	12½	10¾	124
10	9T21B1057	273.00	W	17¾	12½	11¾	159
15	9T21B9133	382.00	W	18¾	14¾	12¾	232
25	9T21B9134	563.00	W	19¾	16¾	14¾	357

Model No's with Prefix 9T51Y — Discount 37%; with Prefix 9T21 or 9T23 — Discount 51%

HEVI-DUTY DRY TYPE TRANSFORMERS

FOR POWER AND LIGHTING CIRCUITS
Single Phase Transformers



TYPE SI

Insulating Dry Type 600 Volts Max.—Single Phase
These transformers have dual primary and dual secondary windings and can also be used for 240 volt 3-wire services. Other voltage and frequency combinations available upon request.

240/480—120/240 Volts 50/60 Hz
Class "A" 55° C Rise

KVA	Cat. No.	Dimensions, In.			List Each
		H.	W.	D.	
.050	P-1A50	5 5/8	4 1/8	3 1/2	\$11.55
.075	P-1A75	5 7/8	4 1/8	3 1/2	13.39
.100	P-1A100	6 1/4	4 1/8	3 1/2	14.70
.150	P-1A150	6 7/8	4 1/8	3 1/2	17.32
.250	P-1A250	7 5/8	4 3/4	4	20.74

240/480—120/240 Volts 60 Hz
Class "F" 115° C Rise

KVA	Cat. No.	H.	W.	D.	List Each
.500	P-1F500	8	4 3/4	4	29.30
.750	P-1F750	8 1/2	7 3/8	5	36.75
1.0	S-1F1	9 1/4	7 3/8	5	47.25
1.5	S-1F1.5	10 7/8	7 3/8	5	57.75
2.0	S-1F2	11 3/8	9 1/8	6 3/8	70.09
3.0	S-1F3	12 5/8	9 1/8	6 3/8	105.00
5.0	S-1F5	13 1/4	9 1/4	8 1/2	152.25
7.5	S-1F7	15 1/8	9 1/4	8 1/8	210.00
10	S-1F10	17 1/2	9 1/4	8 1/2	262.50

Class "F" 115° C Rise
480—120/240 Volts, Two 5% FCBN Taps 60Hz

KVA	Cat. No.	H.	W.	D.	List Each
3.0	S-2F3	12 5/8	9 1/8	6 3/8	105.00
5.0	S-2F5	13 1/4	9 1/4	8 1/8	152.00
7.5	S-2F7	15 1/8	9 1/4	8 1/8	210.00
10	S-2F10	17 1/2	9 1/4	8 1/2	262.00

Class "H" 150° C Rise
240/480—120/240 Volts, Two 2 1/2% FCAN and Four 2 1/2 FCBN Taps 60Hz

KVA	Cat. No.	H.	W.	D.	List Each
15	S-5H15	23 1/2	15	14	365.00
20	S-5H20	24	19	16	483.00
25	S-5H25	24	19	16	563.00
30	S-5H30	32	18 1/2	17	708.00
37.5	S-5H37	28	15	16	719.00
50	S-5H50	32	18 1/2	17	866.00
75	S-5H75	36	18 1/2	18	1,082.00
100	S-5H100	39 1/2	21	19	1,281.00

1. Ratings up to and including 10 KVA have UL approval and are suitable for outdoor installation.
2. Add 10% for 50 cycles on all ratings not shown as 50/60 cycles.
3. Built in accordance with NEMA Specifications.
4. For other voltage ratios, special taps, frequency outdoor enclosures and other types of insulation, consult the factory for pricing.

TYPE SI BUCK & BOOST TRANSFORMERS

Single Phase Insulating Dry Type 120/240 —
12/24 Volts — 60 Hz
Class "A" 55° C Rise

KVA	Cat. No.	Dimensions, In.			List Each
		H.	W.	D.	
.050	P-19A50	5 5/8	4 1/8	3 1/2	\$15.71
.100	P-19A100	6 1/4	4 1/8	3 1/2	20.18
.150	P-19A150	6 7/8	4 1/8	3 1/2	22.27
.250	P-19A250	7 5/8	4 3/4	4	25.20

Class "F" 115° C Rise

KVA	Cat. No.	H.	W.	D.	List Each
.500	P-19F500	8	4 3/4	4	32.63
.750	P-19F750	8 1/2	7 3/8	5	43.05
1.0	S-19F1	9 1/4	7 3/8	5	52.70
1.5	S-19F1.5	10 7/8	7 3/8	5	64.39
2.0	S-19F2	11 3/8	9 1/8	6 3/8	86.10
3.0	S-19F3	12 5/8	9 1/8	6 3/8	115.76
5.0	S-19F5	15 1/8	11 3/4	8	178.50

For 50 cycles rating, add 10% to above prices.
Complete Hevi-Duty catalog furnished on request.
120/240 — 16/32V. 1 Ph. 60 Hz ratings also available.

TYPE SBW AND SZO MACHINE TOOL CONTROL TRANSFORMERS



Single Phase—Triple Voltage, Dual Frequency
Rating

240/480—120 Volts, 60 Hz
230/460—115 Volts, 50/60 Hz
220/440—110 Volts, 50/60 Hz

KVA	Type	Cat. No.	Dimension, In.			List Each
			H.	W.	D.	
.025	SBW	W025	2 3/4	3	2 9/16	\$ 9.40
.050	SBW	W050	3 1/4	3	2 9/16	12.10
.075	SBW	W075	3 3/4	3	2 9/16	14.20
.100	SBW	W100	4	3 3/8	2 7/8	16.10
.150	SBW	W150	4 3/4	3 3/4	3 3/16	18.70
.200	SBW	W200	4 1/2	4 1/2	3 13/16	22.15
.250	SBW	W250	5	4 1/2	3 13/16	27.20
.300	SBW	W300	5 3/8	4 1/2	3 13/16	29.35
.350	SBW	W350	6	4 1/2	3 13/16	31.65
.500	SBW	W500	6	5 1/4	4 5/8	35.90
.750	SBW	W750	7 5/8	5 1/4	4 5/8	44.30
1.00	SBW	W1000	7	6 3/8	5 5/8	54.50
1.50	SZO	D45780	8 3/4	6 3/4	6 1/4	74.00
2.00	SZO	D45781	10	6 3/4	6 1/4	95.50
3.00	SZO	D48554	9 5/8	9	8	140.00
5.00	SZO	D45782	12	9	8	202.00

575/460/230—115/97 Volts, 50/60 Hz

KVA	Type	Cat. No.	H.	W.	D.	List Each
.150	SBW	W150*	5 1/2	3 3/4	3 3/4	34.70
.250	SBW	W250*	5 3/4	4 1/2	3 13/16	48.30
.500	SBW	W500*	6 5/8	5 1/4	4 5/8	58.00
.750	SBW	W750*	8 7/8	5 1/4	4 5/8	82.00
1.00	SBW	W1000*	8 3/8	6 3/8	5 5/8	87.50
1.50	SZO	D71948	9 5/8	6 3/4	6 1/4	109.00
2.00	SZO	D72629	9 3/8	9	8	124.00

*Form A.

Ordering Information

The following information is necessary:

1. Type, 2. KVA rating, 3. Primary and secondary voltages, phase, and frequency, 4. Ambient conditions (temperature, humidity, and any other special atmospheric conditions).

The Above Items Are Subject to 36% Discount

HEVI-DUTY DRY TYPE TRANSFORMERS

FOR POWER AND LIGHTING CIRCUITS

Indoor and Outdoor
Three Phase Transformers



TYPE 31F AND TYPE 31F4

Insulating Dry Type 600 Volts—3 Phase, 60 Hz

Primary Voltage—480 Volts Delta
Secondary Voltage—208Y/120 Volts, 4-Wire or
240 Volts Delta, 3-Wire

KVA	Cat. No.	Dimens, In.			List Each
		H.	W.	D.	
Type 31F4—480 Delta Primary Voltage, 208Y/120 Secondary Voltage, 4-Wire Class "F" 115° C Rise Insulated Units with Two 5% FCBN Taps					
6	T-1F6	18	12	8	\$ 221.00
9	T-1F9	23	9 1/4	8 1/4	296.00
15	T-1F15	25 1/2	9 1/4	8 1/4	481.00

Class "F" 115° C Rise Insulated Units with Two 2 1/2% FCAN and Four 2 1/2% FCBN Taps

37 1/2	T-2F37	28	20 1/2	16	888.00
50	T-2F50	32	25	17	1,128.00

Class "B" 80° C Rise Insulated Units with Two 2 1/2% FCAN and Four 2 1/2% FCBN Taps

30	T-2B30	28	21	16	780.00
45	T-2B45	32	25	17	1,085.00
75	T-2B75	40	27	17	1,674.00
112 1/2	T-2B112	43	29	19 1/2	2,095.00
150	T-2B150	48 1/2	33	24	2,558.00

Class "H" 150° C Rise Insulated Units with Two 2 1/2% FCAN and Four 2 1/2% FCBN Taps

15	T-2H15	28	20 1/2	16	522.00
30	T-2H30	32	25	17	743.00
45	T-2H45	32	25	17	1,033.00
75	T-2H75	43	29	19 1/2	1,594.00
112 1/2	T-2H112	43	29	19 1/2	1,995.00
150	T-2H150	48 1/2	33	24	2,436.00
225	T-2H225	48 1/2	33	24	3,071.00
300	T-2H300	51 1/2	36	27	3,602.00
500	T-2H500	60	40	30	6,006.00

Type 31F—480 Delta Primary Voltage, 240 Delta Secondary Voltage, 3-Wire Class "F" Insulated Units with Two 5% FCBN Taps

9	T-4F9	23 3/4	9 1/4	8 1/4	326.00
15	T-4F15	25 1/2	9 1/4	8 1/4	475.00

Class "H" Insulated Units with Two 2 1/2% FCAN and Four 2 1/2% FCBN Taps

30	T-4H30	32	25	17	743.00
45	T-4H45	32	25	17	1,033.00
75	T-4H75	43	29	19	1,594.00

Weather shields for outdoor application and wall mounting brackets are available.

Add 10% for 50 cycles.

The above units are available from factory stock. Transformers with other voltages, tap arrangements, special features and ratings thru 5000 KVA are available.

Complete Hevi-Duty catalog furnished on request.

PAD MOUNTED DISTRIBUTION TYPE

Outdoor Tamper Proof Ventilated Enclosure



5000 V. Max. Primary—600 V. Max. Secondary
Class H 150° Rise 2-2 1/2% FCAN 4-2 1/2% FCBN
Single Phase, 60 Hz

KVA	Dimensions, In.			List Each
	W.	H.	D.	
25	34 1/2	46	41	\$ 995.00
37 1/2	34 1/2	46	41	1,140.00
50	34 1/2	46	41	1,310.00
75	34 1/2	46	41	1,530.00
100	34 1/2	46	41	1,795.00
167	34 1/2	46	41	2,830.00

Three Phase, 60 Hz

45	34 1/2	46	41	1,700.00
75	34 1/2	46	41	2,160.00
112 1/2	34 1/2	46	41	2,630.00
150	34 1/2	46	41	3,070.00
225	50	52	46	4,000.00
300	50	52	46	4,750.00
400	50	52	46	5,985.00
500	50	52	46	7,090.00

600 V. Max. Class H 150° C Rise
2-2 1/2% FCAN & 4-2 1/2% FCBN Taps
Single Phase, 60 Hz

KVA	Dimensions, In.			List Each
	W.	H.	D.	
25	21	36	24	\$ 850.00
37 1/2	21	36	24	935.00
50	21	36	24	1,195.00
75	21	36	24	1,420.00
100	26	41 1/2	30	1,715.00
167	26	41 1/2	30	2,670.00

Three Phase, 60 Hz

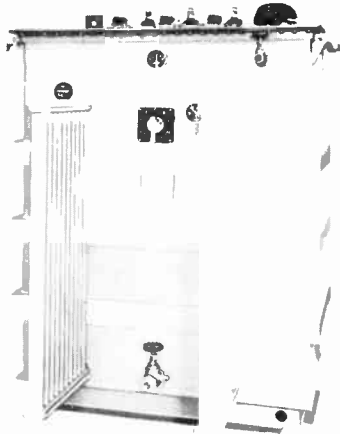
45	26	41 1/2	30	1,465.00
75	26	41 1/2	30	2,000.00
112	26	41 1/2	30	2,440.00
150	35	45	30	2,900.00
225	35	45	30	3,760.00
300	35	45	30	4,490.00

BUILT-IN ACCESSORY EQUIPMENT SUCH AS POTHEADS, LIGHTNING ARRESTERS, PRIMARY AND SECONDARY CIRCUIT PROTECTION ARE AVAILABLE AT EXTRA COST, SPECIAL CUSTOM DESIGNED UNITS CAN BE FURNISHED, PRICES ON REQUEST.

The Above Items Are Subject to 36% Discount

HEVI-DUTY OIL FILLED TRANSFORMERS

FOR DISTRIBUTION AND POWER SERVICE
Ratings to 5000 KVA — to 15000 V.

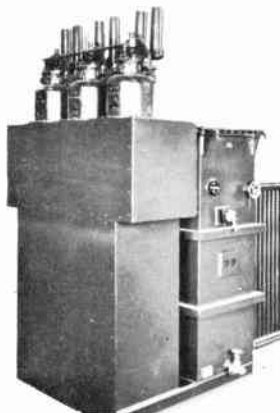


1000 KVA oil immersed power transformer 3 phase 60 Hz 4160 delta - 480 delta

These transformers are available as station type for overhead line termination, loadcenter unit substations service, or numerous specialty applications such as rectifier service — or as a component in AC or DC industrial power supply systems. Requirements for high current or multiple voltage outputs, along with special tank construction, dimensions, or performance characteristics can be quoted on receipt of specifications. These transformers are suitable for most outdoor installations and for indoor service where locations meet NEC requirements. Standard accessories include tap changer, liquid level gage temperature indicator, pressure vacuum gage, drain filter valve, handhole and lifting lugs. Terminations may be made to top or side mounted bushings, potheads, throats or special terminal boxes. Circuit protective devices can be incorporated when required.



500 KVA oil immersed power transformer 3 phase 60 Hz 26400 delta - 4160Y/2400

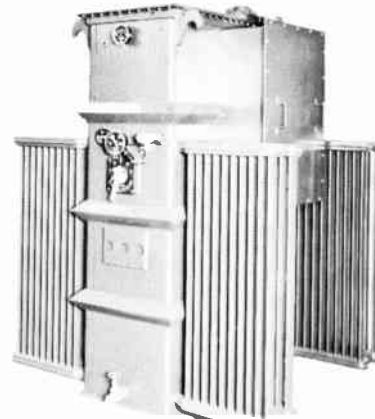


225 KVA oil immersed distribution transformer 3 phase 60 Hz 12470Y - 208Y/120 primary oil fused cutouts and air filled terminal chamber

HEVI-DUTY ASKAREL FILLED TRANSFORMERS

FOR DISTRIBUTION AND POWER SERVICE
Ratings to 5000 KVA — to 15000 V.

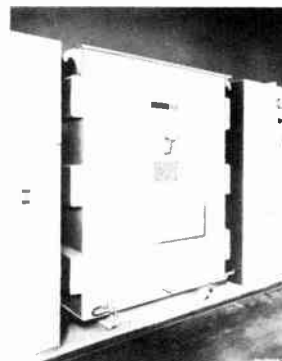
Askarel is a non-flammable liquid with high dielectric strength suitable for use as a transformer coolant and insulating medium. These transformers are suitable for indoor application where environmental conditions dictate the use of a liquid immersed core and coil structure for maximum protection and longest life. These are available as station type, loadcenter unit substation service, or specialty applications. Prices will be quoted on receipt of specifications.



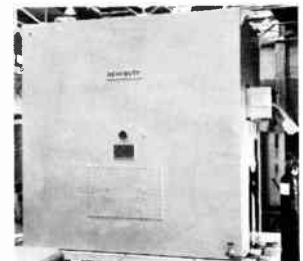
750 KVA Askarel immersed power transformer 3 phase 60 Hz 4160 - 408Y/227 primary and secondary air filled terminal chambers

HEVI-DUTY SEALED DRY TYPE TRANSFORMERS

NITROGEN OR FREON FILLED
FOR DISTRIBUTION AND POWER SERVICE
Ratings to 5000 KVA — to 15000 V.



750 KVA 13200 V. delta primary 480Y/277V 3 phase freon filled sealed dry type transformer with primary and secondary throats for loadcenter unit substation application



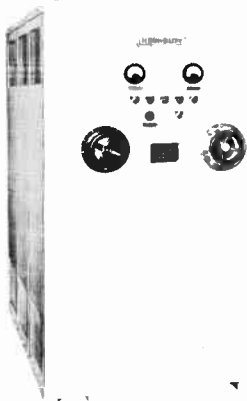
2000 KVA 15,000 V. primary 240 V. delta reconnectable 80 delta secondary 3 phase 60 Hz. Nitrogen filled sealed dry type transformer.

Sealed dry type transformers filled under slight pressure with an inert gas, usually nitrogen or freon combine the best features of both liquid and dry type units. Sealed dry types provide maximum protection from adverse environmental conditions with the welded tank construction while eliminating the normal maintenance associated with liquid filled equipment. In addition, the reduced weight and absence of fire hazards make them suitable for many indoor applications without the necessity of making expensive special provisions for installation location. Prices are available on receipt of specification data.

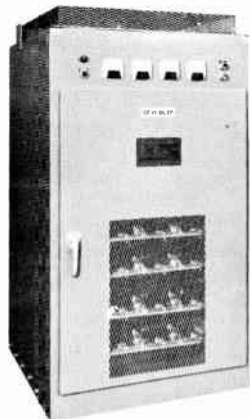
HEVI-DUTY INDUSTRIAL POWER SUPPLY SYSTEMS

FOR

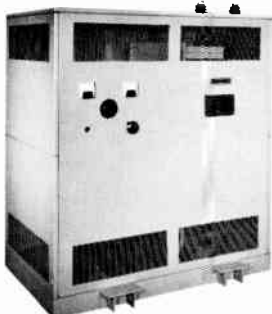
Electric Furnace Control — Coating of Magnesium — Limiting Voltage — Anodizing Aluminum — Battery Plate Formation — Chemical Processing — Fused Salt Electrolysis — Electrostatic Precipitator — Electro-Chemical Mfg. — Wave Shape Welding — Process Heaters — Resistance Heating — Glass Furnace Control — Hard Coating Aluminum — Electromagnetic Pumps — Electrolysis — Electroplating — Kroll Process — Reactive Load Banks — Laboratory Testing.



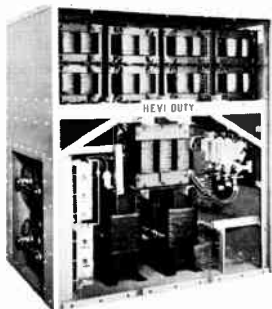
Furnace Power Supply
150 KVA



AC-DC 150KW
Power Conversion Unit



Variable DC Power Supply
50KW 100-1000V DC



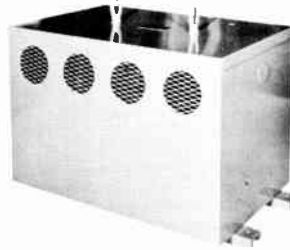
100KW DC Power Supply
Adjustable

Hevi-Duty Industrial Power Supplies are custom built to regulate voltage, current or power. The output may be either AC or DC. These power supplies provide the precise control necessary for each industrial process. All units are engineered and constructed to provide years of dependable, trouble-free service under demanding operating conditions. Hevi-Duty power supplies are built to meet applicable NEMA, AIEE, National Electrical Code and ASA Standards.

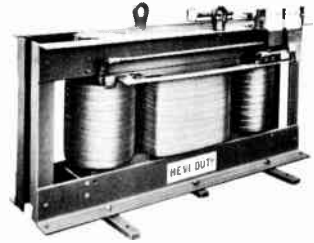
Prices on request with specification data.

HEVI-DUTY SATURABLE REACTORS

PROVIDE STEPLESS AUTOMATIC CONTROL OF POWER TO AC LOADS



Enclosed Saturable Reactor
Type SR



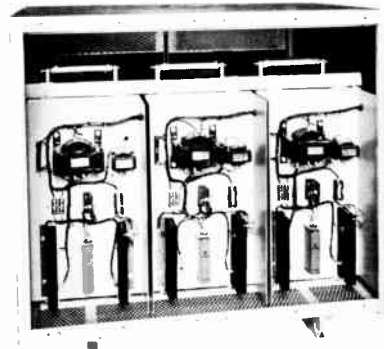
Open Saturable Reactor
Type SRO

Type SR and SRO 600 V. Max.
60 Hz Control Voltage 75 V.D.C.

KVA	List Price Each		KVA	List Price Each	
	Single Phase Open Type SRO	Single Phase Enclosed Type SR		Three Phase Open Type 3RO	Three Phase Enclosed Type 3R
1	\$ 127	\$ 155	3	\$ 326	\$ 360
1.5	132	165	6	400	445
3	176	210	9	495	545
5	228	257	15	645	710
7.5	316	348	24	940	1,030
10	377	415	30	1,040	1,180
15	528	580	45	1,535	1,695
25	705	775	60	1,880	2,070
37.5	925	1,005	75	2,000	2,230
50	1,210	1,330	112.5	2,525	2,780
75	1,680	1,990	150	3,590	3,950
100	2,160	2,370	225	4,970	5,450
150	2,730	3,000	300	5,890	6,500
333	5,550	6,050	450	7,360	8,100

The Above Items Are Subject to 36% Discount

ACUVOLT® STATIC TYPE LINE VOLTAGE REGULATOR SINGLE OR THREE PHASE



The Acuvolt® Static Line Voltage Regulator is available in ratings up to 5000 KVA and on power systems up to 15000 V. It can also be built to step upon step down voltage while maintaining output voltage at ± 1% during input voltage variations as high as ± 10%. Response is practically instantaneous and with no moving parts it is free of normal maintenance.

Prices on request with specification data.

JEFFERSON DRY TYPE TRANSFORMERS

POWERFORMERS



Illus. "A"



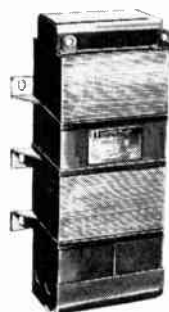
Illus. "B"



Illus. "C"



Illus. "D"



Illus. "E"



Illus. "F"

Powerformers are backed by a full Jefferson guarantee — Jefferson's reputation for quality is your finest guarantee of satisfaction, and Jefferson backs it with this explicit guarantee: The Jefferson Electric Company agrees to correct by repair or replacement, at company's option, any Powerformer which shall fail in service within a period of one year from date of shipment, provided conditions of operation have been normal at all times and that the Powerformer has not been subjected to abnormal stresses from such causes as incorrect primary voltage and frequency or overload. The Jefferson Electric Company's obligation under this guarantee which is in lieu of all other warranties, expressed or implied, is limited to replacing or repairing defective parts free of charge provided they are returned to the factory.

Powerformers meet or surpass all standards — Applicable ratings are listed with the Underwriters' Laboratories. The nameplates bear the U.L. label. All Jefferson Powerformers are engineered, built and tested in accordance with N.E.M.A. and S.S.A. standards, and meet or surpass all requirements. Customers are invited to request and inspect copies of certified test reports covering the guaranteed requirements.

SINGLE PHASE

K.V.A. Rating	Cat. No.	Illustration	Each
Wall Mounting — Pri. Volts 240/480 — Sec. Volts 120/240 — No Taps — Class B			
.050	240-201*	A	\$ 9.07
.075	240-211*	A	10.53
.100	220-021	A	11.54
.150	220-031	A	13.61
.250	220-041	A	16.28
.500	220-051	A	23.00
.750	220-061	A	28.86
1.000	220-071	B	37.10
1.000	220-071-100**	B	39.22
1.500	220-081	B	45.35
1.500	220-081-100**	B	47.93
2.000	220-091	B	55.03
2.000	220-091-100**	B	58.17

*Class "A" Insulation.

Wall Mounting — Pri. Volts 240/480 — Sec. Volts 120/240 — No Taps — Class H			
3.	221-102	B	82.44
5.	221-112	B	119.54
7.5	221-132	B	164.88
10.	221-152	B	206.10
15.	221-162	B	286.90
25.	221-182	B	417.10

Wall Mounting — Pri. Volts 480 — Sec. Volts 120/240 — 4 Taps — 2½% FCBN — Class H			
3.	221-104	B	90.68
5.	221-114	B	131.50
7.5	221-134	B	181.36
10.	221-154	B	226.72
15.	221-164	B	315.59
25.	221-184	B	458.81

Wall Mounting — Thermal Circuit Breaker in Secondary — Pri. Volts 240/480 — Sec. Volts 120 — Class B			
.100	220-021-001	C	20.74
.150	220-031-001	C	22.83
.250	220-041-001	C	25.62
.500	220-051-001	C	32.44
.750	220-061-001	C	38.37

Wall Mounting — Thermal Circuit Breaker and 3-Wire Receptacle in Secondary — Pri. Volts 240/480 — Sec. Volts 120 — Class B			
.100	220-021-012	C	24.41
.150	220-031-012	C	25.08
.250	220-041-012	C	29.30
.500	220-051-012	C	36.11
.750	220-061-012	C	42.03

Floor Mounting — Pri. Volts 240/480 — Sec. Volts 120/240 — 6-2½% Taps — 2 Above — 4 Below 480 Volts — Class H			
25.	221-1185	D	719.36
37.5	221-1205	D	586.99
50.	221-1225	D	707.35
75.	221-1235	D	883.17
100.	221-1245	D	1046.02
167.	221-1275	D	1904.40

**Single 480V. Pri — Sec. 120/240 — 2-5% Taps — FCBN.

JEFFERSON DRY TYPE TRANSFORMERS

THREE PHASE

K.V.A. Rating	Cat. No.	Illustration	Each
Wall Mounting — Pri. Volts 480 — Sec. Volts 208Y/120 — 2 Taps — 5% FCBN — Class B			
3.	222-101	E	\$135.73
6.	222-121	E	169.67
9.	222-141	E	227.84
15.	222-161	E	332.06

Wall Mounting — Pri. Volts 480 — Sec. Volts 240 — 2 Taps — 5% FCBN — Class B			
3.	222-105	E	\$149.30
6.	222-125	E	186.64
9.	222-145	E	250.63
15.	222-165	E	365.27

Floor Mounting — Pri. Volts 480 — Sec. Volts 208Y/120 — 6 Taps — 2 1/2% (2 FCAN-4 FCBN) — Class H			
30.	223-1194	F	\$ 572.01
45.	223-1214	F	795.00
75.	223-1234	F	1226.43
112.5	223-1254	F	1535.07
150.	223-1264	F	1874.39
225.	223-1294	F	2363.19
300.	223-1314	F	2771.20
500.	223-1344	F	4621.35

Floor Mounting — Pri. Volts 480 — Sec. Volts 240 — 6 Taps — 2 1/2% — (2 FCAN-4 FCBN) — Class H			
30.	223-1197	F	\$ 572.01
45.	223-1217	F	795.00
75.	223-1237	F	1226.43
112.5	223-1257	F	1535.07
150.	223-1267	F	1874.39
225.	223-1297	F	2363.19
300.	223-1317	F	2771.20
500.	223-1347	F	4621.35

Isolating Powerformers (With Electronic Shield Connected to Case)

Wall Mounting — Pri. Volts 120/240 — Sec. Volts 120/240 — Class B			
2.	220-091-120	B	\$ 70.94
3.	220-101-120	B	104.29
5.	220-111-120	B	151.23
7.5	220-131-120	B	208.56
10.	220-151-120	B	260.73
15.	220-161-120	B	362.93
25.	220-181-120	B	527.63
37.5	221-203-120*	D	564.73

Wall Mounting — Pri. Volts 208 — Sec. Volts 120/240 — Class B			
2.	220-091-208	B	\$ 70.94
3.	220-101-208	B	104.29
5.	220-111-208	B	151.23
7.5	220-131-208	B	208.56
10.	220-151-208	B	260.73
15.	220-161-208	B	362.93
25.	220-181-208	B	527.63
37.5	221-203-208*	D	564.73

*Floor mounting, class H.

BUCK AND BOOST POWERFORMERS

K.V.A. Rating	Cat. No.	Illustration	Each
Wall Mounting — Pri. Volts 120/240 — Sec. Volts 12/24 — Class B			
.100	246-101	A	\$ 15.84
.150	246-111	A	17.52
.250	246-121	A	19.79
.500	246-131	A	25.58
.750	246-141	A	33.80
1.	246-151	B	41.39
1.5	246-161	B	50.54
2.	246-171	B	67.61
3.	246-181	B	90.91
5.	246-191	B	140.08

Wall Mounting — Pri. Volts 120/240 — Sec. Volts 16/32 — Class B

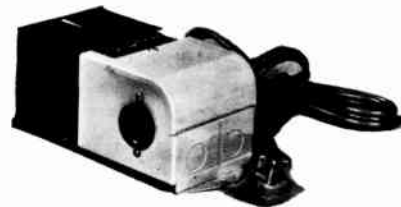
.100	246-201	A	\$ 17.43
.150	246-211	A	19.25
.250	246-221	A	21.78
.500	246-231	A	28.17
.750	246-241	A	37.31
1.	246-251	B	45.54
1.5	256-261	B	55.58
2.	256-271	B	74.37
3.	256-281	B	100.04
5.	256-291	B	154.24

Wall Mounting — Pri. Volts 480 — Sec. Volts 24/48 — Class B

.100	246-401	A	\$ 17.31
.150	246-411	A	18.97
.250	246-421	A	21.44
.500	246-431	A	28.03
.750	246-441	A	36.27
1.	246-451	B	44.52
1.5	246-461	B	54.42
2.	246-471	B	73.37
3.	246-481	B	98.93
5.	246-491	B	151.69

JEFFERSON TRANSFORMERS

AIR CONDITIONING TRANSFORMER

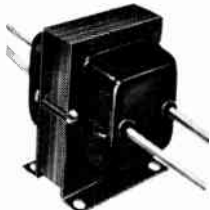


50/60 Cycle

K.V.A. Capacity	Cat. No.	Input Voltage	Output Voltage
3.2	241-432	208	230

Price on Application

**JEFFERSON TRANSFORMERS
LOW VOLTAGE CONTROL TRANSFORMERS**



Illus. 1



Illus. 2



Illus. 3



Illus. 4

**Primary 120 Volts — 50/60 Cycle —
Secondary 6 Volts**

V.A. Capacity	Cat. No.	Illustration	Each
10	637-701	1	\$ 6.50
25	637-711	1	7.00
50	637-721	1	8.00
100	637-731	1	10.10
150	637-741	1	11.80

**Primary 120 Volts — 50/60 Cycle —
Secondary 12 Volts**

50	637-461	2	8.00
100	637-471	2	10.10
150	637-481	2	11.60
250	637-491	2	14.40

**Primary 120 Volts — 50/60 Cycle —
Secondary 24 Volts**

25	637-201	2	7.00
50	637-221	2	8.00
75	637-231	2	9.30
100	637-261	2	10.10
150	637-271	2	11.60
250	637-291	2	14.40

**Primary 120 Volts — 50/60 Cycle —
Secondary 32 Volts**

50	637-601	2	8.00
100	637-611	2	10.10
150	637-621	2	11.60
250	637-631	2	14.40

**Primary 240/480 Volts — 50/60 Cycle —
Secondary 120 Volts**

25	637-531*	2**	7.00
50	637-551	2**	8.00
75	637-561	2**	9.30
100	637-571	2**	10.10
150	637-581	2**	11.60
250	637-591	2**	13.90

**High Reactance Type — Primary 120 Volts —
50/60 Cycle**

Secondary Open Circuit 25 Volts

15	631-501	3	.....
20	631-511	3	.....
25	631-521	3	.....
35	631-531	3	.....

**High Reactance Type — Primary 120 Volts —
50/60 Cycle**

Secondary Open Circuit 25 Volts

15	631-621	4	.....
20	631-631	4	.....
25	631-641	4	.....
35	631-651	4	.....

*240 volt primary only.
**Similar to illustration No. 2 except both primary and secondary leads are brought through the same pipe nipple.

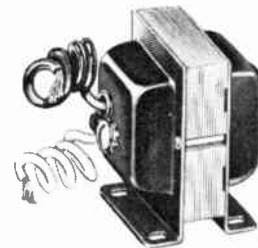
**JEFFERSON TRANSFORMERS
SIGNALLING TRANSFORMERS**



**Multiple 4/8/12/16/20/24 Volt Secondary —
60 Cycle**

V.A. Capacity	Cat. No.	Primary Volts	Max. Current Output (Amps.)	Each
50	231-101	120	2	\$13.30
50	231-103	240	2	15.80
100	231-111	120	4	21.40
100	231-113	240	4	25.60
250	231-141	120	10	53.80
250	231-143	240	10	64.60
500	231-151	120	20	83.30
750	231-171	120	30	76.20
1000	231-181	120	40	94.40

DOORBELL AND CHIME TRANSFORMERS



60 Cycle

V.A. Capacity	Cat. No.	Primary Volts	Std. Pkg.	Secondary Volts	Each
5	230-201	120	24	10	\$2.70
5	230-203	240	24	10	3.38
10	230-221	120	10	6-12-18	3.40
10	230-223	240	24	6-12-18	4.25
10	230-341	120	10	16	3.40
10	230-343	240	10	16	4.25

SWIMMING POOL TRANSFORMERS



**Primary Volts 110/115/120 — 60 Cycle
Secondary Volts 12/13/14**

Load Lamp Watts	Cat. No.
100	969-001-938
300	969-001-939
500	969-001-940
900	969-001-941

Price on Application

JEFFERSON TRANSFORMERS

MACHINE TOOL TRANSFORMERS



Jefferson's terminal-type machine tool transformers are specifically designed to reduce 480 or 240 volt sources to 120 volts to allow for the operation of: contactors, relays, solenoids, timers, lights and similar devices. The relatively low impedance in the design allows each unit to meet high peak demands of the total load without jeopardizing secondary voltage characteristics.

TERMINAL LUG TYPE

240/480 Volt Primary — 120 Volt Secondary
50/60 Cycles

V.A. Capacity	Cat. No.	Each	V.A. Capacity	Cat. No.	Each
25	636-2401	\$3.60	500	636-2491	\$15.55
50	636-2411	4.40	750	636-2501	22.30
75	636-2421	5.60	1000	636-2511	27.50
100	636-2431	6.25	1500	636-2521	39.70
150	636-2441	7.25	2000	636-2531	50.30
200	636-2451	9.30	3000	636-2541	65.60
250	636-2461	10.65	4000	636-2551	92.40
300	636-2471	12.15	5000	636-2561	113.30
350	636-2481	12.70			

230/460/575 Volt Primary 50/60 Cycle
115/95 Volts Secondary

V.A. Capacity	Cat. No.	Each	V.A. Capacity	Cat. No.	Each
25	636-4401	\$5.15	500	636-4491	\$17.70
50	636-4411	7.20	750	636-4501	25.25
75	636-4421	7.60	1000	636-4511	34.00
100	636-4431	8.25	1500	636-4521	45.50
150	636-4441	8.60	2000	636-4531	63.25
200	636-4451	9.40	3000	636-4541	80.00
250	636-4461	11.45	4000	636-4551	95.25
300	636-4471	13.05	5000	636-4561	126.50
350	636-4481	14.45			



The panel board can accommodate either a fuseholder or circuit breaker. Both circuit breakers and fuseholders are mounted virtually without tools. In both assembly of fuseholder and circuit breaker, they are placed in series with the terminals of the secondary circuit, and mounted on the terminal panel which is readily accessible at the side and top of the transformer.

PANEL TYPE

240/480 Volt Primary — 120 Volt Secondary
50/60 Cycle

V.A. Capacity	Cat. No.	Each	V.A. Capacity	Cat. No.	Each
25	636-1401	\$4.00	500	636-1491	\$16.00
50	636-1411	4.55	750	636-1501	22.50
75	636-1421	6.00	1000	636-1511	28.00
100	636-1431	6.40	1500	636-1521	40.20
150	636-1441	7.40	2000	636-1531	52.05
200	636-1451	9.45	3000	636-1541	66.10
250	636-1461	11.05	4000	636-1551	92.65
300	636-1471	12.30	5000	636-1561	113.55
350	636-1481	13.10			

For
JEFFERSON TRANSFORMERS
With

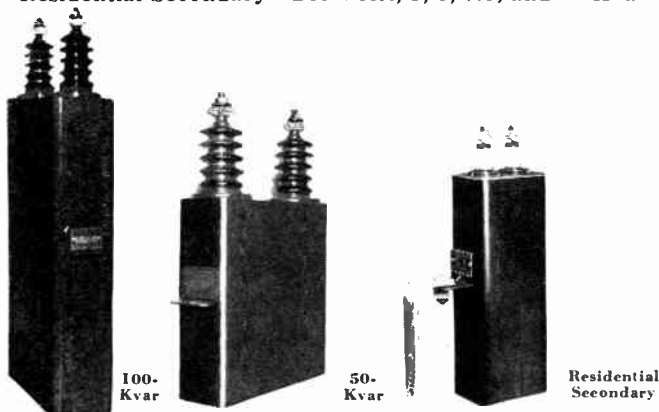
- SPECIAL VOLTAGES
- SPECIAL SIZES
- SPECIAL APPLICATIONS

Call GRAYBAR

GENERAL ELECTRIC POWER CAPACITORS FOR KILOVAR SUPPLY

INDIVIDUAL PYRANOL® CAPACITORS

For Primary and Secondary Distribution Feeders
 Primary and Residential Secondary Units
 For Single- or Three-phase, 60-Cycle Circuits
 Primary—2400 to 14,400 Volts, 100 and 50 Kvar
 Residential Secondary—240 Volts, 3, 5, 7.5, and 10 Kvar



Compact and easily installed, with hangers available for crossarm mounting or for direct bolting to the pole, these units are especially suited for gaining kw carrying capacity and reducing voltage drop on distribution circuits.

They permit extremely effective distribution of the capacitor kvar in small blocks and at many points over an entire feeder. In small blocks, they supply reactive kva economically and with great flexibility for future arrangement.

For further information, ask for Bulletin GEA-7197.

INDIVIDUAL ENCLOSED UNITS—TYPE EDT AND EWT

For Low-voltage Industrial Application
 Single-phase or Polyphase, 60 Cycles
 230 Volts, 0.5, 1, 2.5, 5, 7.5, 10, and 15 Kvar
 460 and 575 Volts, 1, 2, 5, 7.5, 10, 15, 20, 25, 35, and 50 Kvar

These units are for indoor and outdoor application for improvement of power factor directly at individual motors or other small loads. Group installations, consisting of a small number of enclosed units, can be made if the kilovars required exceed those of a single unit.

For larger loads, enclosed units may be grouped in a bank. However, small housed equipments (Type LSO and DPS) are often recommended for these applications. For further information on EDT and EWT units, ask for Bulletin GEA-7198.



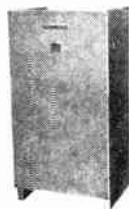
Dustproof design, Type EDT with fuses Weatherproof design, Type EWT with fuses

SMALL RACK-TYPE EQUIPMENTS—TYPE DPS AND LSO

For Low-voltage Industrial Application
 Single-phase or Polyphase
 230 Volts—30 to 180 Kvar
 460 and 575 Volts—50 to 300 Kvar

In the improvement of plant power factor, it is often desired to locate capacitor equipments in one or more groups on the low-voltage buses where the total kvar rating needed generally exceeds the output of a single individual capacitor unit. For such applications, these equipments are available in indoor, and outdoor designs. Single tier DPS equipments (230 v, 30 to 90 kvar; 460 and 575 v, 50 to 200 kvar), suitable for ceiling mounting, are also available. The single tier DPS may also be floor-mounted, in which event it can be stacked three equipments high.

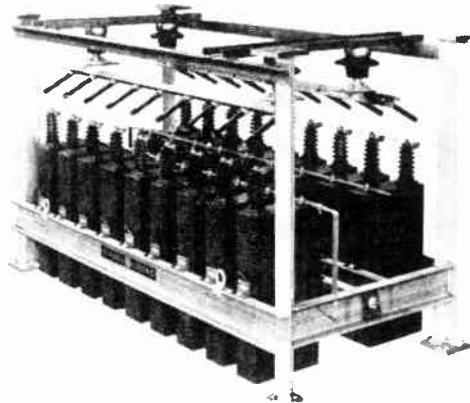
For further information, ask for Bulletin GEA-7198.



Dustproof design for indoor service, Type DPS

OPEN-TYPE STACK-RACK EQUIPMENTS

For High-voltage Transmission Lines and Substation Application, 2400 to 333,000 Volts



Factory-assembled racks minimize installation time and provide reliability and economy where housed equipments are not required. A wide range of kvar and voltage ratings may be obtained by omitting units or combining racks. Each individual rack is a complete, "building-block" assembly and is designed so that relocation or changes in bank size may be easily accomplished. The racks consist of capacitors, individual bus-mounted fuses, interconnecting material, and insulators.

Small three-phase packaged equipments rated 600, 900, 1200, 1800, 2400 and 3000 kvar, 2.4 to 13.8 kv, are available to improve power factor at distribution substations rated below 15 kv. They include an assembled three-phase rack, three switches, and an eight-foot elevating structure.

For further information, see Bulletin GEA-7197.

SMALL EQUIPMENTS—TYPE HWT

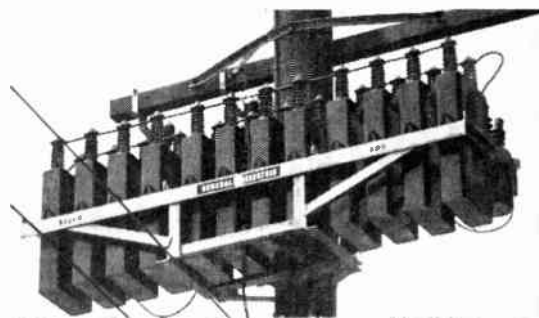
For High-voltage Industrial & Substation Applications
 Three-phase, 2400 Volts and 4160 Volts
 25, 50, 75, 100, 125, 150 Kvar

Type HWT equipments are for use on indoor or outdoor circuits where small blocks of power-factor-improvement capacity are desired.

In the application of capacitors on circuits of 2300 volts and higher in small industrial plants, ratings 150 kvar and less are often desired. These small Type HWT equipments are ideal for this purpose, and in large plants a number of these installed at various load centers may prove more advantageous than one large equipment. Ask for Bulletin GEA-7198 for complete information.

OPEN POLE-TYPE EQUIPMENTS

For High-Voltage Power-distribution Lines
 Single- and Three-phase, 60 Cycles
 2400-24,900 Volts, 150-1800 Kvar



Fixed pole-type equipments are an economical source of base kilovars on distribution circuits. Automatically switched pole-type equipments are available for locations where it is desirable to switch capacitors to provide peak-load kilovars and contribute to improved voltage regulation.

Two standard designs of pole-type equipments are available: single-row equipments up to 1200 kilovars, and three-segment cluster equipments up to 1800 kilovars. Ask for Bulletin GEA-7197.

Call Graybar for Complete Details

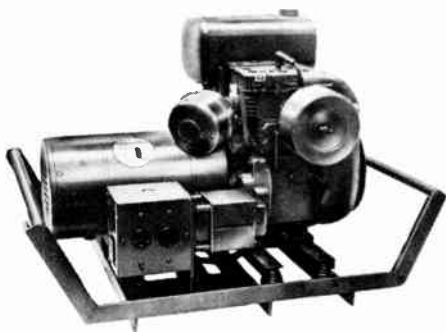
GENERAC NIAGARA ALTERNATORS

Niagara alternators feature a new complete line of high performance light weight generator sets which offer more watts per dollar and more watts per pound.

The alternators are advance design, rotating field type which offer numerous advantages. Close voltage regulation is possible through the use of rectifier-reactor type excitation and this excitation circuit also provides for 25% reserve surge capacity for electric motor starting. Full power is taken from stationary stator coils, not through slip rings and brushes.

The elimination of the commutator along with complete inter-changeability of common parts greatly simplifies maintenance. Radio and TV interference has been reduced to a minimum. The use of high temperature insulation greatly improves operating efficiencies and generator life.

MODEL 5182 — 5000 WATT



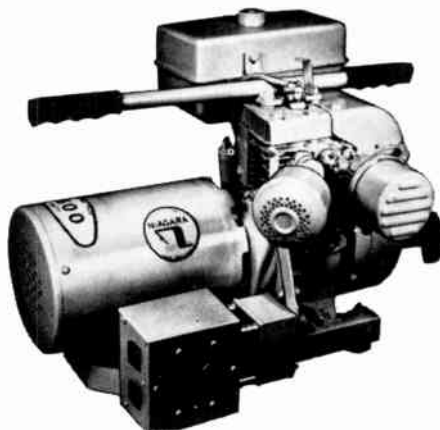
This unit is conservatively rated at 5000 watts with 25% surge capacity and is capable of delivering continuous power at either 115 or 230 volts. Weighs only 215 lbs.

Type — Revolving field alternator. Voltage Regulation — Reactor type. 5%. Rectifier — plug-in type. Output Receptacle — Two 115

volt 2-prong polarized, one 115 volt twist-lock and one 230 volt twist-lock. Power Factor — All rating are based on unity power factor. Unit — CSA approved.

Model No.	Watt Rating	Type Start	AC Volts	Engine	Net Wt. Lbs.	Each
5182	5000	Rope	115/230	Lauson 215		\$383.25
5183‡	5000	Electrical	115/230	Lauson 220		447.75

MODEL 5056 — 2500 WATT



The model 5056 is powered by a dependable four cycle, single cylinder, air cooled engine. The power unit accessories considered standard include washable air cleaner element, recoil starting, low tone muffler and mechanical governing for close frequency regulation, carrying handle, and vibration isolating mounting base. 115/

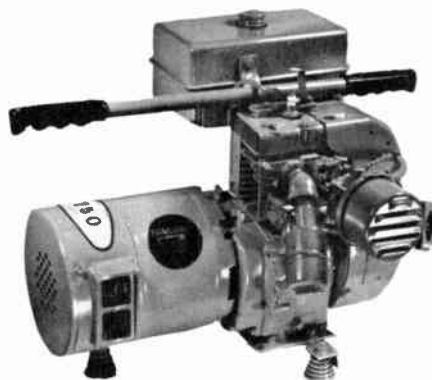
230 volt, single phase, 60 cycle, 3600 RPM.

Model No.	Watt Rating	Type Start	AC Volts	Engine	Net Wt. Lbs.	Each
5056	2500	Recoil	115/230	Lauson 108		\$259.50
5079*	2500	Recoil	115/230	Lauson 108		295.50
5080*‡	2500	Electric	115/230	Lauson 128		354.00
5081‡	2500	Electric	115/230	Lauson 128		318.00

*With LPG Carburetion. ‡All Electric Start units have Battery Charging feature.

GENERAC NIAGARA ALTERNATORS

MODEL 5055 - 1750 WATTS



The model 5055 is powered by a dependable four cycle, single cylinder, air cooled engine. The power unit accessories considered standard include washable air cleaner element, recoil starting, low tone muffler and mechanical governing for close frequency regulation, carrying handle, and vibration isolating mounting base.

Alternator — single phase, 115 volt AC. 15.2 amps., 3600 RPM, 60 cycle. Output receptacle — two 115 volt, 2-prong polarized.

Model No	Watt Rating	Type Start	AC Volts	Engine	Net Wt. Lbs.	Each
5055	1750	Recoil	115	Lauson	78	\$184.50

GENERAC NIAGARA ELECTRIC CHAIN SAW



For home, farm and construction. Powerful enough for tough jobs, yet light enough for ease of handling.

Features high temperature motor insulation, turbine fan cooling, hardened gears, heavy duty bearing with ball bearing thrust on armature shaft, hardened drive sprocket — plus the manual reset overload protector to guard against motor burn outs.

Model 5394 — 10-Inch Saw — non-oiler — 115 volt — AC motor. Weighs only 12 lbs. Motor draws 11 amps. 6 foot cord and 3-wire polarized plug included.

Shpg. wt. 14 lbs.each \$69.50

No. 25247 Replacement Chaineach 15.75

Model 5395 — 13-Inch Saw with plunger-type oiler — 115 volt, AC. Motors draws 13 amps. Motor 35% larger than the 10" saw. Weighs only 14 lbs. 6 foot cord and 3-wire polarized plug included.

Shpg. wt. 16 lbs.each \$84.50

No. 25563 Replacement Chaineach 18.75

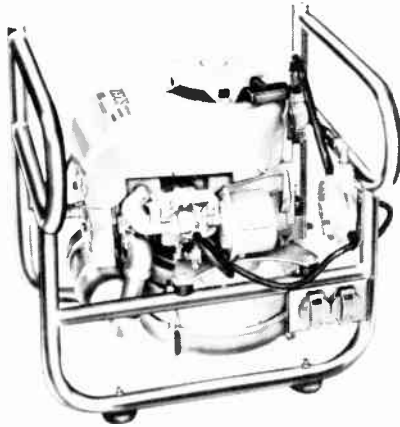
Model 5396 — 16" Saw with plunger-type oiler — 115 volt, AC. Weighs only 16 lbs. Motor draws 15 amps. Motor 35% larger than the 13" saw and 70% larger than 10" saw. 6 foot cord and 3-Wire polarized plug.

Shpg. wt. 18 lbs.each \$98.50

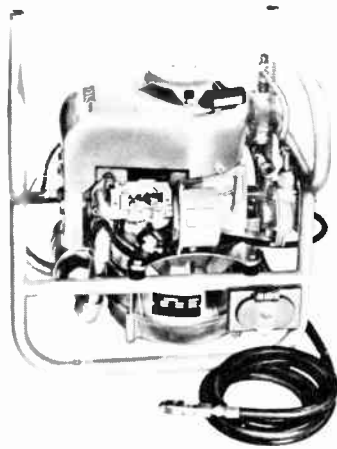
No. 25565 Replacement Chain.....each 21.50

ZEUS PORTABLE ELECTRIC POWER UNITS

Primarily Designed for Public Utility Applications



Model ZA-1500-GBT



Model ZA-1500 GCE

The heart of every Zeus generator is the maintenance-free, heavy-duty Zeus Permanent Magnet Alternator which has only one moving part. Eliminated are brushes, armature windings, slip rings and commutators, major sources of wear and tear that cut the life of old style generators. It also can absorb extreme surge overloads without damage. Because of the alternator, Zeus generators weigh 24% less than comparable old-fashioned electric generators.

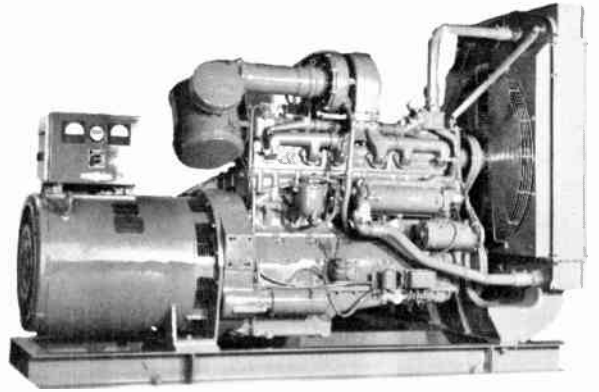
Other features are an extra-heavy welded steel frame, extra-quiet muffler, weather-protected electrical connections, and reliable powerful Lauson engines.

Standard Equipment includes: Visual Fuel Gauge and Visual Oil Level Indicator, Integral Duplex Receptacles, Carrying Cradle, Rubber Shock Absorbing Feet, Recoil Starter. Instruction book and a 1 year warranty. Approximate weight: Net — 106 lbs., Shipping — 120 lbs.

Model No.	Fuel	Wire	Amps.	Each
1500 Watt AC Continuous Duty Rating				
115 Volts, 60 Cycle, 1 Phase				
ZA-1500GBT	LP Gas	2	13.1	\$273.10
ZA-1500GCE	LP Gas	2	13.1	280.50
ZA-1500BT	Gasoline	2	13.1	257.14

CADIZ ELECTRIC PLANTS

FOR PRIMARY OR STANDBY POWER



200KW Standby Diesel Generator — 120/208 Volts

For the utmost in dependable primary or standby power, alternators of the latest design are combined with engines of well known manufacturers to form conservatively rated power units which will deliver their intended output year after year.

Generator units are available for operation with diesel, gasoline, natural gas, or LPG fuels.

All appropriate accessories are available for all types of installations including automatic transfer switch and automatic starting controls.

Cadiz Diesel Generator Sets
Standby or Continuous
10KW to 400KW

Cadiz Gasoline Generator Sets
Standby or Continuous
5KW to 100KW

POWER-LINE GENERATORS

PLG-2000 GENERATOR



POWER — wherever and whenever needed.

The Power-Line Generator will operate as many as four ½" electric drills at one time, or jig saw, sander and Skil saw at once. Most plug-in type electrical appliances can operate from this powerful unit.

Operation — Powered by vehicle fan belt or by adding extra pulley and belt to DC generator.

Controls — Panel contains on-off switch, AC voltmeter, outlet and cable.

Output — Maximum 2500 watts at 4500 RPM
2000 watts at 3600 RPMS, 60 cycle.

Amperes — 15.5 AC — Field Current — 10 Amp.
DC. Shipping weight 40 lbs.

Size: 10½" x 5½".
No. PLG-2000 Generator.....each **\$168.50**
Mounting Kit (extra).....each **31.00**
Transistorized Voltage Regulator available which controls voltage fluctuation.....each **89.50**

GENERAL ELECTRIC INSTRUMENT TRANSFORMERS

General Electric's Hy-Bute/60* instrument transformers set industry wide standards for quality, service, and versatility. All G-E butyl-molded instrument transformers conform to ASA insulation standards.

Butyl requires no maintenance, G-E transformers will not corrode, harden or crack with age or extreme weather; never need painting; are easy to clean, have no porcelain insulators to break.

Butyl lowers installation costs. Tough, flexible butyl construction protects against mechanical shock, damage; are up to 50% smaller, 33% lighter than other units of equal ratings for fast, easy handling.

Butyl cuts inventory costs. Any-angle mounting of G-E's butyl-molded instrument transformers supersedes bottom, top, and side-connected designs . . . simplifies stocking and ordering.

Butyl increases safety. Butyl cannot catch fire or explode. And at high voltage, Hy-Bute/60 insulation prevents creep-tracking.

These transformers are available in a wide variety of types to meet all application needs: current; potential; indoor-outdoor; window; bar; bar; wound; miniature; fused or unfused; 600 to 15,000 volts.

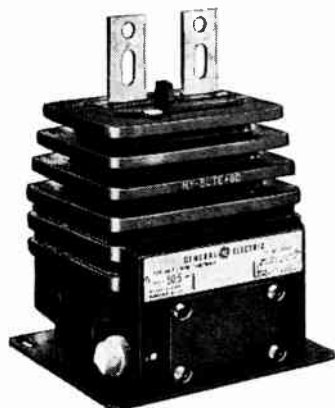
CURRENT TRANSFORMERS



Type JCH-O



Type JCW-O



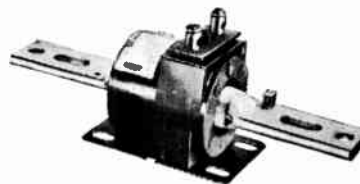
Type JKW-3
(Types JKW-4 and JKW-5 are similar in appearance.)



Type JCD-O



Type JKP-O



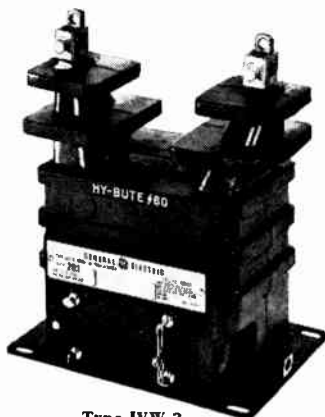
Type JCX-O

Type	Current Ratio, Amperes, Primary: Secondary	Volts	Cat. No.	List Price, Each
Indoor Transformer, Window-type				
JCH-O	200:5	600	631X29	\$17.00
JCD-O	4000:5	600	822X74	100.00
Indoor Transformer, Bar-primary-type with Base				
JCX-O	200:5	600	750X23G41	\$24.00
Indoor-Outdoor Transformers, Window-type with Base				
JCW-O	200:5	600	750X32G11	\$33.00
JKP-O	200:5	600	836X12	54.00
Outdoor Transformers				
JKW-3	100:5	5000	693X79	\$180.00
JKW-4	100:5	8700	640X19	238.00
JKW-5	100:5	15000	638X79	335.00

POTENTIAL TRANSFORMERS



Type JVP-O



Type JWV-3
(Types JWV-4 and JWV-5 are similar in appearance.)

Type	Transformer Rating†		Cat. No.	List Price, Each	Application	
	Primary Voltage	Ratio			Circuit Voltage Line-to-Line	Permissible Transformer Primary Connection
Indoor-Outdoor Transformer						
JVP-O	480	4:1	760X32G4	\$78.00	480	Δ or Y
Outdoor Transformers						
JWV-3	2400	20:1	680X1	\$183.00	2400	Δ or Y
JWV-4	7200	60:1	685X55	303.00	7200	Δ or Y
JWV-5	14400	120:1	685X59	350.00	14400	Δ or Y

† For continuous operation, the transformer primary-voltage rating should not be exceeded by more than 10%. Under emergency conditions, over-voltage must be limited to 1.25 times the transformer primary-voltage rating. It is recommended that the system line-to-line voltage not exceed the transformer insulation-class voltage.

*Registered trade-mark of the General Electric Company.

The Above Items Are Subject to 40% Discount

GENERAL ELECTRIC WATTHOUR METERS

General Electric provides a complete line of single-phase and polyphase watthour meters and watthour demand meters and meter sockets.

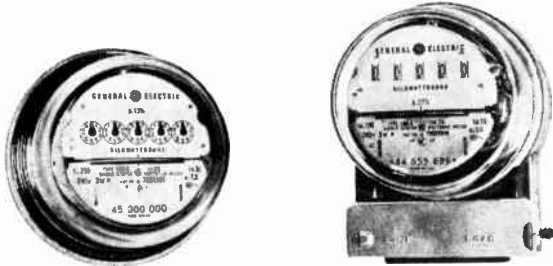
Extended-range current capacity of 15-ampere meters is 100 amperes (Class 100), and of 30-ampere meters is 200 amperes (Class 200).

Both the single-phase and polyphase families of meters incorporate magnetic suspension systems which provide time-proven savings in maintenance and sustained accuracy of calibration. For installation of watthour meters refer to Pocket Guide GET-2669.

INDEX OF TYPES FOR ALTERNATING CURRENT

Mounting	Type	No. Stators	Meter Circuit
Wall	I-60-S	1	3-wire, 1-phase
Wall	I-55-S & -A	1	3-wire, 1-phase
Wall	I-50-S & -A	1	2- or 3-wire, 1-phase
Wall	V-62-S	2	3-wire, 1-, 2-, 3-phase
Wall	V-63-S & -A	2	3-wire, 3-phase
Wall	V-64-S & -A	3	4-wire Y, 3-phase
Wall	V-65-S & -A	2	4-wire Y, 3-phase
Wall	V-66-S & -A	2	4-wire Δ, 3-phase
Wall	V-68-S & -A	3	5-wire, 2-phase
Swbd	DS-53, -63	2	3-wire, 1-, 2-, or 3-phase, and 4-wire, 2-phase
Swbd	DS-54, -64	3	4-wire Y, 3-phase
Swbd	DS-55, -65	2	4-wire Y, 3-phase
Swbd	DS-66	2	4-wire Δ, 3-phase
Swbd	DS-67	4	Two circuits, 3-wire, 3-phase
Swbd	DS-69	4	Two circuits, 4-wire Y, 3-phase

SINGLE-PHASE, SINGLE-STATOR, 60-CYCLE
Types I-60, I-55 and I-50



Type I-60-S

Type I-55-A

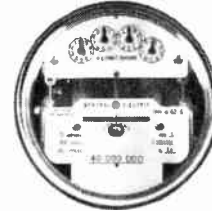
The single-phase Types I-60, I-55 and I-50 watthour meters include models which meet all single-phase metering needs. Each of these meters incorporates magnetic suspension bearings, surge relief, rigid permanent assembly, and long-term sustained accuracy.

Both the I-55 and the Certi-Seal* I-60 meters are sealed against entrance of dust, insects, and other maintenance-causing contaminants, thus offering virtually maintenance-free performance for the life of the meter.

Approximate shipping weights: for "S" type, 5 1/2 lb.; for "A" type, 6 lb.

*Trade-mark of General Electric Co.

TWO-STATOR, 3-WIRE, 60-CYCLE
TYPE V-62-S



Type V-62-S

Type V-62-S 240-volt and 480-volt meters for 3-wire, 3-phase circuits are rated for service installations of 100 or 200 amperes when used with appropriate 5-terminal sockets. The 120-volt meters are for 3-wire, 120/208-volt network service, 100 or 200 amperes.

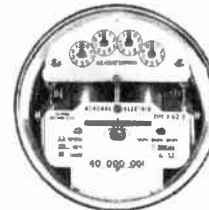
Approximate shipping weight, 10 lb.

Type V-62-S Meters with 5-Dial x1 Registers†

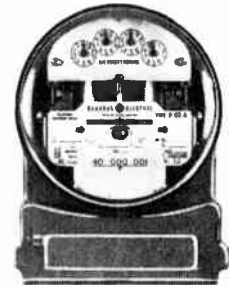
Ampere Class	Test Amp	Circuit	Volts	Cat. No.	List Price, Each
100	15	3-wire, 3-phase	240	700X1G10	\$59.00
			480	700X1G12	75.00
200	30	3-wire, 3-phase	240	700X1G11	79.00
			480	700X1G13	95.00
100	15	3-wire, network	120/208	700X1G8	59.00

†4-dial x10 registers are optional. Specify if desired.

TWO-STATOR, POLYPHASE, 3-WIRE, 60-CYCLE
TYPES V-63-S AND V-63-A



Type V-63-S



Type V-63-A

Type V-63 meters in both self-contained and transformer ratings are intended for use on 3-wire, 1-, 2-, or 3-phase circuits. Transformer-rated meters are provided with potential-indicating lamps.

Type V-63-A is for bottom connection and the Type V-63-S is for socket mounting (8-jaw socket).

Approximate shipping weights: for "S" type, 10 lb.; for "A" type, 13 lb.

Meter	Class	Amp	Dials	With Pointer-type Register	List Price, Each	With Cyclometer Register	List Price, Each
240-Volt, 3-Wire, Self-Contained Meters							
1-60	200	30	5	720X1G11§	\$25.30	720X1G16§	\$28.30
1-60	200	30	4	720X1G2§	25.30	720X1G3§	28.30
1-55	100	15	5	630X68§	25.30	720X5G23§	28.30
1-55	100	15	5	630X69†	28.30	720X6G18†	31.30
1-55	100	15	4	720X5G1§	25.30	630X64†	28.30
1-55	100	15	4	630X63†	28.30	630X65†	31.30

Universal 120/240, 2/3-Wire Meter
(Internally Reconnectable)

Meter	Class	Amp	Dials	With Pointer-type Register	List Price, Each	With Cyclometer Register	List Price, Each
1-55	100	15	4	644X68§	\$27.30	644X69§	\$30.30
1-55	100	15	4	644X71†	30.30	644X72†	33.30
1-55	100	15	5	644X70§	27.30	720X5G24§	30.30
1-55	100	15	5	644X73†	30.30	720X6G19	33.30

120-Volt, 2-Wire, Self-Contained Meters

Meter	Class	Amp	Dials	With Pointer-type Register	List Price, Each	With Cyclometer Register	List Price, Each
1-55	100	15	4	720X5G35§	\$25.30	720X5G36§	\$28.30
1-55	100	15	4	720X6G34†	28.30	720X6G38†	31.30

§Socket-connected ("S" type).
†Bottom-connected ("A" type).

Meters for Use with Instrument Transformers

Volts	Amp	Circuit Rating	I-50-S Cat. No.	List Price, Each	I-50-A Cat. No.	List Price, Each
120	2.5	2-wire	627X31	\$29.70	627X27	\$32.70
240	2.5	3-wire†	627X33	29.70	627X29	32.70
240	2.5	3-wire	629X33	29.70	627X30	32.70

† 2-wire meter.

V o l t s	A m p	Type V-63-S		Type V-63-A		Type V-63-S		Type V-63-A		
		Cat. No.	List Price, Each	Cat. No.	List Price, Each	Cat. No.	List Price, Each	Cat. No.	List Price, Each	
120	15	700X7G1	\$71.00	700X13G1	\$77.00	240	700X7G3	\$71.00	700X13G2	\$77.00
	30	700X7G2	91.00	700X13G8	97.00		700X7G4	91.00	700X13G3	97.00
480	15	700X7G5	\$87.00	700X13G4	\$93.00	600	700X7G7	\$97.00	700X13G6	\$97.00
	30	700X7G6	107.00	700X13G5	113.00		700X7G8	111.00	700X13G7	117.00

For Use With Instrument Transformers

Volts	Amp	Cat. No.	List Price, Each	Cat. No.	List Price, Each	Cat. No.	List Price, Each			
120	2.5	700X8G1	\$79.00	700X14G1	\$85.00	240	700X8G6	\$79.00	700X14G6	\$85.00
480	2.5	700X8G10	\$95.00	700X14G12	\$101.00	600	700X8G15	\$99.00	700X14G17	\$105.00

The Above Items Are Subject to 40% Discount

GENERAL ELECTRIC WATTHOUR METERS

**TWO-STATOR, POLYPHASE, 4-WIRE Y, 60-CYCLE
TYPES V-65-S AND V-65-A**

This meter has two potential circuits and three current circuits and is intended for use on 4-wire Y, 3-phase circuits. In external appearance, it is like the Type V-63 meter.

Volts	Amp	Type V-65-S		Type V-65-A	
		Cat. No.	List Price, Each	Cat. No.	List Price, Each
120Y	15	700X22G1	\$83.00	700X28G1	\$89.00
120Y	30	700X22G9	108.00	700X28G6	114.00

For Use with Instrument Transformers

Volts	Amp	Type V-65-S		Type V-65-A	
		Cat. No.	List Price, Each	Cat. No.	List Price, Each
120Y	2.5	700X23G1*	\$93.00	700X29G1	\$99.00

* 13-terminal meter provides separate terminals for all coils (10 terminals) plus contact device (3 terminals) when required. Seven-terminal construction also available.

**TWO-STATOR, POLYPHASE, 4-WIRE Δ, 60-CYCLE
TYPES V-66-S AND V-66-A**

The Type V-66 meter has two 240-volt potential circuits and three current circuits and is intended for use on 4-wire Δ, 3-phase circuits. In external appearance it is the same as the Type V-63 meter.

Volts	Amp	Type V-66-S		Type V-66-A	
		Cat. No.	List Price, Each	Cat. No.	List Price, Each
240	15	700X36G1	\$77.00	700X42G1	\$83.00
240	30	700X36G8	97.00	700X42G9	103.00

For Use with Instrument Transformers

Volts	Amp	Type V-66-S		Type V-66-A	
		Cat. No.	List Price, Each	Cat. No.	List Price, Each
240	2.5	700X37G1†	\$85.00	700X43G1	\$91.00

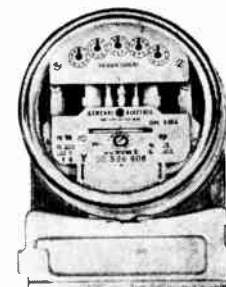
† 13-terminal meter provides separate terminals for all coils (10 terminals) plus contact device (3 terminals) when required.

Approximate shipping weights: for "S" type, 11 lb; for "A" types, 13 lb.

**THREE-STATOR, POLYPHASE, 60-CYCLE
TYPES V-64-S, V-64-A, V-68-S AND V-68-A**



Type V-64-S



Type V-64-A

Types V-64-S and V-64-A meters are intended for use on 4-wire Y, 3-phase circuits where phase voltage is unbalanced.

The V-64-S, 15- or 30-ampere, requires a 7-jaw socket. The 2.5 ampere meter uses a 13-jaw socket with circuit-closing device.

Types V-68-S and V-68-A self-contained meters can totalize two single-phase circuits or one polyphase circuit—5-wire, 2-phase, or 4-wire, 2-phase. Information and prices available upon request.

Volts	Amp	With Pointer-type Register			
		Socket-connected Type V-64-S		Bottom-connected Type V-64-A	
		Cat. No.	List Price, Each	Cat. No.	List Price, Each
120Y	15	701X13G2	\$114.00	701X19G2	\$120.00
120Y	30	701X13G5	144.00	701X19G5	150.00

For Use With Instrument Transformers

120Y	2.5	701X14G1	\$126.00	701X20G1	\$132.00
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Approximate shipping weights: for "S" type, 11.2 lb; for "A" type, 13.5 lb.

GENERAL ELECTRIC WATTHOUR DEMAND METERS



Type M-30 Demand Register

Single-phase and polyphase watthour meters can be equipped with Types M-30 or M-60 demand registers. To the price of the watthour meter add:

1. For 120-, 240-, and 277-volt models \$54.00 List Price
2. For 480-volt models 64.00 List Price

The demand-register time interval must be specified when ordering.



Type M-60 Demand Register

The Above Items Are Subject to 40% Discount

GENERAL ELECTRIC TYPE IB-10 PORTABLE STANDARDS, 60-CYCLE

This G-E standard combines, for the first time, the capacity essential for the testing of both high- and low-current-rated meters with the light weight and small size of the best low-capacity standards.

Wide operating range and excellent testing flexibility have been obtained by the use of four current coils. All coils will carry 20-per-cent current continuously. Thus, service meters of all ratings up to 100 amperes can be tested.

The Type IB-10 standard represents advancement in all details. It has a completely new electromagnet with low inherent errors and excellent load, voltage, and temperature characteristics. Excellent balance (accuracy) between current circuits is inherent in the design.

The IB-10 is the first standard to use the G-E anti-parallax arrangement of dial and pointers. This promotes speed and accuracy because the reading is always the same regardless of the angle from which the scale is viewed. The large sweep hand, coupled to the disk shaft, makes one revolution for each one of the disk. The antiparallax scale is divided into 100 clearly marked divisions in order that readings even closer than one one-hundredth of a revolution can easily be taken. Small dials within the large one make it possible to take readings up to 100 revolutions of the disk.

Volts	Amp	Cat. No.	List Price, Each	Approx. Wt. Lb	
				Net	Ship.
120-240	1, 5, 12.5, 50	99X943	\$575.00	11¾	16
120-240	1, 5, 15, 45	582X58	\$575.00	11¾	16
120-240	1.5, 3, 15, 30	851X13	\$575.00	11¾	16

Dimensions: height 8½ in., width 6¾ in., and depth 6½ in.

MULTIPLIER BOXES

Multiplier boxes are used to increase the voltage range. They are calibrated and furnished with the standard.

Single rating, 480 volts.....Add \$150 List
 Double rating, 480 and 600 volts.....Add \$250 List

GENERAL ELECTRIC TYPE MC PHASE-SHIFTING TRANSFORMERS

For Var (reactive volt-ampere) Metering



Class 10 watt-hour meters rated 120 or 240 volts can be used to measure reactive power; i.e., kilovar-hours when their potential coils are connected to a proper MC phase-shifting transformer. Use a Type MC-63, MC-65 or MC-66 transformer on the respective V-60, DS-50 or DS-60 meter. For example, an MC-63 transformer with a V-63, DS-53 or DS-63 meter.

Usually the var-hour meter should be equipped with a detent.

The transformers listed below are equipped with an internal test switch.

Voltage		Frequency, Cycles	Cat. No.	List Price, Each
Primary	Secondary			
Type MC-63, 3-wire, 3-phase				
120	120	50-60	700X84G1	\$48.00
240	240	50-60	700X84G2	48.00
Type MC-66, 4-wire Δ, 3-phase				
240	240	50-60	700X86G2	\$48.00
Type MC-65, 4-wire Y, 3-phase				
120	120	50-60	700X85G1	\$48.00

Other ratings and types are available. Information and prices upon request.

GENERAL ELECTRIC RECORDING DEMAND METERS

TYPE G-9 RECORDING DEMAND METER



These meters count impulses and record them on a round, wax-coated chart. A pen or stylus registers lines on the chart, visually recording a profile of the kilowatt demand over a definite time interval.

120-Volt, 60-Cycle, Bottom-connected Demand Meters

Chart Speed (No. days for one revolution)	Reset Time Interval in Minutes	Catalog No.		List Price, Each
		Form W	Form WI (Inverted)	
7	15	730X70G8	730X71G8	\$270
7	30	730X70G9	730X71G9	270
16	15	730X70G18	730X71G18	270
16	30	730X70G19	730X71G19	270
32	15	730X70G23	730X71G23	270
32	30	730X70G24	730X71G24	270



TYPES PD-55-F and PD-57-F PRINTING DEMAND METERS

These meters count impulses and numerically print the count at intervals on a pressure-sensitive tape. Interval timing is self-contained in the Type PD-57-F. The Type PD-55-F requires a separate contact-making clock.

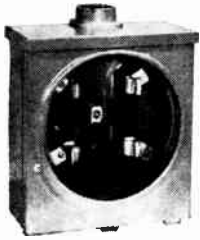
120-Volt, 60-Cycle, Back-connected Demand Meters

Time Interval (Minutes)	Type	Cat. No.	List Price, Each
With Self-contained Synchronous Timing Motor			
15	PD-57-F	730X54G13	\$690
30	PD-57-F	730X54G14	690
60	PD-57-F	730X54G15	690
For Use With Separate Contact-Making Clock			
....	PD-55-F	730X53G5	\$665

The Above Items Are Subject to 40% Discount

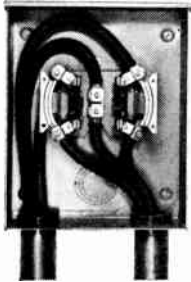
GENERAL ELECTRIC METER SOCKETS
SOCKETS FOR SINGLE-PHASE AND NETWORK METERS

Ringless Sockets§
4-Jaw
Type SI-60 Steel



Height of Socket (inches)	Threaded Hubs		Without Circuit-closing Device	
	Size (in.)	No.	Cat. No.	List Price, Each
100-ampere Socket				
8 ⁷ / ₁₆	1 ¹ / ₄	1	741X1G3	\$7.10
10 ³ / ₁₆	1 ¹ / ₄	1	741X2G3	7.40
200-ampere Socket without Manual By-pass				
12 ³ / ₁₆	2	1	741X7G11	\$12.50
14 ³ / ₁₆	2	1	741X8G11	13.40
200-ampere Socket with Manual By-pass				
12 ³ / ₁₆	2	1	741X7G26	\$17.40
14 ³ / ₁₆	2	1	741X8G26	18.30

Underground Ringless Sockets§
4-Jaw
Type SI-60 Steel



200-ampere socket mounted and wired (cover removed).

Height (Inches)	Width (Inches)	Cat. No.	List Price, Each
8 ⁷ / ₈	8 ³ / ₁₆ †	741X1G152	\$ 7.10
10 ³ / ₁₆	8 ³ / ₁₆ †	741X2G109	7.40
200-ampere Socket without Manual By-Pass			
15 ⁷ / ₃₂	10 ¹ / ₂	741X20G1	\$19.20
15 ⁷ / ₃₂	12 ¹ / ₄ ¶	741X16G1	21.00
200-ampere Socket with Manual By-Pass			
15 ⁷ / ₃₂	10 ¹ / ₂	741X20G2	\$24.10
15 ⁷ / ₃₂	12 ¹ / ₄ ¶	741X16G2	25.90

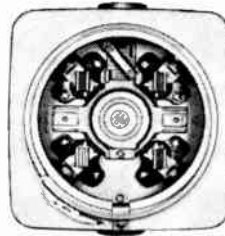
†Two sets (1-1¹/₄-1¹/₂-2 in.) of knockouts in bottom.
 ‡Three sets (1-1¹/₄-1¹/₂-2 in.) of knockouts in bottom.
 ¶Six sets (1¹/₂-2-2¹/₂ in.) of knockouts, three in bottom.

§ The Type SI-60 ringless sockets shown above can also be used with Type V-62-S network meters by simple insertion of a 5th-jaw assembly Cat. No. 9688886, \$0.80 list, each.

SOCKETS FOR POLYPHASE METERS
Type SV-60 Ringless Sockets

These outdoor Type SV-60 sockets are for use with transformer-rated (Class 10) and self-contained (Classes 100 and 200) polyphase watt-hour meters having 7, 8, or 13 blades. The socket connectors are suitable for use with either copper or aluminum wire.

Square Sockets
Die-cast
Type S-1 100-amp
Vertical or Horizontal Mounting



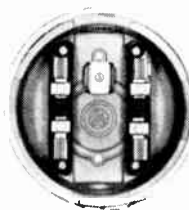
S-1 square socket with cover, 4-jaw

To convert from vertical to horizontal mounting:

1. Remove socket cover.
2. Interchange adjacent line jaws.
3. Interchange adjacent load jaws.
4. Rotate meter socket 90 degrees (so that hubs appear on sides, rather than on top, of socket).
5. Replace cover so that rain lip is on top and locking clip is on bottom.

Threaded Hubs		Without Circuit-closing Device	
Size (inches)	No.	Cat. No.*	List Price, Each
4-jaw Sockets for Single-Phase Meters			
1 ¹ / ₄	1	696X74	\$8.00
1 ¹ / ₂	1	696X83	8.00
1 ¹ / ₄	2	641X97	\$8.00
1 ¹ / ₂	2	643X27	8.00

Round Sockets
Die-cast
Type R-2 100-amp
Vertical Mounting



R-2, 4-jaw

Threaded Hubs	Without Circuit-closing Device (4-jaw)		With Circuit-closing Device (5-jaw)	
	Cat. No.*	List Price, Each	Cat. No.*	List Price, Each

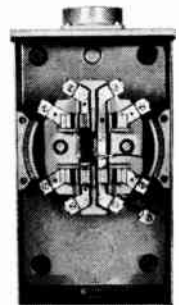
With 1-inch Hubs				
2	550X62	\$6.40	677X50	\$11.30

With 1¹/₄-inch Hubs				
2	550X67	\$6.40	677X51	\$11.30

* Sockets have snap-action sealing ring.



SV-60 Socket with V-64-S meter installed



SV-60 Socket with cover removed

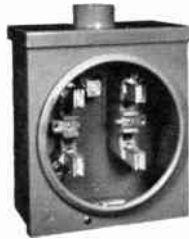
Transformer-rated				100-ampere				200-ampere							
Type By-pass	Hub Size (Inches)	Cat. No.	List Price, Each	Type By-pass	Hub Size (Inches)	Cat. No.	List Price, Each	Type By-pass	Hub Size (Inches)	Cat. No.	List Price, Each				
7-jaw Sockets (For use with Types V-64-S, V-65-S, and V-66-S Meters)															
Automatic circuit closer	1 ¹ / ₄	741X18G70	\$24.50	None	1 ¹ / ₄	741X18G11	\$20.50	None	2	741X30G1	\$46.10				
					2	741X18G13	20.70		2 ¹ / ₂	741X30G2	47.10				
				Manual	1 ¹ / ₄	741X18G23	27.90	1 ¹ / ₄	2	741X18G25	28.10	Manual	2	741X30G3	50.60
									2	741X18G25	28.10		2 ¹ / ₂	741X30G7	53.50
								2	2	741X30G8	54.50	2	2	741X30G9	58.00
8-jaw Sockets (For use with Type V-63-S Meters)															
Automatic circuit closer	1 ¹ / ₄	741X18G82	\$24.90	None	1 ¹ / ₄	741X18G35	\$20.90	None	2	741X30G4	\$48.10				
					2	741X18G37	21.10		2 ¹ / ₂	741X30G5	49.10				
				Manual	1 ¹ / ₄	741X18G47	25.80	1 ¹ / ₄	2	741X18G49	26.00	Manual	3	741X30G6	52.60
									2	741X18G49	26.00		2	741X30G10	53.00
								2	2	741X30G11	54.00	2	2	741X30G12	57.50
13-jaw Sockets (For use with Types V-64-S, V-65-S, and V-66-S Meters)															
Automatic circuit closer	1 ¹ / ₄	741X18G94	\$44.50												

The Above Items Are Subject to 52% Discount

ANCHOR ELECTRIC METERING PRODUCTS

100 AMP. METER SOCKETS
For Socket Type Meters

Single Phase Ring Type



SU-9512 \$8.20
8" H x 7" W x 3" D

Single Phase Ringless



URS-104 H4D \$10.70
10" H x 8" W x 3 1/8" D

Single Phase Under-ground Ring Type



U-9710-UG \$11.90
12 1/2" H x 7 1/2" W x 3 1/4" D

Single Phase Ring Type Semi-Flush



U-9610F \$14.50
9" H x 9 1/2" W x 5 3/8" D

4 to 5 terminal, mounts outdoor or indoor, surface or flush, available in steel and aluminum, with interchangeable hub or hub plate, and SR-2 ring, U.L. listed.

200 AMP. METER SOCKETS
For Socket Type Meters

Single Phase Ring Type



U-1904 H4 \$17.40
14" H x 8" W x 4 3/8" D

Single Phase Ringless



URS-1904-ML-H4 \$22.70
14" H x 8" W x 4 3/8" D

Single Phase Under-ground Ringless



URS-1394 \$21.00
14" H x 11" W x 4 1/2" D

Single Phase Ring Type Semi-Flush

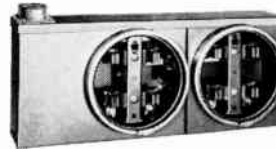


U-1904-F \$22.00
15" H x 9 1/2" W x 4 1/8" D

4 or 5 terminal, mounts outdoor or indoor, surface or flush, galvanized steel with interchangeable hub or hub plate and SR-2 ring. Standard bypass arrangements available. U.L. listed.

100 AMP. MULTIPLE METER TROUGH

Horizontal



2 Gang U-6272L H2 \$28.70
3 Gang U-6273L H2 43.20

Vertical



U-6262 HP
U-6263 HP

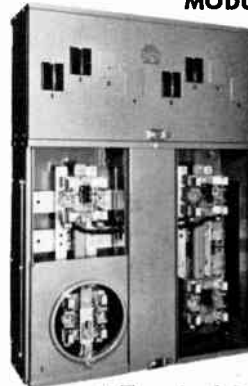
100 amp. multiple meter trough, 4 or 5 terminal, surface mounting, horizontal and vertical, outdoor raintight, with interchangeable hub or hub plate, SR-2 ring, U.L. listed.

STANDARD METER SOCKET ACCESSORIES

No. 8855 Fifth terminal **\$1.20**
No. 9955 Fifth terminal for horizontal troughs **1.20**

No.	Size	Each	No.	Size	Each
H1	1" Hub	\$1.20	H4	2" Hub	\$1.20
H2	1 1/4" Hub	1.20	H5	2 1/2" Hub	2.00
H3	1 1/2" Hub	1.20	HP	Hub Plate	1.00

MODULAR METER PANELS



TBL Plug-In Breaker Combination

125 ampere meter socket rated 600 volt, 4 or 5 terminal, with 2-pole plug-in breaker, vertical meter socket trough, 600 ampere horizontal aluminum main bus, wire bussing from meter socket to breaker, top (specify TBLT) or bottom mounted (specify TBLB), SR-2 ring and tie-bus connection kit.

Matching line of main disconnect switch or breaker, pull boxes and branch breakers, bolt down and fused pullout branch circuits up to 200 ampere are also available.

4 Terminal Meter Socket — 120/240 Volt
1 Phase, 3 Wire

—Dimensions— Depth 6"	High	Wide	No. of Loc.	Breaker Box At Top ^① Cat. No.	Breaker			
					15-60 Amp.	70 Amp.	100 Amp.	125 ^② Amp.
Single Module								
33"	13 1/2"		2	TBLTS-264	\$96	\$110	\$120	\$173
43"	13 1/2"		3	TBLTS-364	131	154	169	244
53"	13 1/2"		4	TBLTS-464	166	196	216	313
Double Module								
33"	22 1/2"		4	TBLT-464	186	214	234	344
43"	22 1/2"		5 ^①	TBLT-564	243	271	292	403
43"	22 1/2"		6	TBLT-664	249	284	309	444
53"	22 1/2"		7 ^①	TBLT-764	315	362	401	589
53"	22 1/2"		8	TBLT-864	322	375	418	630

5 Terminal Meter Socket — 120/208 Volt
3 Phase, 4 Wire
Single Module

33"	13 1/2"		2	TBLTS-265	109	123	133	186
43"	13 1/2"		3	TBLTS-365	146	170	184	260
53"	13 1/2"		4	TBLTS-465	182	212	232	330
Double Module								
33"	22 1/2"		4	TBLT-465	202	230	250	360
43"	22 1/2"		5 ^①	TBLT-565	246	274	295	407
43"	22 1/2"		6	TBLT-665	268	303	328	463
43"	22 1/2"		7 ^①	TBLT-765	338	384	423	611
53"	22 1/2"		8	TBLT-865	344	397	440	652

① Lower right location provided with blank cover.
② Solderless connectors #4 — #1 AWG copper only.
③ Bottom mounted breaker box. Change prefix to "TBLB".
④ Units shipped with AB phase connected. BC or CA phasing can be made in field by repositioning connection link between vertical bus and C phase.

BROOKS PLASTIC PADLOCK SEAL



design requires no sealing tool. Plastic will not corrode, while its light weight makes for easier handling.

Plastic Padlock Seals feature colors for coding and a partial assembly for preventing tangling of hasps. The unique, self-locking

Price on Application

GENERAL ELECTRIC

HOOK-ON VOLT-AMMETERS

General Electric Types AK-4 and AK-5 hook-on volt-ammeters indicate a-c volts when attached to circuit by leads provided, and a-c amperes when hook is placed around current-carrying conductor. Each unit comes with 3½-foot voltmeter leads, and a black-leather carrying case.



FEATURES

- Single scale for each range.
- One-hand operation.
- Low current range—5 amperes.
- Pointer-stop mechanism—(AK-4 only) for measuring starting current surges and voltages at short duration.
- Insulated hook—eliminates possible grounding.
- Wound hook—minimizes position error.
- Dovetail joint—reduces possibility of errors due to dirt in gap or improper closing of hook.
- Shock resistant—case is molded of rubber phenolic.
- Screw-in voltage leads—provides maximum safety to operator.

Type No.	Range of Measurement	Catalog Number	List Price, Each
AK-4	10 /30 /100 /300 /800 amp a-c 150 /300 /750 volts a-c	583X63	\$ 39.00
AK-5	5 /20 /80 /350 amp a-c 150 /300 /750 volts a-c	583X64	64.00

BUSADA PLASTIC WATTHOUR METER COVERS



Cuts replacement costs. Constructed of unbreakable clear plastic. Will not shatter.

Withstands rough usage. Has high impact strength. Resists outdoor weathering.

Easier to install — safe to handle.

A seal-tight rim eliminates the use of a gasket. Provision is made for tamper-proof integral locking.

Price on Application

SQUARE D VOLTAGE TESTER



The Square D Voltage Tester is the safest, most durable, most dependable voltage tester ever made. It may be dropped, jolted and generally mistreated and yet will still indicate the correct voltage. Both the 5008 (non-fused) and the 5008-S (fused) voltage testers are designed for daily general purpose testing of secondary residential, commercial and industrial circuits with extreme reliability.

APPLICATION: For secondary distribution systems rated from 110-550 volts AC at 60 cycles and from 125-600 volts DC.

SPECIFICATIONS: Mechanism: Solenoid type with magnetic polarity indicating cap. Construction: One piece molded case with slotted receptacle for mounting prods. 30 inch oil resisting rubber covered leads. Easy-to-read, color-coded, non-metallic indicating scale. 6 inch probe with retractable prod cover. Rating: AC — 110-220-440-550 volts, DC — 125-250-600 volts.

Description	Catalog Number	Price
Tester 110-220-440-550 V. AC 60 Cycle, 125-250-600 V. DC.	5008	\$8.25
Tester Same as 5008 Except with Fused Prods.	5008S	8.75
Case Laminated Vinyl.....	5002	1.00
Case Leather.....	5002D	2.00

*Whenever you need anything electrical,
always call GRAYBAR first!*

AMPROBE INSTRUMENTS

ROTARY SCALE MODELS

Offer you these outstanding features. • Only the Ohms scale plus one voltage scale or current scale is visible at any one time, providing greater reading speed and accuracy; on models other than RS-3 or RS-1000 only scale selected appears. • Magnified unbreakable window. • Pointer-lock "freezes" pointer at reading. • Accurate within $\pm 3\%$ full scale reading. • One hand operation.



MOEEL	RANGES	PRICE
RS-1	0-6/15/40/100 Amps A.C. 0-150/600 Volts A.C.	\$43.85
RS-2	0-6/15/40/100 Amps A.C. 0-150/300 Volts A.C.	\$43.85
RS-3	0-6/15/40/100/300 Amps A.C. 0-150/300/600 Volts A.C. 25 Ω Mid-Scale	\$57.50
RS-300	0-6/15/40/100/300 Amps A.C. 0-150/300/600 Volts A.C.	\$52.50
RS-1000	0-15/40/100/300/1000 Amps A.C. 0-150/300/600 Volts A.C. 25 Ω Mid-Scale	\$76.50

Price includes Carrying Case and Test Leads.

AMPROBE® TEST-MASTER KITS

Truly the sign of the professional, these good-looking rugged, sturdy cases contain all the equipment you need to do all your electrical testing jobs with precision and accuracy. The Test-Master has a separate covered section to hold your small hand tools easily within reach.



CONTAINS:	Model TM-33	Model TM-43	Model TM-53
RS-1	—	—	—
RS-3	one	one	one
PSA-1	—	one	one
Energizer	one	one	one
Deca-Tran A50-1	one	one	—
Price	\$94.50	\$103.85	\$76.85

PHASE SEQUENCE ADAPTOR

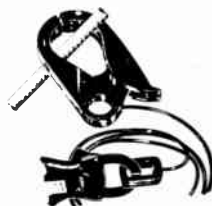


The Model PSA-1 Phase Sequence Adaptor is used to determine the phase sequence of polyphase circuits. When used in conjunction with any AMPROBE RS model it permits you to determine phase sequence of motors and other electrical equipment using three phase lines up to 550 volts. Price w/ case: \$11.85

AMPROBE® DECA-TRAN

The Model A-50-1 AMPROBE Deca-Tran can be used with any model AMPROBE to extend the amperage ranges 10 times up to 1200 amps, intermittent, 600 amps continuous.

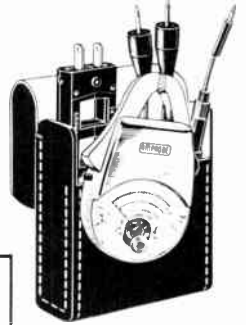
Model A-50-1 w/2' Line Cord Price: \$30.50



AMPROBE® JUNIOR TEST-MASTER KITS

The AMPROBE Jr. Test-Master Kit consists of a specially designed leather case that contains one of the all new YO AMPROBE Jr. voltage testers, an AMPROBE Energizer, battery attachment and test leads.

The New YO models are the only precision instruments in their price class that measure voltage, amperage and resistance, instantly and accurately on a calibrated scale. Price: \$37.85



MODEL	3 AMMETER RANGES (full scale) BASIC INST.	2 VOLTAGE RANGES
TM-YO "525"	0-25	0-150/600
TM-YO "550"	0-50	0-150/600
TM-YO "500"	0-100	0-150/600
TM-YO "25"	0-25	0-125/250
TM-YO "50"	0-50	0-125/250
TM-YO "100"	0-100	0-125/250

OHMMETER RANGE: 25 Ohms Mid-Scale
Frequency—60 cycles A.C. (other frequencies available)

AMPROBE® JUNIOR "YO" MODELS

The only precision instruments in their price class that measure voltage, amperage and resistance instantly and accurately on a calibrated scale. Price w/test leads: \$27.50 P-1 and K cases available. Order separately.

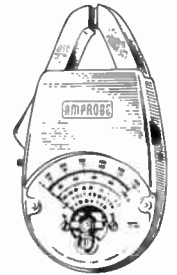
MODEL	AMPS, AC	VOLTS, AC
YO "525"	0-25	0-150/600
YO "550"	0-50	0-150/600
YO "500"	0-100	0-150/600
YO "50"	0-50	0-125/250

OHMMETER RANGE: 25 Ohms Mid-Scale

AMPROBE® JUNIOR

An advanced snap-around volt-ammeter that everyone can afford. Price w/test leads: \$22.50 P-1 and K cases available. Order separately.

MODEL	AMPS, AC	VOLTS, AC
Y25	0-25	0-125/250
Y50	0-50	0-125/250
Y500	0-100	0-150/600
Y525	0-25	0-150/600
Y550	0-50	0-150/600

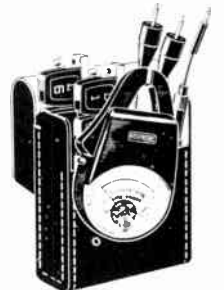


AMPROBE® JUNIOR LINE-PROBE

Unique, versatile four-in-one pocket-sized tester. Not only lets one man trace up to 10 circuits at one time... it measures voltage ($\pm 3\%$ FS)... gives current readings "in-a-snap"... and checks for continuity. Pick from four models... all furnished with 10 station markers, two station marker holders, voltage leads, grounding leads, fused battery attachment and case.

Price: \$38.50

MODEL	VOLTS, AC	AMPS, AC
ALP50	0-125/250	0-50
ALP550	0-150/600	0-50



AMPROBE® ENERGIZER

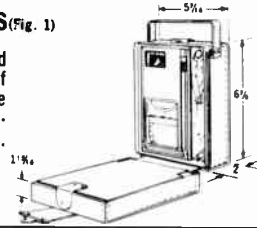
The Model A-45L ENERGIZER permits current readings on permanently wired low-current electrical equipment by simplifying series connection. It increases the sensitivity of your ammeter 5x or 10x for more precise readings directly at outlets by "splitting" double conductor line cords while the appliance is connected to the line. Capacity 10 amps. Price w/weatherproof pouch: \$6.75



AMPROBE SERVICE AND INDUSTRIAL RECORDERS

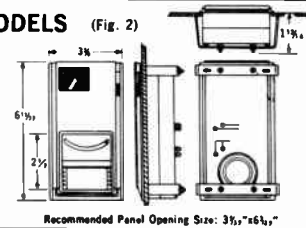
CASED MODELS (Fig. 1)

Supplied with permanently attached motor line cord and one roll each of necessary strip charts. Meter line cord, extensions, adaptors, transducers, etc. supplied when indicated.



FLUSH-MOUNTING MODELS (Fig. 2)

Supplied with one roll each of necessary strip charts and mounting hardware. Transducers, probes, etc. supplied when indicated. Motor leads not furnished.



*Indicates the availability of this model in flush-mount version. Ranges and Specifications same as Leather cased models. See fig. 2 for configuration First prefix letter "L" of model number indicates Leather Cased. Prefix letter "F" indicates Flush-Mounting.

AC VOLTMETERS		
Model No.	Description	Range
LAV2X* \$98.85	Dual Range, Expanded Scale AC Voltmeter.	95-130 Volts AC 190-260 Volts AC
LAV3X* \$124.85	Three Range, Expanded Scale AC Voltmeter.	95-130 Volts AC 190-260 Volts AC 380-520 Volts AC
LAV8600* \$98.85	Three Range, AC Voltmeter.	0-150/300/600 Volts AC
AC AMMETERS		
LAA81* \$109.85	AC Ammeter. With A-70FL Transducer	0-10/50/250/500 Amps AC
LAA82* \$104.85	AC Ammeter. With A-60FL Transducer	0-5/25/100/250 Amps AC
LAA830* \$107.85	AC Ammeter. For use with external current transformer 2VA (Not supplied).	0-5 Amps AC Scale: 0-150/300/600
LAA840* \$107.85		0-5 Amps AC Scale: 0-200/400/800
LAA850* \$107.85		0-5 Amps AC Scale: 0-100/250/500
AC VOLT/AMMETERS		
LAVA81* \$148.85	AC Volt/Ammeter. With A-70FL Transducer	Volts: 95-130; 190-260 Amps: 0-10/50/250/500
LAVA82* \$143.85	AC Volt/Ammeter. With A-60FL Transducer	Volts: 95-130; 190-260 Amps: 0-5/25/100/250
LAVA83* \$169.85	AC Volt/Ammeter. With A-70FL Transducer	Volts: 95-130; 190-260; 380-520 Amps: 0-10/50/250/500
LAVA84* \$164.85	AC Volt/Ammeter. With A-60FL Transducer	Volts: 95-130; 190-260; 380-520 Amps: 0-5/25/100/250
TEMPERATURE RECORDERS		
All models supplied with appropriate probe.		
LT8100* \$103.85	Dual Range Temperature Recorder. With FL-RBT-1 Probe.	-50° to +100°F +50° to +250°F
AC WATTMETERS		
Furnished with calibrated transducer, Energizer, leads and probe tips.		
LAW50 \$149.85	Basic Four Range AC Wattmeter	0 to 2.5 kw (115v, 0 to 25 Amps); 0-5 kw (115v, 20-50 Amps); 0-5 kw (230v, 0-25 Amps); 0-10kw (230v, 20-50 Amps).

DC MICROAMMETERS		
Model No.	Description	Range
LDC850* \$101.85	DC Microammeter (Tautband Movement). Resistance: 900Ω	0-50ua DC
LDC8100* \$95.85	DC Microammeter. Resistance: 2750Ω	0-100ua DC
LDC8500* \$89.85	DC Microammeter. Resistance: 103Ω	0-500ua DC
DC MILLIAMMETERS		
LDB81* \$89.85	DC Milliammeter. Resistance: 30Ω	0-1 ma DC
DC AMMETERS		
For use with 50 mv shunts. Furnished with calibrated (0.065Ω) five foot leads.		
LDM830* \$95.85	DC Millivoltmeter. Resistance: 10Ω	0-50 mv DC Scale: 0-30 Amps DC
LDM840* \$95.85		0-50 mv DC Scale: 0-40 Amps DC
LDM850* \$95.85		0-50 mv DC Scale: 0-50 Amps DC
PYROMETERS		
Not supplied with Thermocouples.		
LP8400* \$149.85	Three Range Pyrometer. (External Resistance: 3.50Ω) Uses Iron-Constantan Type J Thermocouples.	0° to 400°F 0° to 800°F 0° to 1200°F
LP81000* \$109.85	Pyrometer. (External Resistance: 6.07Ω) Uses Iron-Constantan Type J Thermocouples.	0° to 1000°F 0° to 530°C
LP82000* \$109.85	Pyrometer. (External Resistance: 10.34Ω) Uses Chromel Alumel Type K Thermocouples.	0° to 2000°F 0° to 1080°C
"SELECTRO-PRINT" RECORDERS		
Designed to print only on a signal from an external source.		
These Recorders are available in most of the above flush-mounting models. Write factory for details on prices and specifications.		
EVENTS RECORDERS		
Designed to monitor and document from one to 10 separate operations.		
LEV10* \$120.85	Events Recorder, 10 channel operation.	
LDL10 \$178.85	DIRECT-O-LOG® Recorder. Features 10 self-clearing channel selector buttons with lights.	

AMPROBE® RECORDER STRIP CHARTS

Individually packaged 30' chart rolls packed six (6) to a box. Sold in multiples of six (6) only. \$1.50 per Roll

Type	Cat. No.	Description	For Use With Model No.
Voltage	835X3A	Marked: 95-130/190-260/380-520 Volts AC	LAV2X, FAV2X, LAV3X, FAV3X, LAVA81, FAVA81, FAVA82, LAVA82, FAVA83, LAVA83, FAVA84, LAVA84
	830AV600	Marked: 0-150/300/600 Volts AC	LAV8600, FAV8600
	840X2	Marked: 165-245/330-490 Volts AC.	LAV4X, FAV4X, LAVA85, FAVA85, LAVA86, FAVA86
Current	850A	Marked: 0-5/25/100/250 Amps AC	LAA81, FAA81, LAA82, FAA82, LAVA81, FAVA81, FAVA82, LAVA82, FAVA83, FAVA83, LAVA84, FAVA84, LAVA85, FAVA85, LAVA86, FAVA86
	830AA	30 Division for AC Amperes. Marked: 0-150/300/600/1200	LAA830, FAA830
	840AA	40 Division for AC Amperes. Marked: 0-200/400/800	LAA840, FAA840
	850AA	50 Division for AC Amperes. Marked: 0-100/250/500	LAA850, FAA850
DC Variable	850D	50 Division for DC variables. (Millivolts, Milliampers, Microamps). Marked: 0-1/5/25; 25-0-25	LDM850, FDM850, LDC850, FDC850, LDC8100, FDC8100, LDC8500, FDC8500, LDB81, FDB81
	840D	40 Division for DC variables. (Millivolts, Milliampers, Microamps). Marked: 0-20/40/80; 20-0-20	LDM840, FDM840
	830D	30 Division for DC variables. (Millivolts, Milliampers, Microamps). Marked: 0-15/30/60; 15-0-15	LDM830, FDM830
Kilowatts, AC	850AW	Marked: 0-2.5/0-5/0-10 KW, AC	LAW50
	840F	Marked: 0°F to 400°F; 0°F to 800°F; 0°F to 1200°F	LPB400, FPB400
Pyrometer	850P1&2	Marked: 0°F to 1000°F; 0°F to 2000°F	LPB1000, FPB1000, LPB2000, FPB2000
	856C1	Marked: 0 to 530°C	LPB1000, FPB1000
	857C2	Marked: 0 to 1080°C	LPB2000, FPB2000
	823T1	Marked: -50°F to +100°F	LT8100, FT8100
Temperature	833T2	Marked: +50°F to +250°F	LT8100, FT8100
	EV10	Marked from 0 to 10	LEV10, FEV10, LOL10

SPECIFICATIONS

- Accuracy:**
 DC Instruments: ±2% FS
 AC Instruments: ±3% FS
 AC Expanded Scale Voltmeters: ±1.25% FS
 AC Voltmeters: ±3% FS
 AC Wattmeters: ±5% FS
 Pyrometers: ±3% FS
- Temperature Recorders:**
 High Range: +50°F to +250°F: ±5°F
 Low Range: -50°F to +20°F: ±4°F
 +20°F to +100°F: ±3°F
- Strip Chart Size:** 2 1/4" wide x 30' long.
- Standard Chart Speeds:** 1 inch or 12 inches per hour. (Other speeds available.) Unless otherwise specified 12 inches per hour chart speed will be shipped.
- Impression Rate:** Once every 5 seconds at 12 inches per hour.
 Once every minute at 1 inch per hour.
- Power Requirements:** 115v AC, 60 cycles. 2.5 Watts. (Unless otherwise specified.)

BIDDLE ELECTRICAL TESTING AND SPEED MEASURING INSTRUMENTS

MEG TYPE OF MEGGER® INSULATION TESTERS



The hand-operated model shown, rectifier-operated instruments and dual-operated testers are available with ranges up to 10,000 megohms and 1000 volts d-c. All available with divide by 10, ohm scale, and capacitance discharge switch.

Cat. No.	Description	Each
7679-1	0 to 1000 megohms, 500 volts d-c, complete with No. 7699 Fabrikoid Case and 12 ft. leads	\$370.00

MAJOR MEGGER® INSULATION TESTER



For the great majority of insulation and continuity tests. Four voltages (100, 250, 500 and 1000 volts) in the 200 megohm low range model and three voltages (250, 500 and 1000 volts) in the 2000 megohm high range instrument. Ohm scales for continuity measurements also included on both models.

Cat. No.	Range	Each	Cat. No.	Range	Each
70154	Low	\$250.00	70158	High	\$275.00

Both models complete with case and 12 ft. leads.

MARK III MEGGER® INSULATION TESTER



A handy, constant voltage tester available with 100 megohm range at 500 volts d-c. Ohm scale with range to 10,000 ohms also available. The convenient camera-type case contains instrument and test leads — operate without removing case.

Cat. No.	Test Voltage	With leather case & 12 ft. leads
805	500	\$140.00
With Ohm Scale and Selector Switch		
805-1	500	165.00

BATTERY MEGGER® TESTER



This new, completely transistorized, portable testing instrument provides continuous measurement from 0 to 5 megohms for resistance tests and 0 to 200 megohms for insulation tests. It is powered by six size AA (Penlite) cells.

Applications include testing of all forms of electrical equipment, electronic components and wiring circuits. Ideally suited for making insulation resistance tests in accordance with the National Electrical Code.

Cat. No.	Description	Each
822	0 to 200 megohms, 500V. DC	\$125.00

Complete with leads and leather case.

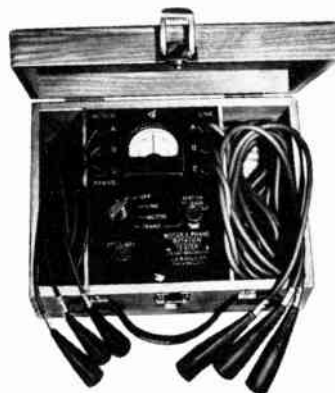
MEGGER® (NULL BALANCE) EARTH TESTER



A new, highly sensitive method of measuring earth resistance. The accuracy of this instrument is not affected by electrode resistance up to 1500 ohms — a guard terminal is provided for use when probe resistances are above 1500 ohms. The range is 0.1 ohm to 9990 ohms in four overlapping ranges. Accuracy ± 1% of range in use — digital read-out at a glance.

Cat. No.	Description	Each
63220	Megger Earth Tester	\$290.00
63850	Leather Case	35.00
63579	Accessory Kit consisting of No. 63578 Carry-all, No. 63576 Leads and No. 63580 Ground Rods	80.00

MOTOR ROTATION TESTER



For determining:
 ... direction of rotation 1-, 2-, or 3-phase motors before connecting to line.
 ... phase rotation or sequence of energized power circuits.
 ... polarity of instrument and power transformers.
 ... phase and polarity of unmarked windings in motors.
 Connect at once — correctly — any size motor. Also use it to test circuits, check phase sequence and identify windings or multi-speed or multi-voltage motors.

Cat. No.	Description	Each
80060	50 and 60 Cycles (0-600 volts)	\$130.00

BIDDLE SPEED INDICATORS



Biddle Chronometric Speed Indicators indicate average speeds directly, without any calculations for speeds up to 100,000. The spindle is set in ball bearings and requires no lubrication.

Cat. No.	Range RPM		Each
	Large Dial	Small Dial	
9915	0 to 100	0 to 1000	\$65.00
9920	0 to 1000	0 to 10,000	65.00

BIDDLE ELECTRICAL TESTING AND SPEED MEASURING INSTRUMENTS

TACHOMETERS



These easy-to-read and handy tachometers for continuous speed readings have accuracies of within $\pm \frac{1}{2}\%$ of full scale deflection of the selected range. On the Cat. 461 the range-changing device on the barrel is color coded to the three range figures on the scale for quick identification and reading.

Both instruments have open easy-to-read scales.

Cat. No.	Range	Each
	Eddy-Current Type — 3 Ranges	
461	0 to 800, 0 to 1600, 0 to 4000.....	\$115.00
	Centrifugal Type — 5 Ranges	
554	30 to 120, 100 to 400, 300 to 1200, 1000 to 4000, 3000 to 12,000.....	95.00

FRAHM RESONANT REED TACHOMETERS



For checking speeds quickly and accurately without contacting moving parts. They are safe and dependable. No moving parts to wear out — no maintenance — no oiling.

Cat. No.	Range RPM	Each
2516	1000 to 4000 (2 rows of 21 reeds).....	\$ 50.00
3205	1000 to 6000 (2 rows of 61 reeds).....	145.00

FRAHM RESONANT REED FREQUENCY METERS



The inherent simplicity low cost and unflinching accuracy of these instruments has earned wide acceptance for them in many fields. Even in applications requiring continuous operation for many years they perform accurately and dependably with little or no adjustment, maintenance, or repair of any kind.

With new techniques, employing improved methods of tuning and fabrication, our standard instruments have consistently outperformed comparable equipment under varying conditions. Standard meters have a permanent accuracy of 0.3% calibrated to 0.2%.

Cat. No.	Range CPS	Size	Each
2997	(115 v.) 380 — 420	2 1/2"	\$44.00
4967	(115 v.) 55 — 65	3 1/2"	31.00

15 KV DIELECTRIC TEST SET

15 kv/2-5 ma



Maximum output current 2 ma for continuous and 5 ma for 12 min service. This set is designed for maximum safety with all protection devices. It is easily portable (37 lbs.) and is built for withstanding hard service in the field without lowering performance standards.

Cat. No.	Output	Each
22015	0-15 kv	\$790.00

**SIMPSON MULTI-TESTERS
AC-DC VOLT-OHM MILLIAMMETER**



20,000 Ohms per volt DC—
5,000 Ohms per volt AC.

Voltage Ranges

DC: 0-250 mv; 0-2.5v; 0-10v; 0-50v; 0-250v; 0-1000v;
0-5000v.

AC: 0-2.5v; 0-10v; 0-50v;
0-250v; 0-1000v; 0-5000v.

AF: 0-2.5v; 0-10v; 0-50v;
0-250v.

DB: —20 to +10 db; —8 to +22 db; +6 to +36 db; +20 to +50 db. (1MV—600 ohms.)

Current Ranges

DC: 0-5ua; 0-1 ma; 0-10 ma; 0-100 ma; 0-500 ma; 0-10 amps.

Resistance Ranges

0-2000 ohms (12 ohms center); 0-2000K ohms (1200 ohms center); 0-20 meg. (120K ohms center.)

Accuracies

DC volts $\pm 3\%$ F.S.; AC volts $\pm 5\%$ F.S.; DC resistance $\pm 3\%$ of arc from absolute value of resistance measured.

Size: 5 1/4" x 7" x 3 1/8". Weight: 3 1/2 lbs. With roll-top safety case; test leads and operator's manual.

Model 260RT AC-DC VOM.....each \$64.00

MODEL 230 AC-DC VOLT-OHM-MILLIAMMETER



The small size of Model 230 VOM makes it a handy, multipurpose appliance tester in shop or home. You can use it for checking shorts in home wiring, motors, starting condensers and switches, relays, light switches, thermostats, solenoids, light cords, control equipment, etc.

AC Volts: 10,250,1000 (400 ahms per volt). DC Volts: 10,50,250,1000 (1000 ohms per volt). DC Milliamperes: 10,50,250. Ohms: 0-1000, 0-100,000.

Model 230 AC-DC VOM.....each \$40.00

MIDGETESTER AC-DC VOLT-OHMMETER

Rugged core magnet meter movement. Ideal for appliance repair, radio-TV service, etc. Self shielded. Fits easily into shirt pocket.



Voltage Ranges

DC: 3v; 12v; 60v; 300v; 1200v.
AC: 3v; 12v; 60v; 300v; 1200v.

Resistance Ranges

0-10K ohms (120 ohms center); 0-100K ohms (1200 ohms center); 0-1 megohms (12K ohms center); 0-10 megohms (120K ohms center).

Accuracies

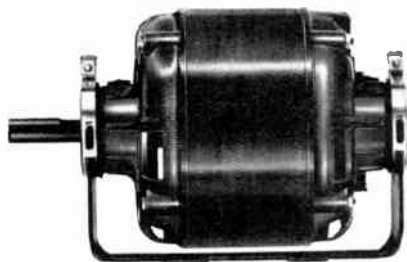
DC volts $\pm 3\%$ F.S.; AC volts $\pm 5\%$ F.S.; DC resistance $\pm 3\%$ of arc from absolute value of resistance measured.

Size: 2 3/4" x 4 1/2" x 1". Weight: 10 oz. Complete with test leads and operator's manual.

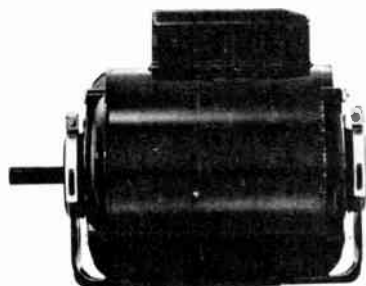
Model 355 Midgetester.....each \$47.00
No. 6355 Leather Zip Case.....each 5.00

EMERSON ELECTRIC MOTORS

40°C BELTED FAN AND BLOWER MOTORS



Split-Phase, Resilient Mount



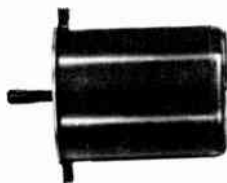
Capacitor Start, Resilient Mount

Resilient base, automatic overload protector, sleeve bearing, reversible. Convenient terminal board. Quiet, smooth operation.

Cat. No.	H.P.	Volts	Shaft Dia., In.	NEMA Frame	Each
Split-Phase — 1725 R.P.M.					
2764	1/8	115	5/8	A56	\$15.24
839	1/8	115	1/2	Y48	15.24
2765	1/4	115	5/8	A56	16.41
4252	1/4	115	1/2	A56Z	16.41
840	1/4	115	1/2	A48	16.41
1194*	1/4	115	1/2	48/56	16.41
2766	1/3	115	5/8	C56	19.05
2766H	1/3	230	5/8	C56	20.22
841	1/3	115	1/2	C48	19.05
8412	1/3	230	1/2	C48	20.22
1193*	1/3	115	1/2	48/56	19.05
3957	1/2	115	5/8	Y56	26.66
4114	1/2	115/230	5/8	Y56	28.13
3958	3/4	115	5/8	E56	34.57
4115	3/4	115/230	5/8	E56	36.04
Split-Phase — 1725/1140 R.M.P.					
1340	1/8	115	1/2	A48	19.92
919	1/4	115	1/2	C48	23.15
920	1/3	115	1/2	E48	29.59
4293	1/2	115	5/8	E56	37.80
Capacitor-Start — 1725 R.P.M.					
179	1/4	115	1/2	A48	21.68
180	1/3	115/230	1/2	C48	25.78
1114	1/2	115/230	5/8	E56	33.40
1893	3/4	115/230	5/8	I56	.....
1769	1	115/230	5/8	G56	46.88

*5/8" shaft adapter packed with motor.

OIL BURNER MOTORS



Totally enclosed oil burner motors with manual overload protector. Quick reversing feature, quick connect terminals. U.L. and NEMA performance and dimensions. Quiet, dependable service.

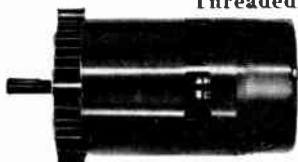
55°C Split-Phase — 115V — 1725 R.P.M. — Sleeve Bearing

Cat. No.	H.P.	Shaft Dia., In.	NEMA Frame	Each
3196	1/8	1/2	R56N	\$14.88
3778*	1/8	1/2	R56N	14.88
3250	1/8	1/2	S56N	15.82
3579	1/4	1/2	U56N	18.75
3580	1/3	5/8	Z56N	21.68

Manual Re-set Overload Protector — Reversible

40°C JET PUMP MOTORS

Split-Phase or Capacitor Start — Threaded or Keyed Shaft



Specially designed for jet pump applications. Available with ball bearings both ends, or ball bearing mounting and with sleeve bearing on opposite end. Automatic thermal protection.

Cat. No.	H.P.	Volts	R.P.M.	NEMA Frame	Each
JP454	1/3	115/230	3450	56J	.....
JP450	1/2	115/230	3450	56J	.....
JP455	3/4	115/230	3450	56J	.....
JP540	1	115/230	3450	56J	.....

Capacitor-Start — Threaded Stainless Steel Shaft — Ball-Ball Bearing — Rotation CCW, Shaft End (Not Reversible)

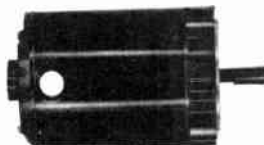
Split-Phase — Threaded Stainless Steel Shaft — Ball-Sleeve Bearing — Rotation CCW, Shaft End (Not Reversible)

JP1311	1/3	115	3450	56J
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Price on Application

40°C NEMA "C" FACE-MOUNTED MOTORS

Split-Phase or Capacitor Start
NEMA 56C Fourpole, 1725 R.P.M. — Reversible



Specially designed for close-coupled apparatus — pumps, machine tools, speed reducers, conveying equipment, etc. Ball bearing, double shielded with bearing on shaft end locked to mounting endshield for high thrust capacities and exact permanent shaft extension. Automatic thermal protection — 5/8" keyed shafts.

Cat. No.	Description	H.P.	Each
1251	Split-Phase — 115V.....	1/4	\$19.63
1252	Split-Phase — 115V.....	1/3	22.27
419	Capacitor-Start — 115V.....	1/4	24.91
420	Capacitor-Start — 115/230V.....	1/3	29.01
421	Capacitor-Start — 115/230V.....	1/2	36.63

TOTALLY ENCLOSED FAN COOLED MOTORS

Special Purpose 55°C Capacitor-Start, TEFC Motors



Dust-proof, dirt-proof totally enclosed fan cooled motors with manual reset overload protection. External fan with heavy die-cast louvered cover. Permanently lubricated double-shielded ball bearings. Attached conduit box. Dual voltage. 5/8" diameter shaft. Meets NEMA performance for general purpose motors.

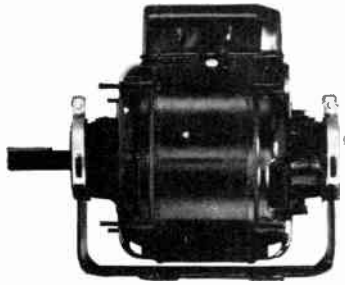
56 Frame — Rigid Mounted — 115/230V — Ball Bearing — 1725 R.P.M.

Manual Reset Overload Protector — Reversible

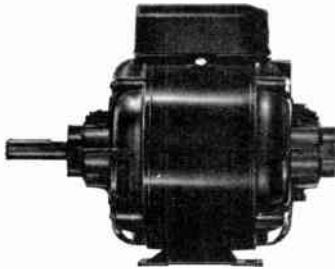
Cat. No.	H.P.	Each	Cat. No.	H.P.	Each
1950	1/3	\$	1952	3/4	\$34.31
1951	1/2	.....	1953	1	39.58

EMERSON ELECTRIC MOTORS

50°C SPECIAL PURPOSE MOTORS — CAPACITOR START



Capacitor Start, Resilient Mount



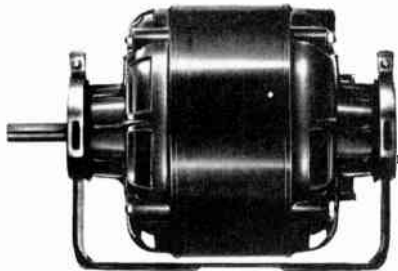
Capacitor Start, Rigid Mount

For hard-to-start applications — compressors, pumps, sanders, jointers, saws.

Cat. No.	H.P.	Speed R.P.M.	Protector	Bearings	Each
Rigid Mounted					
1154	1/3	1725	—	Sleeve	\$21.39
1465	1/2	1725	—	Sleeve	26.37
1638*	1/2	1725	—	Sleeve	—
1663	1/2	1725	Manual	Ball	30.79
1324	3/4	1725	—	Sleeve	—
1665	3/4	1725	Manual	Ball	36.07
1723	1	1725	Automatic	Sleeve	43.66
1855	1	1725	Manual	Ball	46.91
Resilient Mounted					
1144	1/3	1725	—	Sleeve	21.98
1659	1/3	1725	Automatic	Sleeve	23.15
1664	1/3	1725	—	Ball	24.32
1155	1/2	1725	—	Sleeve	26.96
1661	1/2	1725	Automatic	Sleeve	28.13
1728	1/2	1725	Manual	Ball	31.38
1466	3/4	1725	—	Sleeve	32.23
1660	3/4	1725	Automatic	Sleeve	33.40
1729	3/4	1725	Manual	Ball	36.65

50°C SPECIAL PURPOSE MOTORS — SPLIT-PHASE

For easy-to-start applications — small lathes, drills, fans, buffers, mixers.



50°C Split-Phase, Resilient Mount

Cat. No.	H.P.	Shaft Diam.	Protector	Bearing	Each
1725 R.P.M. — 115 Volt — Ventilated — NEMA 56 Frame					
Rigid Mounted					
5S14R	1/4	1/2	—	Sleeve	\$.....
4432	1/4	1/2	Manual	Sleeve	.....
5S13R	1/3	1/2	—	Sleeve	.....
3939	1/3	1/2	—	Ball	18.17
Resilient Mounted					
5S14	1/4	1/2	—	Sleeve	.....
5S14P	1/4	1/2	Automatic	Sleeve	.....
5S13	1/3	1/2	—	Sleeve	.....
5S13P	1/3	1/2	Automatic	Sleeve	.....
3940	1/3	1/2	—	Ball	18.75
2878	1/2	5/8	—	Sleeve	20.69
4043	1/2	5/8	—	Ball	23.03
1725 R.P.M. — 115 Volt — Ventilated — NEMA 48 Frame					
Rigid Mounted					
999	1/4	1/2	—	Sleeve	14.30
1034	1/3	1/2	—	Sleeve	15.83
Resilient Mounted					
843	1/4	1/2	—	Sleeve	14.88
936	1/4	1/2	Automatic	Sleeve	15.76
844	1/3	1/2	—	Sleeve	16.41
937	1/3	1/2	Automatic	Sleeve	17.29

50°C POWER TOOL MOTORS — CAPACITOR START

For saws, sanders, jointers, grinders, compressors, and pumps. Rigid mounted, NEMA 56 Frame (Cat. No. 349 — NEMA 66 Frame).



Capacitor Start, Resilient Mount

Cat. No.	H.P.	Type	Volts	RPM	Bearings	Shaft	Each
3938	1/3	Split-Phase	115	1725	Ball	1/2" —double	\$19.05
2912	1/2	Split-Phase	115	1725	Sleeve	5/8" —double	21.56
1157	1/2	Cap. Start	115/230	1725	Sleeve	1/2" —double	27.25
*303	3/4	Cap. Start	115/230	3450	Ball	5/8" —double	31.61
*304	1	Cap. Start	115/230	3450	Ball	5/8" —double	38.65
305	1	Cap. Start	115/230	3450	Ball	5/8" —single	34.98
†349	1	Cap. Start	115/230	1725	Ball	3/4" —single	60.55

*Equipped with Cord, Plug and Switch
†Manual Reset Protector

CENTURY ELECTRIC COMPANY



FRACTIONAL HP GENERAL PURPOSE RIGID BASE MOTORS

HP	RPM (Syn)	TYPE CS—CAPACITOR START 115/230 VOLT—60 CYCLE				TYPE SP—SPLIT PHASE 230 VOLT—60 CYCLE				TYPE SC—THREE PHASE 208-230/460 VOLT—60 CYCLE			
		DRIPPROOF(1)		ENCLOSED(2)		DRIPPROOF(1)		ENCLOSED(2)		DRIPPROOF(1)		ENCLOSED(2)	
		FRAME	PRICE	FRAME	PRICE	FRAME	PRICE	FRAME	PRICE	FRAME	PRICE	FRAME	PRICE
1/20	1200 900	—	—	—	—	E48	\$27.00	E48	\$37.00	—	—	—	—
		—	—	—	—	E48	48.55	E48	58.55	—	—	—	—
1/12	1200 900	—	—	—	—	E48	31.20	F48	41.20	—	—	—	—
		—	—	—	—	(3)G48	56.00	G48	66.00	—	—	—	—
1/8	1800	E48	\$34.50	F48	\$44.50	E48	25.40	F48	35.40	—	—	—	—
	1200	F48	50.15	F48	60.15	F48	34.50	F48	44.50	E48	\$52.00	E48	\$62.00
	900	J56	83.00	J56	93.00	J56	65.00	J56	75.00	F48	69.50	F48	79.50
1/6	1800	F48	34.50	F48	44.50	F48	25.50	F48	35.50	E48	37.00	E48	47.00
	1200	(3)F48	50.15	F48	60.15	(3)F48	39.00	F48	49.00	F48	52.00	F48	62.00
	900	K56	89.55	K56	99.55	K56	82.05	K56	92.05	J56	87.00	J56	97.00
1/4	3600	B56	31.00	B56	41.00	B56	28.00	B56	38.00	B56	33.00	B56	43.00
	1800	F48	36.50	H48	46.50	F48	27.50	H48	37.50	F48	38.00	F48	48.00
	1200	J56	62.00	J56	72.00	J56	52.00	J56	62.00	F48	59.00	G48	69.00
	900	(3)L56	107.45	L56	117.45	(3)L56	99.45	L56	109.45	J56	104.00	J56	114.00
1/3	3600	H56	31.00	J56	41.00	H56	28.00	J56	38.00	B56	33.00	B56	43.00
	1800	G48	41.00	G48	51.00	G48	32.00	G48	42.00	F48	40.00	G48	50.00
	1200	K56	71.00	K56	81.00	—	—	—	—	G48	63.00	G48	73.00
	900	(3)L56	117.55	L56	127.55	—	—	—	—	K56	114.00	K56	124.00
1/2	3600	J56	35.00	J56	45.00	—	—	—	—	B56	36.00	B56	46.00
	1800	J56	54.00	J56	64.00	—	—	—	—	H56	51.50	H56	61.50
	1200	(3)L56	90.00	L56	100.00	—	—	—	—	J56	70.00	J56	80.00
3/4	3600	J56	42.50	J56	52.50	—	—	—	—	J56	41.00	J56	51.00
	1800	K56	67.50	K56	77.50	—	—	—	—	J56	62.00	J56	72.00
1	3600	K56	54.50	K56	64.50	—	—	—	—	J56	53.00	J56	63.00

JET PUMP MOTORS
DRIPPROOF 40°C - BALL BEARING

HP	RPM (Syn)	VOLTS	SHAFT WITH KEYWAY		THREADED SHAFT	
			FRAME	PRICE	FRAME	PRICE
TYPE CS - CAPACITOR START - 60 CYCLE						
1/3	3600	115	B56C	\$35.00	B56J	\$36.50
			B56C	36.90	B56J	38.40
1/2	3600	115/230	H56C	39.40	H56J	40.90
			J56C	45.00	J56J	46.50
3/4	3600	115/230	K56C	53.00	K56J	54.50
			L56C	73.00	L56J	76.50
1	3600	230	(3)L56C	93.00	(6)L56J	96.50
TYPE SC - THREE PHASE - 60 CYCLE						
1/3	3600	208, 230/460, 575	B56C	\$37.00	B56J	\$39.50
1/2	3600		B56C	40.00	B56J	42.50
3/4	3600		J56C	45.00	J56J	47.50
1	3600		J56C	52.00	J56J	54.50
1 1/2	3600		J56C	71.00	J56J	74.50
			K56C	85.00	K56J	88.50

BELTED FURNACE FAN MOTORS

TYPE SPX - SPLIT PHASE - 60 CYCLE
DRIPPROOF 40°C—SLEEVE BEARING
CUSHION BASE
AUTO. RESET OVERLOAD PROTECTOR

HP	RPM (Syn)	FRAME	SER. FACT.	PRICE	
				115V	230V
1/8	1800	E48	1.40	\$24.10	\$26.10
1/6	1800	E48	1.35	24.60	26.60
1/4	1800	F48	1.35	26.20	28.20
1/3	1800	G48	1.35	29.50	31.50
1/2	1800	H48	1.25	41.50	43.50

- NOTES: (1)—Sleeve Bearing
(2)—Ball Bearing
(3)—Rated 50°C
(4)—Type CPX Motor
(5)—Rated 70°C CL.B
(6)—Type CP Motor

GENERAL ELECTRIC FORM G AND FORM G2 A-C MOTORS

NEMA 48-, 56-, 56H- and 56HZ-Frame

NEW FORM G2, OPEN, SPLIT-PHASE, TYPE XB, 60 CYCLES



Type XB motor with resilient base

Features
Shorter, lighter motor with open (dripproof) construction, continuous duty, quiet all-angle sleeve bearings, attractive blue-gray enamel finish, detachable base.

Where to Use

General Purpose Motors—Specially suited for loads which need moderate starting torque (approx 130% of full-load torque). Starting current is normal and meets all electrical codes for automatically controlled devices. Service

factors of 1.25 to 1.40 permit motors to handle loads above nameplate rating. This is advantageous if maximum load is doubtful. Typical applications are furnace and air-conditioning fans and blowers, office machines, and similar devices.

Special Service Motors—Can be used on loads requiring moderately high starting torque (approx 200% of full-load torque). They have high starting currents and should be used only on applications where starting is infrequent. Since service factor is 1.0, motors should not be used continuously over rated horsepower. Typical applications are summer cooling fans, evaporative coolers, small drill presses, jig saws, grinders, etc.

Hp	Rpm	Volts	NEMA Frame	General-purpose, NEMA Service Factors				Special-service, 1.0 Service Factor			
				With Solid Base		With Resilient Base		With Solid Base		With Resilient Base	
				Model No.	▲Book Price, Each	Model No.	▲Book Price, Each	Model No.	▲Book Price, Each	Model No.	▲Book Price, Each
1/8	1725	115	48	5XBFOOD	\$23.40	5XBFOOC	\$24.40	5XBFOOB	\$23.40	5XBFOOA	\$24.40
1/6	1725	115	48	5XBFOOF	23.50	5XBFOOE	24.50	5XBFOOB	24.40	5XBFOOA	25.40
1/4	1725	115	48	5XBGOOF	25.50	5XBGOOG	26.50	5XBGOOA	27.00	5XBGOOB	28.00
1/3	1725	115	48	5XBHO2A	30.00	5XBHOOH	31.00	5XBHOOC	31.00	5XBHOOD	32.00
1/2	1725	115	56	.....	.....	5XBLOOB	44.00	.....	.....	5XBKOOD	35.30

‡230-volt ratings also available.

OPEN, CAPACITOR-START, TYPE KC, 60 CYCLES



Type KC motor with solid base

Features
Open (dripproof) construction, continuous duty, quiet all-angle sleeve bearings, blue-gray enamel finish, detachable base.

Where to Use

General Purpose Motors—Specially designed for applications requiring exceptionally high starting torque (up to approx 350% full-load torque).

Starting current is normal. Service factors of 1.15 to 1.35 provide load-carrying ability above nameplate rating. These extra-heavy-duty motors are ideal when maximum load is doubtful. Typical applications are pumps, air-conditioning compressors, conveyors, industrial equipment, etc.

Special Service Motors—Recommended for use on hard-to-start loads (starting torque 250% of full-load torque). Starting current is normal. Since service factor is 1.0, motors should not be used continuously over rated horsepower. Typical applications are evaporative coolers, milking machines, attic fans, saws.

Hp	Rpm	Volts	NEMA Frame	General-purpose, NEMA Service Factors				Special-service, 1.0 Service Factor			
				With Solid Base		With Resilient Base		With Solid Base		With Resilient Base	
				Model No.	▲Book Price, Each	Model No.	▲Book Price, Each	Model No.	▲Book Price, Each	Model No.	▲Book Price, Each
1/6	1725	115	48	5KC33GG101	\$32.50	5KC33GG103	\$33.50	.....	.....	.....	.....
1/4	1725	115	48	5KC35KG145	34.50	5KC35KG147	35.50	5KC33GG202	\$32.50	.....	.....
1/3	1725	115/230	56	5KC42JG1	45.00	5KC42JG2	46.00	5KC35KG101*	34.50	.....	.....
1/2	3450	115/230	48	5KC37JG150φ	35.00	5KC37JG151φ	36.00	5KC37JG115†*	35.50	.....	.....
	1725	115/230	56	5KC43MG1	54.00	5KC43MG3	55.00	5KC42JG4	45.00	5KC42JG14	\$46.00
	1725	115	56	.....	.....	.....	.....	5KC43JG118‡	47.50	.....	.....
3/4	3450	115/230	56	5KC43HG220φ	46.50	5KC43HG221φ	47.50	5KC38NG142*†	43.00	.....	.....
	1725	115/230	56	5KC45PG1	67.50	5KC45PG4	68.50	5KC43MG44	54.00	5KC43MG40	55.00
1	3450	115/230	56	5KC47KG119φ	54.50	5KC47KG120φ	55.50	5KC45KG47‡	57.00	.....	.....
	1725	115/230	56	5KC47RG735§	79.00	5KC47RG723§	80.00	5KC45PG804	72.50	5KC45PG805	73.50
1 1/2	3450	115/230	56	5KC47PG749§	76.50	5KC47PG748§	77.50	.....	.....	.....	.....
	1725φ	115/230	56H	5KC49WG527§Δ	100.00	5KC49WG507§	101.00	.....	.....	.....	.....
2	3450	115/230	56	5KC49TG548§	94.50	5KC49TG549§	95.50	.....	.....	.....	.....
	1725φ	115/230	56HZ	5KC49QG525§Δθ	121.00	5KC49QG536θ¶	122.00	.....	.....	.....	.....
3	3450φ	115/230	56HZ	5KC49ZG529§Δ	130.00	5KC49ZG521§	131.00	.....	.....	.....	.....

*Motor rated 115 volts and is NEMA 48 frame.

†Motor has double shaft extension (1 1/2 in. by 1/2 in. each end).

‡Motor has double shaft extension (1 1/8 in. by 3/8 in. each end).

§Motor has moderate starting torque.

¶Motor has ball bearings.

ΔMotor has welded-on-base.

φMotor has two capacitors.

θMotor has outboard fan.

¶Motor has service factor 1.0.

OPEN, THREE-PHASE, TYPE K, 60 CYCLES

Where to Use
For continuous-duty application where power supply is three-phase. Normal torque for starting, high pull-up torque for inertia loads, and high breakdown torque for peak-load conditions.

Features
Continuous duty, all-angle sleeve bearings for moderate thrust or heavy-duty ball bearings with 10-year lubrication for heavy thrust, attractive blue-gray enamel finish.



Type K open motor

Hp	Rpm	Volts	NEMA Frame	Open (Dripproof), NEMA Service Factors			
				Sleeve-bearing		Ball-bearing	
				Model No.	▲Book Price, Each	Model No.	▲Book Price, Each
1/4	1725	230/460	48	5K32EG273	\$38.00	5K32EG271	\$42.00
	1140	230/460	56	5K42FG2542	59.00	5K42FG2548	63.00
1/3	3450	230/460	48	5K36FG509	33.00	5K36FG507	37.00
	1725	230/460	56	5K42FG2545	45.00	5K42FG2550	49.00
1/2	1725	230/460	56	5K42HG2578	51.50	5K42HG2555	55.50
	1140	230/460	56	5K43MG2810	70.00	5K43MG2812	74.00
3/4	3450	230/460	56	5K43GG2878	46.00	5K43GG2785	50.00
	1725	230/460	56	5K43KG2802	60.00	5K43KG2787	64.00
1	3450	230/460	56	5K45JG1028	53.00	5K45JG1025	57.00
1 1/2	3450	230/460	56	.....	.....	5K45KG972	70.00
	1725	230/460	56H	.....	.....	5K45PG973Δ	76.50
	1140	230/460	56HZ	.....	.....	5K49ZG686Δθ	95.00
2	3450	230/460	56	.....	.....	5K48NG648	82.50
	1725	230/460	56HZ	.....	.....	5K49UG702Δ	84.50
3	3450	230/460	56HZ	.....	.....	5K49TG707Δ	98.50
	1725	230/460	56HZ	.....	.....	5K49ZG705Δθ	101.50
5	3450	230/460	56HZ	.....	.....	5K49ZG710Δθ¶	120.00

ΔMotor has welded-on base.

θMotor has outboard fan.

¶Motor has service factor 1.0.

▲ This page includes "Book" prices subject to discount. For the correct discount, consult Graybar.

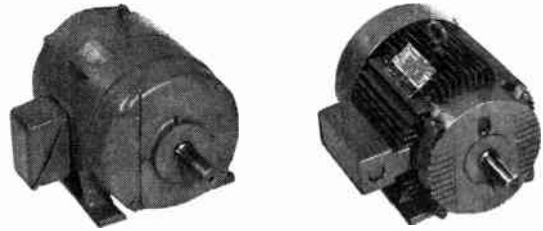
GENERAL ELECTRIC TRI/CLAD[®] 700 LINE POLYPHASE INDUCTION MOTORS

Type K, Normal Starting Torque, NEMA Design B 60 Cycles -230/460 Volts*—Class B Insulation, 40 C Ambient

These advanced design motors are manufactured to new NEMA standards, and they offer lighter weight, smaller size, longer bearing life, and a host of other advantages.

Motors in frames 143T through 184T in dripproof and standard enclosed constructions feature precision diecast aluminum frames with integrally cast feet, and cast-iron end shields. They offer excellent corrosion resistance in most industrial atmospheres.

Motors in frames 213T through 447T feature cast-iron frames and end shields and a new Class B insulation system that offers greater moisture resistance and high dielectric strength for long life.



General Electric offers selected "off-the-shelf" super-standard Tri/Clad 700 Line motors at economy prices. The prices shown apply only to the model numbers given. The only allowable modification is for voltage as explained in the footnote to the table. For any other deviation whatever, and for ratings not included, consult Graybar.

Hp	Rpm	Dripproof				Totally Enclosed Fan-cooled				Hp	Rpm	Dripproof				Totally Enclosed Fan-cooled			
		Frame	Model Number* Fl Assembly†	List Price	Approx Fl Amp 460 V	Frame	Model Number* Fl Assembly†	List Price	Approx Fl Amp 460 V			Frame	Model Number* Fl Assembly†	List Price	Approx Fl Amp 460 V	Frame	Model Number* Fl Assembly†	List Price	Approx Fl Amp 460 V
1/2	1200	143T	5K143AL324	\$59.50	1.6	143T	5K143BL325	\$67.00	1.6	40	3600	286TS	5K286AK105	\$425.00	47.5	324TS	5K324BK105	\$690.00	51.0
	1800	143T	5K143AL234	49.50	1.7	143T	5K143BL259	71.00	1.7		1800	324T	5K324AK205	397.00	52.0	324T	5K324BK205	753.00	56.5
	1200	145T	5K145AL314	61.50	1.9	145T	5K145BL315	81.50	1.9		1200	364T	5K364AK305	567.00	52.0	364T	5K364BK305	953.00	53.5

*Models listed are rated 230/460 volts except ratings 125 hp and larger which are rated 460 volts only. 208 volts, 240/480 volts or the old NEMA Standard 208-220/440 volts for motors 100 hp and lower and 440 volts or 480 volts only for ratings 125 hp and larger will be furnished at the same price.

The following voltages will be offered at a price addition of five percent:

HP Range	Single-voltage Connection
1/2-100	220, 230, 240, 440, 460, 480, 550, 575
125-250	208, 220, 230, 240, 550, 575

†These models are Fl assembly. Other assemblies will be furnished at the same price.

‡NEMA Design A.

♠CCW rotation only, facing fan end.

△CW rotation only, facing fan end.

‡‡Class A insulation.

For Correct Discounts, Contact Graybar

GENERAL ELECTRIC TRI/CLAD[®] 700 LINE SINGLE-PHASE INDUCTION MOTORS

Type KC motors are capacitor-start motors. Starting currents are of NEMA Design L. Type KC motors are suitable for use on fans, blowers, pumps, air compressors, conveyors, masonry saws, and other general-purpose applications.

Type KCJ motors are capacitor-start motors designed with high breakdown torques and high overload capacities to meet requirements of specific equipment such as farm applications, refrigeration compressors, sanding machines, hammer mills, and other applications requiring higher-than-standard torques. Consult Graybar for application recommendations before applying Type KCJ-motors.



Type KC dripproof, Tri/Clad 700 Line



Type KC dripproof, Tri/Clad '55'

TRI/CLAD SUPER-STANDARD DRIPPROOF MOTORS

115/230 Volts, 60 Cycles

Class B Insulation, 40 C Ambient

General Electric offers selected "off-the-shelf" standard a-c dripproof motors at new economy prices. The prices shown in this box apply only to the model numbers given. For any deviation whatever, and for ratings not included, consult Graybar.

Horse-power	Rpm	Without Thermal Protector			Approx. FL Amp 230 V	With Automatic-reset Thermal Protector			Approx. FL Amp 230 V	With Manual-reset Thermal Protector			Approx. FL Amp 230 V
		Frame	Model Number	List Price		Frame	Model Number	List Price		Frame	Model Number	List Price	
TYPE KC—SOLID BASE													
1	1800	143T*	5KC143AL202	\$56.50	7.1	143T*	5KC143AL202T	\$58.50	7.1	143T*	5KC143AL202U	\$61.00	7.1
1½	1800	145T	5KC145AL202	68.00	10.0	145T	5KC145AL202T	71.00	10.1	145T	5KC145AL202U	73.50	10.0
2	1800	182T	5KC182AL202	83.00	11.4	182T	5KC182AL202T	91.50	11.4	182T	5KC182AL202U	92.00	11.4
3	1800	184T	5KC184AL202	112.00	16.2	184T	5KC184AL213T⊕	121.00	16.2	.....	.....	.....	.....
5	1800	213T	5KC213AK202⊕	170.00	20.0	.....	.....	.....	.....	.....	.....	.....	.....
TYPE KCJ—SOLID BASE													
1	1800	145T*	5KCJ145AL201	62.00	7.1	145T*	5KCJ145AL201T	64.00	7.1	.....	.....	.....	.....
1½	1800	182T*	5KCJ182AL201	75.00	9.7	182T*	5KCJ182AL201T	78.00	9.7	.....	.....	.....	.....
2	1800	184T*	5KCJ184AL201	91.00	12.2	184T*	5KCJ184AL201T	99.50	12.2	.....	.....	.....	.....
3	1800	213T*	5KCJ213AK201	123.00	17.0	.....	.....	.....	.....	.....	.....	.....	.....

* Class A insulation.

⊕ 230 volts only.

For Correct Discounts, Contact Graybar

GENERAL ELECTRIC PACKAGED ELECTRIC ADJUSTABLE-SPEED DRIVES

G-P 100*SCR D-C ADJUSTABLE-SPEED DRIVE, 1-15 HP

General Electric's new GP-100 Drive answers the need for a low-cost d-c adjustable-speed system. It is designed for those applications previously restricted, by initial cost considerations, to less versatile, higher maintenance drives. The GP-100 Drive is ideally suited for use with machine tools, conveyors, pumps, compressors, presses, paper converters, testing machines, welding positioners, packaging equipment, food machinery, and process line auxiliaries.

GP-100 Drive includes three basic components: a wall-mounted power unit, a remote wall-mounted operator's control station, and a d-c motor in either drip-proof or totally enclosed construction. For 1-5 hp applications, a completely new Kinamatic[®] motor is used. This motor has been specifically designed to minimize the problems of ripple and form factor normally encountered in operations on single-phase rectified power.

For applications 7½-15 hp, three-phase, a Kinamatic motor and a slightly larger power unit are employed.

both drives offer:

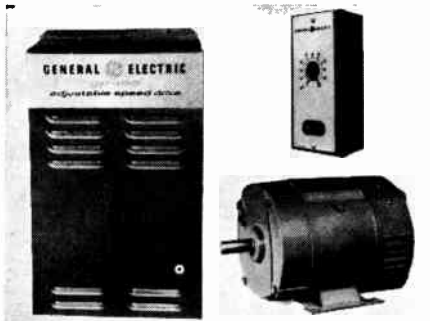
Wide speed range: stepless, controlled operation over a 30:1 speed range; up to 100:1 with a tachometer modification.

Excellent speed regulation: 2% of motor base speed with a 95% load change over the entire speed range. Regulation is improved to 1% with Tachometer modification.

Rated torque is available over entire speed range.

Adjustable linear timed acceleration from 2.5 to 10 seconds (within the torque capabilities of the drive).

Adjustable current limit from 80 to 150% rated current (torque), protects the driven machine as well as the drive.



*Trade-mark of General Electric Company

KINATROL[®] speed variator 1-750 HP

The Kinatrol Speed Variator is an eddy-current coupling adjustable-speed drive that operates directly from a standard industrial a-c power line. The incoming power goes to an induction motor. The constant-speed input of this induction motor drives an eddy-current coupling which electromagnetically provides an adjustable-speed output. Speed of the output shaft is adjusted by controlling the excitation on the coupling field coil.

The Kinatrol line includes both air-cooled and water-cooled couplings, and brakes with scores of modification possibilities.

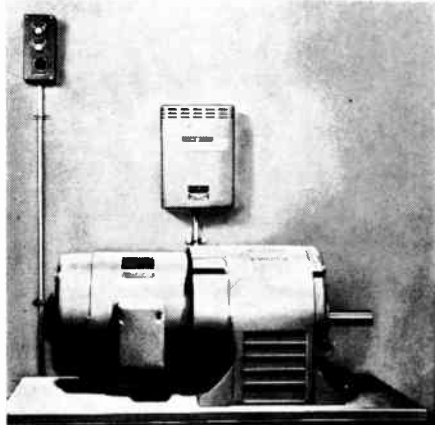
Air-cooled 1-7½ hp drives are especially designed for those applications where size is an important factor. These ratings use the G-E Thinline* a-c motor, and in overall dimensions the drive unit is only slightly larger than a standard a-c motor.

Air-cooled 10-125 hp drives are similar to the 1-5 hp designs, but utilize a standard a-c induction motor.

Water-cooled 15-750 hp drives offer wide speed range in all ratings, and are applied where the required speed range cannot be provided by air-cooled units. Water-cooled units are especially recommended where adverse environmental conditions exist or where minimum noise is a requirement.

Drive unit and control modifications may be combined to suit virtually any application where sturdiness, low maintenance, minimum installed cost, and the versatility of an electric drive are vital.

Call Graybar for Complete Details



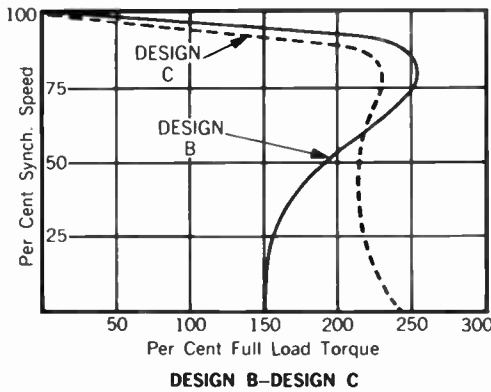
CENTURY ELECTRIC COMPANY

**182-445U FRAME
TYPE SC—THREE PHASE INTEGRAL HP MOTORS**

**60/50 CYCLE • 208-220/440 VOLT • CLASS A INSULATION
40°C RISE DRIPPROOF • 55°C RISE ENCLOSED • BALL BEARING
NEMA DESIGN B NORMAL STARTING TORQUE
GENERAL PURPOSE • CONTINUOUS DUTY**

In addition to the basic line of motors listed, Century Electric Co. manufactures a complete line of motors and generators including apparatus designed for specific commercial and industrial applications:

- Close coupled pump
- Crane and hoist
- Oil burner
- Sump pump
- Vertical
- Multi-speed
- Fan and blower
- Brakemotor
- High torque



The typical speed-torque curves of Design B (Type SC) and Design C (Type SCH) show the higher starting torque of the Type SCH. The Type SC will start loads requiring less than 150% of full load torque at start. The Type SC has considerable higher pull-out torque. At full load the two types are very similar. Specific ratings may vary somewhat from the curves.

**PRICES LISTED APPLY TO
STANDARD MOTORS ONLY**

For modified or special motors refer to your local Graybar office for price and availability.

HP	RPM (Syn)	DRIPPROOF		TOTALLY-ENCLOSED FAN-COOLED			
		FRAME	PRICE	STANDARD		EXPLOSION PROOF	
				FRAME	PRICE	FRAME	PRICE
3/4	1200	182	\$ 59.50	182	\$ 67.00	182	\$ 90.50
	1800	182	49.50	182	71.00	182	94.50
1	1200	184	61.50	184	81.50	184	105.00
	3600	182	52.50	182	73.50	182	97.00
1 1/2	1800	184	52.50	184	78.00	184	102.00
	1200	184	66.00	184	92.50	184	116.00
2	3600	184	63.00	184	86.50	184	110.00
	1800	184	55.50	184	92.00	184	116.00
	1200	213	76.50	213	103.00	213	133.00
	3600	184	72.00	184	98.50	184	122.00
3	1800	213	67.50	213	104.00	213	134.00
	1200	215	92.00	215	126.00	215	156.00
5	3600	213	83.00	213	123.00	213	153.00
	1800	215	80.50	215	138.00	215	168.00
	1200	254U	137.00	254U	194.00	254U	231.00
	3600	215	93.00	215	146.00	215	176.00
7 1/2	1800	254U	111.00	254U	195.00	254U	232.00
	1200	256U	175.00	256U	249.00	256U	286.00
10	3600	254U	126.00	254U	201.00	254U	238.00
	1800	256U	122.00	256U	240.00	256U	277.00
	1200	284U	220.00	284U	308.00	284U	355.00
	3600	256U	174.00	256U	261.00	256U	298.00
15	1800	284U	180.00	284U	318.00	284U	365.00
	1200	324U	253.00	324U	418.00	324U	488.00
20	3600	284U	226.00	286U	358.00	286U	405.00
	1800	286U	218.00	286U	393.00	286U	440.00
	1200	326U	281.00	326U	525.00	326U	595.00
	3600	286U	283.00	324U	435.00	324U	505.00
25	1800	324U	257.00	324U	482.00	324U	552.00
	1200	364U	398.00	364U	627.00	364U	730.00
30	3600	324S	347.00	326S	530.00	326S	600.00
	1800	326U	287.00	326U	571.00	326U	641.00
	1200	365U	469.00	365U	727.00	365U	830.00
	3600	326S	405.00	364US	690.00	364US	793.00
40	1800	364U	397.00	364U	753.00	364U	856.00
	1200	404U	540.00	404U	953.00	—	—
50	3600	364US	581.00	365US	918.00	365US	1021.00
	1800	365US ⁽³⁾	463.00	365US	894.00	365US	997.00
	1200	405U	645.00	405U	1149.00	—	—
	3600	365US	715.00	405US	1107.00	—	—
60	1800	404US ⁽³⁾	540.00	405US	1107.00	—	—
	1200	444U	826.00	444U	1329.00	—	—
75	3600	404US	905.00	444US	1427.00	—	—
	1800	405US ⁽³⁾	620.00	444US	1405.00	—	—
	1200	445U	955.00	445U	1608.00	—	—
	3600	405US	1185.00	445US	1925.00	—	—
100	1800	444US ⁽³⁾	826.00	445US	1765.00	—	—
	3600	444US	1535.00	—	—	—	—
125	1800	445US ⁽³⁾	1027.00	—	—	—	—
	3600	445US	1875.00	—	—	—	—

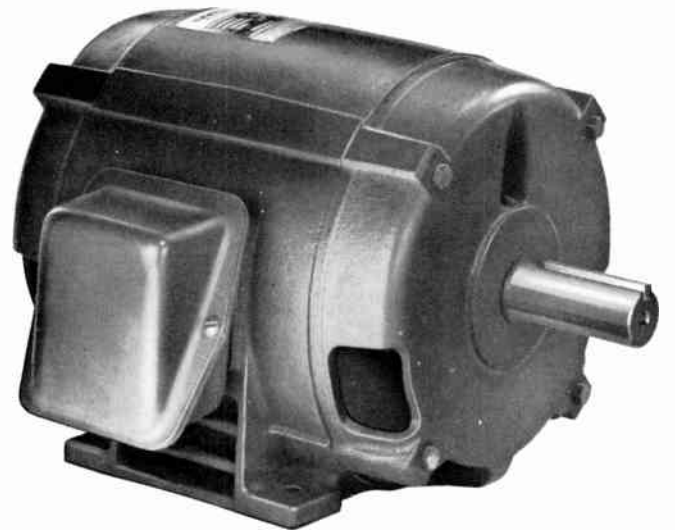
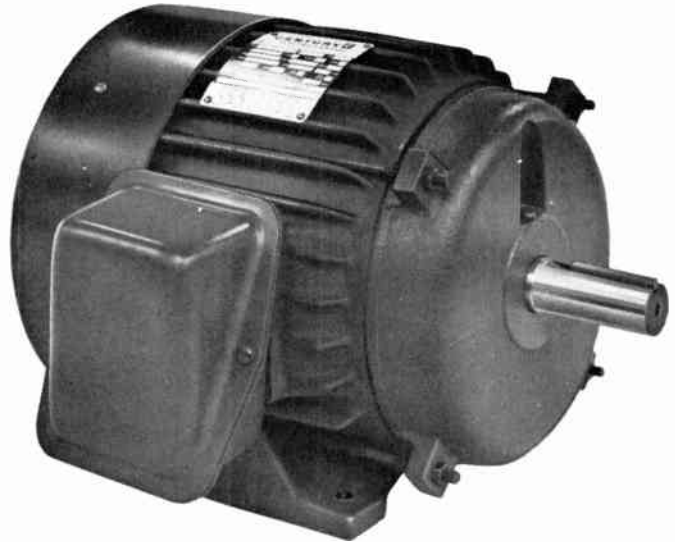
CENTURY ELECTRIC COMPANY

**RATED 143T-445T FRAME
TYPE SC—THREE PHASE INTEGRAL HP MOTORS**

**60 CYCLE • 230/460 VOLT • BALL BEARING
NEMA DESIGN B NORMAL STARTING TORQUE
40°C AMBIENT • CLASS B INSULATION
GENERAL PURPOSE • CONTINUOUS DUTY
SERVICE FACTOR**

Dripproof 1.15
Enclosed 1.00

HP	RPM (Syn)	DRIPPROOF		TOTALLY-ENCLOSED FAN-COOLED	
		FRAME	PRICE	FRAME	PRICE
3/4	1200	143T	\$ 59.50	143T	\$ 67.00
	1800	143T	49.50	143T	71.00
1	1200	145T	61.50	145T	81.50
	3600	143T	52.50	143T	73.50
1 1/2	1800	145T	52.50	145T	78.00
	1200	182T	66.00	182T	92.50
2	3600	145T	63.00	145T	86.50
	1800	145T	55.50	145T	92.00
3	1200	184T	76.50	184T	103.00
	3600	145T	72.00	182T	98.50
5	1800	182T	67.50	182T	104.00
	1200	213T	92.00	213T	126.00
7 1/2	3600	182T	83.00	184T	123.00
	1800	184T	80.50	184T	138.00
10	1200	215T	137.00	215T	194.00
	3600	184T	93.00	213T	146.00
15	1800	213T	111.00	213T	195.00
	1200	254T	175.00	254T	249.00
20	3600	213T	126.00	215T	201.00
	1800	215T	122.00	215T	240.00
25	1200	256T	220.00	256T	308.00
	3600	215T	174.00	254T	261.00
30	1800	254T	180.00	254T	318.00
	1200	284T	253.00	284T	418.00
40	3600	254T	226.00	256T	358.00
	1800	256T	218.00	256T	393.00
50	1200	286T	281.00	286T	525.00
	3600	256T	283.00	284TS	435.00
75	1800	284T	257.00	284T	482.00
	1200	324T	398.00	324T	627.00
100	3600	284TS	347.00	286TS	530.00
	1800	286T	287.00	286T	571.00
125	1200	326T	469.00	326T	727.00
	3600	286TS	405.00	324TS	690.00
150	1800	324T	397.00	324T	753.00
	1200	364T	540.00	364T	953.00
200	3600	324TS	581.00	326TS	918.00
	1800	326T	463.00	326T	894.00
250	1200	365T	645.00	365T	1149.00
	3600	326TS	715.00	364TS	1107.00
300	1800	364TS	540.00	364TS	1107.00
	1200	404T	826.00	404T	1329.00
400	3600	364TS	905.00	365TS	1427.00
	1800	365TS	620.00	365TS	1405.00
500	1200	405T	955.00	405T	1608.00
	3600	365TS	1185.00	405TS	1925.00
600	1800	404TS	826.00	405TS	1765.00
	1200	404TS	1535.00	444TS	2666.00
750	3600	405TS	1027.00	444TS	2281.00
	1800	405TS	1875.00	445TS	2944.00
1000	1200	444TS	1484.00	445TS	2596.00
	3600	444TS	2290.00	—	—
1250	1800	445TS	1910.00	—	—
	3600	445TS	2970.00	—	—



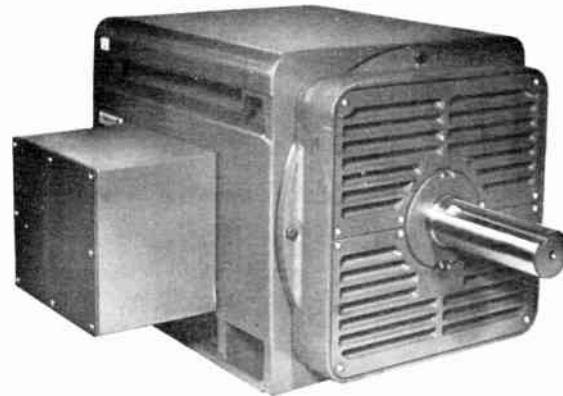
**PRICES LISTED APPLY TO
STANDARD MOTORS ONLY**
For modified or special motors refer to your local
Graybar Office for price and availability.

CENTURY ELECTRIC COMPANY

9500 SERIES FRAME TYPE SC THREE PHASE INTEGRAL HP MOTORS

**60 CYCLE • 440 OR 550 VOLT • BALL BEARING
NEMA DESIGN B NORMAL STARTING TORQUE
40°C AMBIENT • CLASS B INSULATION
GENERAL PURPOSE • CONTINUOUS DUTY**

HP	RPM (Syn)	DRIPPROOF	
		FRAME	PRICE
75	600	9506	\$2263.(2)
100	720	9506	2356.(2)
	600	9508	2850.
125	900	9506	2242.(2)
	720	9506	2844.
	600	9508	3406.
150	900	9506	2707.(2)
	720	9508	3327.
	600	9510	3992.
200	1200	9506	2931.(2)
	900	9508	3644.
	720	9508	4254.
250	1800	(1)9506S	2730.(2)
	1200	9508	3708.
	900	9508	4597.
	720	9510	5115.
300	1800	(1)9506S	3345.(2)
	1200	9508	4428.
	900	9510	5414.
350	1800	(1)9508S	3984.
	1200	9510	5141.
400	1800	(1)9508S	4552.
	1200	(1)9510S	5849.
450	1800	(1)9508S	5121.
500	1800	(1)9510S	5689.



**EPOXY PROTECTED RANDOM WOUND
SERVICE FACTOR 1.15**

- (1)—Recommended for direct connection only.
- (2)—Standard Cl B insulation. Add 5% for Epoxy Protection.

RELATED NEMA STANDARD 143T—256T FRAME SINGLE PHASE INTEGRAL HP MOTORS

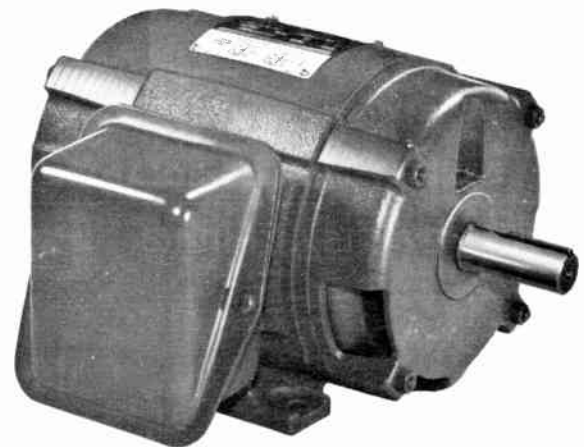
TYPE CS CAPACITOR START-INDUCTION RUN — TYPE CP TWO VALUE CAPACITOR

**60 CYCLE • 115 AND 230 VOLT • BALL BEARING • 40°C AMBIENT • CLASS B INSULATION
GENERAL PURPOSE • CONTINUOUS DUTY**

Dripproof 1.15
Enclosed 1.00

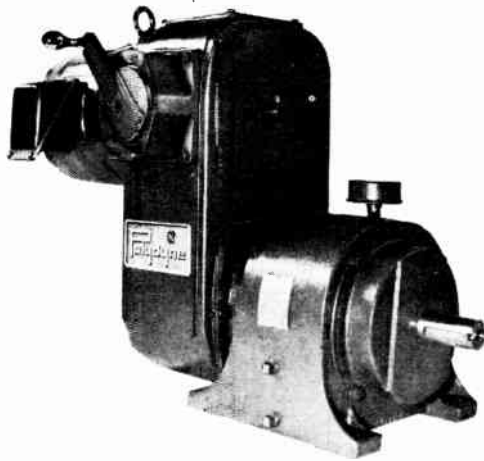
MOTOR TYPE	HP	RPM (Syn)	DRIPPROOF		TOTALLY-ENCLOSED FAN-COOLED	
			FRAME	PRICE	FRAME	PRICE
CS	1	1800	143T	\$ 55.00	143T	\$ 75.50
CS	1½	1800	145T	66.50	145T	90.50
CS	2	1800	182T	81.00	182T	101.50
CS	3	1800	184T	117.00	184T	151.00
CP	5	1800	213T	189.00	213T	228.00
CP	7½	1800	215T	273.00	215T	312.00

ADDITIONAL RATINGS ARE AVAILABLE
REFER TO LOCAL GRAYBAR OFFICE



PRICES LISTED APPLY TO STANDARD MOTORS ONLY
For modified or special motors refer to your local Graybar Office for price and availability.

GENERAL ELECTRIC POLYDYNE® DRIVES—MECHANICAL A-C ADJUSTABLE-SPEED



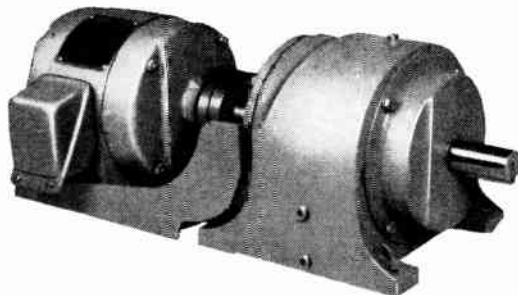
The Polydyne drive is a low-cost, a-c motor driven device which permits adjustment of the output speed by a mechanical means. It employs a belt transmission consisting of two adjustable pulleys (one mounted on a driven shaft and one on a driving shaft), which are connected by a rubber belt loop. Speed adjustment is accomplished by mechanically sliding the pulley halves on a splined shaft. This permits the belt to "ride" closer to, or farther from, the center of the pulley, and changes the effective diameter of the two pulleys thereby producing a speed reduction or increase.

The Polydyne drive can be applied wherever an adjustable-speed need exists. In general, those applications include conveyors of all types, continuous-process manufacturing, metal-work equipment and mixing, pumping and proportioning operations. A partial list of specific applications include:

Packaging machines, Grinders, Punch presses, Extruding equipment, Belt conveyor, Chemical mixers, Printing presses, Buffing machines, Tumbling barrels, and Wire-forming machines.

Hp Range	Range of Output Speeds, Rpm (Based on 1750-Rpm Motor Input)	Controls	Description
Parallel Shaft			
¼ thru 50 (A-c)	4200 to 5 (approximate)	Local or remote. Types Available: Mechanical Electrical Pneumatic	A-c motor is flange mounted to belt transmission housing, consisting of two adjustable pulleys connected by a belt loop. Unit can be geared or nongeared depending on required output speed.
Right Angle Shaft			
¼ thru 2 (A-c)	500 to 0.9 (approximate)	Local or remote. Types Available: Mechanical Electrical Pneumatic	A-c motor is flange mounted to belt transmission housing, consisting of two adjustable pulleys connected by a belt loop, unit is geared with the output shaft at a right angle to the motor shaft.

GENERAL ELECTRIC GEAR-MOTORS



A-c and d-c gear-motors are available in a wide range of speeds, horsepowers, motor characteristics, and designs to meet compact, low-speed, and high-torque drive requirements for such applications as:

Powered conveyors (all types), mixers, hoists, crushers, agitators, tumbling barrels, machine tools, pumps, presses, feeders, elevators, and disposal equipment.

Basically, three common characteristics apply to the line:

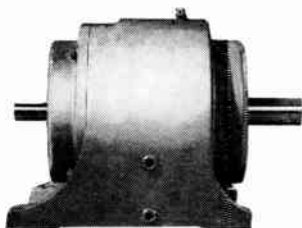
- Compactness—the drives, consisting of motor and gear train are offered as one easy-to-install package.
- Low-speed operation—gear motors efficiently reduce standard motor input speeds to meet lower speed requirement.
- High torque delivery—since gear motors provide positive transmission of lower speeds through a gear train, they function essentially as torque multipliers.

The integral type and all-motor designs provide maximum power efficiency at the output shaft, while the right-angle unit saves mounting space. In addition, the all-motor unit permits fast motor replacement.

Hp Range	Range of Output Speed, Rpm (Based on 1750-Rpm Motor)	Gear-motor Type	Description
⅓ to 75	780 to 13.5	Integral Type	Motor is flange mounted to gear to form integral type unit. A-c or d-c.
1 to 75	350 to 13.5	All-motor Type	Standard NEMA footed motor mounts on supporting base direct coupled to gear reducer. A-c or d-c.
⅓ to 5	197 to 6	Right-angle Shaft	Motor is flange mounted to gear. Output shaft is at right angles to motor input shaft. A-c or d-c.

GENERAL ELECTRIC SPEED REDUCERS

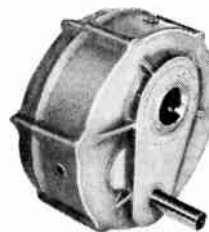
FOOTED SPEED REDUCERS



Footed speed reducers, due to their prime mover and connection flexibility, are applicable on a wide range of applications from agitators to windlasses. It is an extension of the parallel-shaft gear-motor line and is available from 1 to 200 rated horsepower, from 520 thru 13.5 rpm (based on 1750-rpm input). The unit is designed particularly for applications where mounting space is at a premium. It can be belt, chain, or direct-connected to electric motor, gasoline, or diesel engine prime movers, or to the driven machine. Output speeds may be varied simply by changing belt or chain ratios.

Price on Application

SHAFT-MOUNTED SPEED REDUCERS



The shaft-mounted speed reducer is designed for applications where it is advantageous to mount the geared speed-reduction unit directly on the driven shaft. Typical applications include conveyors, bucket elevators, rotary screens, apron feeders, car unloaders, gravel classifiers and agitators.

It is available from ¼ to 4 rated horsepower, from 420 thru 10 rpm (based on 1750-rpm input).

GENERAL ELECTRIC MANUAL MOTOR STARTERS

CR101—Single-phase Fhp, 1 Hp Max, 115 or 230 Volts, 60 to 25 Cycles



No. of Poles	Open		General-purpose, NEMA Type 1				Water and Dust-tight, NEMA Type 4	Explosion-proof NEMA Types 7 and 9, (Class I, groups C and D, Class II, groups E, F and G)	List Price, Each*
	For Flush or Outlet Box Mtg.	List Price, Each*	Surface-mtg.	List Price, Each*	Surface-mtg. W/Ind. Light†	List Price, Each*			

TOGGLE-OPERATED

1	CR101 Y	\$6.50	CR101 Y1	\$7.50	CR101 Y11	\$13.00	CR101 Y400H	CR101 Y700H	\$24.00
2	CR101 H	7.50	CR101 H1	8.50	CR101 H11	14.00	CR101 H400H	CR101 H700H	25.00

KEY-OPERATED

1	CR101 Y000K	\$8.50	CR101 Y100K	\$9.50	CR101 Y110K	\$15.00	CR101 Y400J	CR101 Y700J	\$26.00
1	CR101 H000K	9.50	CR101 H100K	10.50	CR101 H110K	16.00	CR101 H400J	CR101 H700J	27.00

† Open starters include an unmounted nameplate.

**LEVER-OPERATED—
3/4" hub on one end**

**LEVER-OPERATED—
3/4" hub on both ends**

- Plug-in-heater
- Small size
- New terminal design
- Wrap-around cover

TWO-SPEED FORMS

No of Poles	Indicating Lights	General-purpose, NEMA Type 1		General-purpose, Flush-mounting			
		Surface-mounting	List Price, Each*	Gray Flush-plate	List Price, Each*	Stainless-steel Flush-plate	List Price, Each*
1	None Two‡	CR101 Y600B	\$25.00	CR101 Y600A	\$24.00	CR101 Y608A	\$25.00
		CR101 Y610B	36.00	CR101 Y610A	35.00	CR101 Y618A	36.00
2	None Two‡	CR101 H600B	27.00	CR101 H600A	26.00	CR101 H608A	27.00
		CR101 H610B	38.00	CR101 H610A	37.00	CR101 H618A	38.00

*Heater(s) may be omitted or additional ones ordered at \$1.00 ea. One heater required per starter (two for 2-speed).
‡Includes a 115/230 volt neon lamp(s).

ENCLOSURE COMPONENTS

List Price, Each

CR101 X1	Flush plate with 115/230 volt ind. light and screws	\$6.00
CR101 X2	Standard-flush plate with screws	.50
CR101 X3	Locking attachment (lock not included)	1.00
CR101 X4	Cover (front) with 115/230 volt neon ind. light and screws	6.00
CR101 X5	Standard cover (front) with screws	.50
CR101 X6	Enclosure (back) with screws	.50
CR101 X7	Stainless-steel flush plate with 115/230 volt ind. light and screws	6.50
CR101 X8	Stainless-steel flush plate with screws	1.00

HEATER UNITS

Max Motor Full-load Amp	Heater Cat. No.	Max Motor Full-load Amp	Heater Cat. No.	Max Motor Full-load Amp	Heater Cat. No.
.48	CR123 H0.55A	1.78	CR123 H2.05A	5.90	CR123 H6.80A
.53	CR123 H0.61A	1.95	CR123 H2.24A	6.41	CR123 H7.39A
.58	CR123 H0.67A	2.13	CR123 H2.45A	6.98	CR123 H8.02A
.65	CR123 H0.74A	2.32	CR123 H2.67A	7.60	CR123 H8.73A
.71	CR123 H0.82A	2.53	CR123 H2.91A	8.25	CR123 H9.50A
.78	CR123 H0.90A	2.76	CR123 H3.17A	8.95	CR123 H10.3B
.86	CR123 H0.99A	3.01	CR123 H3.46A	9.75	CR123 H11.2B
.95	CR123 H1.08A	3.27	CR123 H3.77A	10.6	CR123 H12.2B
1.04	CR123 H1.20A	3.56	CR123 H4.10A	11.4	CR123 H13.2B
1.14	CR123 H1.32A	3.88	CR123 H4.46A	12.5	CR123 H14.4B
1.25	CR123 H1.44A	4.22	CR123 H4.86A	13.6	CR123 H15.7B
1.37	CR123 H1.58A	4.60	CR123 H5.29A	14.8	CR123 H17.1B
1.49	CR123 H1.72A	5.00	CR123 H5.75A	16.0	CR123 H18.6B
1.63	CR123 H1.88A	5.43	CR123 H6.25A		

ORDERING DIRECTIONS

1. Order starter by complete CR nomenclature and specify overload heater by complete CR nomenclature.

GENERAL ELECTRIC MANUAL REVERSING DRUM SWITCHES

CR102—2 Hp Max, 600 Volts Max



CR102 Type A



CR102 Type B

FEATURES

- Compact size.
- Shock-resistant construction.
- Wrap-around cover with 180-degree accessibility for easy installation.
- Large, easy-to-use, screw-type terminals.
- Separate conduit openings for incoming and outgoing leads.
- Easy-to-operate handle; Type B forms may be mounted in any of four directions.
- Four mounting holes in back of enclosure.
- Conversion of Type A forms from maintained contact to momentary contact in the field, without additional parts or tools.
- Cover can be removed by loosening one captive screw.

MAXIMUM HORSEPOWER RATINGS

Form	Single-phase		Polyphase		DC
	115V	230V	110, 220V	600V	
CR102 A1, A13	1 1/2	2	2	2	1/4
CR102 A2, A3, A16, A23	1 1/2	2	1	..	..
CR102 B(a11)	1	1 1/2	1 1/2	..	..

ORDERING DIRECTIONS

Order by complete CR nomenclature.

CR102 A FORMS

General Purpose—NEMA Type 1 Surface Mounted		
Both Directions Momentary, or Both Directions Maintained*	One Direction Momentary, other Direction Maintained*	List Price, Each
THREE-PHASE†		
CR102 A1	CR102 A13	\$10.50
SINGLE-PHASE‡		
CR102 A2	CR102 A23	10.50
SINGLE-PHASE—Instantly Reversible Motor		
CR102 A3		11.00
SINGLE-PHASE—Dual Voltage Motor Reconnection		
CR102 A16		11.20

* Momentary and maintained contact arrangement may be reversed in the field without additional parts.

† May be used with single-phase motors (other than repulsion-induction type) provided one wire is connected directly to power source.

‡ May be used on three-phase motors provided one wire is connected directly to power source.

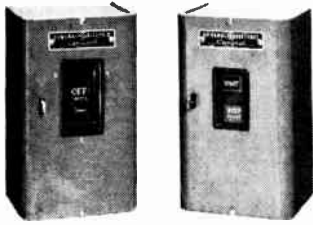
CR102 B FORMS

Type of Motor to be Controlled	General Purpose—NEMA Type 1 Surface Mounted§		
	Maintained Contact Forms	Momentary Contact Forms	List Price, Each
SINGLE-PHASE—Capacitor Start			
Split Phase	CR102 B311A CR102 B414A¶	CR102 B311A1 CR102 B414A1¶	\$9.50 15.50
SINGLE-PHASE—Inherently Protected			
5 Lead	CR102 B311A CR102 B412A¶	CR102 B311A1 CR102 B412A1¶	9.50 16.50
THREE-PHASE—3 Wire			
.....	CR102 B312A	CR102 B312A1	8.50
SINGLE-PHASE—Repulsion Induction			
3 or 4 Lead	CR102 B312A CR102 B314A¶	CR102 B312A1 CR102 B314A1¶	8.50 9.50
SINGLE-PHASE—Instantly Reversible			
5 Lead	CR102 B313A CR102 B413A¶	CR102 B313A1 CR102 B413A1¶	9.50 16.50
SINGLE-PHASE—Instantly Rev., Inherently Protected			
6 Lead	CR102 B415A CR102 B411A¶	CR102 B415A1 CR102 B411A1¶	15.50 16.50

§ Panel-mounted forms, or cavity mounted with flush plate forms, are also available. ¶ Use with limit switches.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC MANUAL MOTOR STARTERS
CR1062—Single and Polyphase, 7½ Hp Max, 600 Volts Max, 60 to 25 Cycles



FEATURES

- Front-connected, clamp-type terminals for easy wiring.
- Sturdy, vibration-resistant, anti-snap-action operating mechanism.
- Operating mechanism trips free on overload—can't be held closed.
- Barriers isolate contacts—quickly snuff arcs.
- Plenty of wiring room in enclosure.

ORDERING DIRECTIONS

1. Order motor-starting switch by nomenclature designation, CR and form no.; Example: CR1062S1A.
2. For 3-phase switches, order two overload-relay heaters by Cat. No.
3. For single-phase switches, order one overload-relay heater by Cat. No.

HOW TO SELECT HEATERS

From the table below select the device and type of enclosure desired. This will tell you what column to use in the table to the right to select the heaters needed.

Pole Arrangement and No. of Overload Relays	NEMA Type Enclosure		
	Open, Types 3, 4, 5, 7, 9	Type 1	Type 12
Sizes M-0 and M-1			
2-pole (1 OL relay)	Col A	Col A	Col A
3-, 4-pole and 3-pole w/aux contact (4 OL relays)	Col C	Col B	Col B
3-pole (3 OL relays)	Col D	Col D	Col D
3-3-pole, 5-3-pole (4 OL relays)	Col C	Col B	—
3-3-pole, 5-3-pole (6 OL relays)	Col D	Col D	—
Size M-1P			
2-pole (1 OL relay)	Col E	Col E	—

ACROSS-THE-LINE FORMS

NEMA Size	Max Horsepower					No. of Poles	Open Starters			General-purpose, NEMA Type 1				
	Single-phase		Polyphase				Toggle Operated	Push-button Operated	List Price*	Toggle Operated	Push-button Operated	List Price*		
	115 v	230 v	110 v	220 v	440-600 v									
M-0	1	1½	2	3	4	2	CR1062 R13A R9A R11A	CR1062 R12A R8A R10A	\$18.00 23.00 33.00	CR1062 R5A R1A R3A	CR1062 R6A R2A R4A	\$20.00 25.00 35.00		
M-1	1½	3	5	7½	10	2	CR1062 S13A S9A S11A	CR1062 S12A S8A S10A	23.00 28.00 40.00	CR1062 S5A S1A S3A	CR1062 S6A S2A S4A	25.00 30.00 42.00		
M-1P	3	5	7½	10	15	2	CR1062 S22A	CR1062 S28A	34.00	CR1062 S23A	CR1062 S27A	36.00		
							Water and Dust-tight NEMA Types 3, 4 and 5		Explosion-proof, Class I, Groups C and D, and Class II, Groups E, F, and G, NEMA Types 7 and 9		Industrial-use NEMA Type 12			
							Nomenclature		List Price*		Nomenclature		List Price*	
M-0	1	1½	2	3	4	2	CR1062 R16A R14A R15A	\$52.00 57.00 72.00	CR1062 R19A R17A R18A	\$66.00 71.00 86.00	CR1062 R7G R7F R7H	\$27.00 32.00 42.00		
M-1	1½	3	5	7½	10	2	CR1062 S16A S14A S15A	64.00 69.00 90.00	CR1062 S19A S17A S18A	78.00 83.00 104.00	CR1062 S7G S7F S7H	32.00 37.00 49.00		

REVERSING CONTROLLER FORMS

NEMA Size	Max Horsepower			Open Controller			General-purpose, NEMA Type 1		
	110 v	220 v	440-600 v	Toggle Operated	Push-button Operated	List Price*	Toggle Operated	Push-button Operated	List Price*
M-0	1½	2	3	CR1062 R51A	CR1062 R50A	\$69.00	CR1062 R53A	CR1062 R52A	\$75.00
M-1	3	5	7½	CR1062 S51A	CR1062 S50A	84.00	CR1062 S53A	CR1062 S52A	90.00

TWO-SPEED CONTROLLER FORMS—3-3 POLES

NEMA Size	Max Horsepower						Open Controller			General-purpose, NEMA Type 1		
	Constant Torque or Variable Torque			Constant Horsepower			Toggle Operated	Push-button Operated	List Price*	Toggle Operated	Push-button Operated	List Price*
	110 v	220 v	440-600 v	110 v	220 v	440-600 v						

3-3 Pole Forms (For two-speed, two-winding, separate-winding motors)

M-0	1½	2	3	1	1½	2	CR1062 R55A	CR1062 R54A	\$69.00	CR1062 R57A	CR1062 R56A	\$75.00
M-1	3	5	7½	1½	3	5	CR1062 S55A	CR1062 S54A	84.00	CR1062 S57A	CR1062 S56A	90.00

5-3 Pole Forms (For two-speed, single-winding, consequent-pole motors)

M-0	1½	2	3	1	1½	2	CR1062 R59A	CR1062 R58A	\$99.00	CR1062 R61A	CR1062 R60A	\$105.00
M-1	3	5	7½	1½	3	5	CR1062 S59A	CR1062 S58A	120.00	CR1062 S61A	CR1062 S60A	126.00

* Heaters may be omitted or additional ones ordered at \$1.50 each list. List prices include heaters.

Column A		Column B		Column C		Column D		Column E	
Max Full-load Motor Amp	Heater Cat. No. For General Use	Max Full-load Motor Amp	Heater Cat. No. For General Use	Max Full-load Motor Amp	Heater Cat. No. For General Use	Max Full-load Motor Amp	Heater Cat. No. For General Use	Max Full-load Motor Amp	Heater Cat. No. For General Use
1.06	CR123 C1.09A	.96	CR123 C1.09A	1.03	CR123 C1.09A	.89	CR123 C1.09A	8.56	CR123 C7.78A
1.18	CR123 C1.18A	1.07	CR123 C1.18A	1.14	CR123 C1.18A	.98	CR123 C1.18A	9.43	CR123 C8.67A
1.33	CR123 C1.31A	1.21	CR123 C1.31A	1.30	CR123 C1.31A	1.12	CR123 C1.31A	10.3	CR123 C9.55A
1.47	CR123 C1.48A	1.34	CR123 C1.48A	1.42	CR123 C1.48A	1.22	CR123 C1.48A	11.0	CR123 C10.4B
1.66	CR123 C1.63A	1.51	CR123 C1.63A	1.61	CR123 C1.63A	1.38	CR123 C1.63A	12.1	CR123 C11.3B
1.78	CR123 C1.84A	1.62	CR123 C1.84A	1.72	CR123 C1.84A	1.48	CR123 C1.84A	13.2	CR123 C12.5B
2.00	CR123 C1.96A	1.82	CR123 C1.96A	1.93	CR123 C1.96A	1.66	CR123 C1.96A	15.0	CR123 C13.7B
2.18	CR123 C2.20A	1.92	CR123 C2.20A	2.10	CR123 C2.20A	1.80	CR123 C2.20A	16.2	CR123 C15.1B
2.45	CR123 C2.39A	2.23	CR123 C2.39A	2.36	CR123 C2.39A	2.03	CR123 C2.39A	17.7	CR123 C16.3B
2.76	CR123 C2.68A	2.51	CR123 C2.68A	2.65	CR123 C2.68A	2.28	CR123 C2.68A	19.7	CR123 C18.0B
3.00	CR123 C3.01A	2.73	CR123 C3.01A	2.87	CR123 C3.01A	2.47	CR123 C3.01A	21.2	CR123 C19.8B
3.27	CR123 C3.26A	2.97	CR123 C3.26A	3.15	CR123 C3.26A	2.71	CR123 C3.26A	22.2	CR123 C21.4B
3.49	CR123 C3.56A	3.17	CR123 C3.56A	3.34	CR123 C3.56A	2.87	CR123 C3.56A	24.9	CR123 C22.8B
3.86	CR123 C3.79A	3.51	CR123 C3.79A	3.70	CR123 C3.79A	3.18	CR123 C3.79A	26.4	CR123 C25.0B
4.30	CR123 C4.19A	3.91	CR123 C4.19A	4.12	CR123 C4.19A	3.54	CR123 C4.19A	30.0	CR123 C27.3B
4.88	CR123 C4.66A	4.44	CR123 C4.66A	4.68	CR123 C4.66A	3.89	CR123 C4.66A	32.7	CR123 C30.3B
5.49	CR123 C5.26A	4.99	CR123 C5.26A	5.25	CR123 C5.26A	4.51	CR123 C5.26A	36.0	CR123 C33.0B
5.85	CR123 C5.92A	5.31	CR123 C5.92A	5.70	CR123 C5.92A	4.90	CR123 C5.92A		
6.45	CR123 C6.30A	5.87	CR123 C6.30A	6.18	CR123 C6.30A	5.30	CR123 C6.30A		
7.22	CR123 C6.95A	6.56	CR123 C6.95A	6.90	CR123 C6.95A	5.94	CR123 C6.95A		
8.05	CR123 C7.78A	7.31	CR123 C7.78A	7.79	CR123 C7.78A	6.70	CR123 C7.78A		
8.88	CR123 C8.67A	8.07	CR123 C8.67A	8.56	CR123 C8.67A	7.36	CR123 C8.67A		
9.66	CR123 C9.55A	8.79	CR123 C9.55A	9.29	CR123 C9.55A	7.98	CR123 C9.55A		
10.5	CR123 C10.4B	9.51	CR123 C10.4B	9.99	CR123 C10.4B	8.59	CR123 C10.4B		
11.6	CR123 C11.3B	10.5	CR123 C11.3B	11.0	CR123 C11.3B	9.46	CR123 C11.3B		
12.7	CR123 C12.5B	11.5	CR123 C12.5B	12.0	CR123 C12.5B	10.3	CR123 C12.5B		
13.2	CR123 C13.7B	12.0	CR123 C13.7B	13.6	CR123 C13.7B	11.7	CR123 C13.7B		
15.1	CR123 C15.1B	13.7	CR123 C15.1B	14.7	CR123 C15.1B	12.6	CR123 C15.1B		
16.6	CR123 C16.3B	15.1	CR123 C16.3B	16.1	CR123 C16.3B	13.8	CR123 C16.3B		
17.6	CR123 C18.0B	16.0	CR123 C18.0B	18.0	CR123 C18.0B	15.4	CR123 C18.0B		
19.8	CR123 C19.8B	18.0	CR123 C19.8B	19.3	CR123 C19.8B	16.6	CR123 C19.8B		
21.1	CR123 C21.4B	19.2	CR123 C21.4B	20.2	CR123 C21.4B	17.4	CR123 C21.4B		
23.1	CR123 C22.8B	21.0	CR123 C22.8B	22.5	CR123 C22.8B	19.4	CR123 C22.8B		
22.5	CR123 C25.0B	22.5	CR123 C25.0B	22.5	CR123 C25.0B	20.6	CR123 C25.0B		

‡ Size 1 only.

For continuous rated 40 C motors. For continuous rated 50 and 55 C motors, multiply full-load current of motor by 0.90 and use this value to select heater.

To protect the starter and motor during

short circuit, provide motor-branch-circuit protection in accordance with the National Electrical Code. In no case should the fuse rating exceed three-and-one-half times the motor full-load current.

GENERAL ELECTRIC MAGNETIC MOTOR STARTERS

CR106 Across-the-line Non-reversing—NEMA Sizes 00-5



NEMA Size	Max. Horsepower†			Open Starter	List Price, Each	General-purpose NEMA Type 1 Case						
	110 V	208/220 V	440-600 V			Cat. No.	Without Push Button in Cover		START-STOP Push Button in Cover		HAND-OFF-AUTO Selector Switch in Cover	
							Cat. No.	List Price, Each	Cat. No.	List Price, Each	Cat. No.	List Price, Each

SINGLE-PHASE, 2-POLE (Size 1½ has two poles connected in parallel in each line) (Price includes 1 overload heater)

00	1	1	...	Size 00, Use 3-pole forms listed below.							
0	1	2	...	CR106 J0*	\$32	CR106 J1*	\$34	CR106 J1*ABA	\$42	CR106 J1*ACA	\$42
1	2	3	...	CR106 K0*	37	CR106 K1*	39	CR106 K1*ABA	47	CR106 K1*ACA	47
1½	3	5	...	CR106 K0*BMA	48	CR106 K1*BKA	50	CR106 K1*BLA	58	CR106 K1*BMA	58
2	3	7½	...	CR106 L0*	66	CR106 L1*	76	CR106 L1*ABA	84	CR106 L1*ACA	84
3	7½	15	...	Size 3, Use 3-pole forms listed below.							

FEATURES

- Straight-through wiring—line leads connected at top, load leads at bottom, to speed installation.
- Snap-slide disassembly—allows for contact inspection in 10 seconds, coil change in 30 seconds—without tools!
- Vertically-slanted contacts—resist contact contamination and bounce, increase starter life.

ORDERING DIRECTIONS

1. Specify starter by complete CR nomenclature. Specify coil voltage and cycle.

2- AND 3-PHASE 3-POLE (Price includes 2 overload heaters)

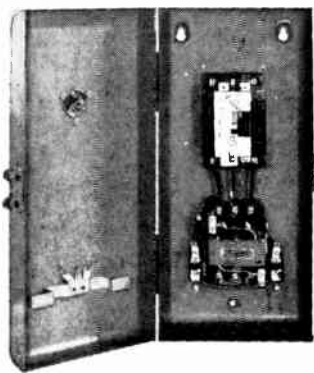
00	¾	1½	2	CR106 A0*	\$30	CR106 A1*	\$32	CR106 A1*ABA	\$40	CR106 A1*ACA	\$40
0	2	3	5	CR106 B0*	37	CR106 B1*	39	CR106 B1*ABA	47	CR106 B1*ACA	47
1	3	7½	10	CR106 C0*	42	CR106 C1*	44	CR106 C1*ABA	52	CR106 C1*ACA	52
2	7½	15	25	CR106 D0*	74	CR106 D1*	84	CR106 D1*ABA	92	CR106 D1*ACA	92
3	15	30	50	CR106 E0*	118	CR106 E1*	138	CR106 E1*ABA	146	CR106 E1*ACA	146
4	25	50	100	CR106 F0*	266	CR106 F1*	308	CR106 F1*ABA	316	CR106 F1*ACA	316
5	...	100	200	CR106 G0*	607	CR106 G1*	684	CR106 G1*ABA	692	CR106 G1*ACA	692

* Specify coil voltage and cycle.

† For 380 volts, use 440-volt rating, but over 50 hp reduce hp rating to 85% of 440-volt value.

GENERAL ELECTRIC COMBINATION MAGNETIC STARTERS

CR107, CR108 Non-reversing—NEMA Sizes 0-5



FEATURES

- Reduced installation time—starter and disconnect or circuit breaker are installed in one, compact enclosure.
- Full front accessibility—hinged door opens full 180° for greater accessibility.
- Visual indication of operation—position of switch handle indicates whether device is "ON" or "OFF".

ORDERING DIRECTIONS

1. Specify starter by complete CR nomenclature. Specify coil voltage and cycles.

NEMA Size	Max Horsepower†			Fuse Clip Size or Circuit Breaker Trip Amp	General-purpose, NEMA Type 1 Case	List Price, Each ‡
	208/220 V	440 V	550/600 V			
WITH DISCONNECT SWITCH						
0	3	5	5	NON-F	CR108 B1*AAA	\$94
	3	...	...		B1*BAA	97
	...	5	5		B1*DAA	99
1	7½	10	10	NON-F	CR108 C1*AAA	99
	15	...	...		C1*BAA	102
	7½	...	...		C1*CAA	104
	...	Δ7½	Δ7½		C1*DAA	104
	...	10	10		C1*EAA	106
2	15	25	25	NON-F	CR108 D1*AAA	155
	Δ15	...	...		D1*BAA	159
	15	...	...		D1*CAA	171
	...	15	20		D1*DAA	183
	...	15	20		D1*EAA	162
	...	25	25		D1*FAA	173

NEMA Size	Max Horsepower†			Fuse Clip Size or Circuit Breaker Trip Amp	General-purpose, NEMA Type 1 Case	List Price, Each ‡
	280/220 V	440 V	550/600 V			
WITH DISCONNECT SWITCH (cont'd)						
3	30	50	50	NON-F	CR108 E1*AAA	\$256
	Δ30	...	...		E1*CAA	288
	30	...	...		E1*DAA	334
	...	30	100		E1*EAA	271
	...	50	50		E1*FAA	292
4	50	100	100	NON-F	CR108 F1*AAA	491
	50	...	...		F1*CAA	557
	...	...	60		F1*DAA	512
	...	100	100		F1*EAA	565
5	100	200	200	NON-F	CR108 G1*AAA	1060
	100	...	...		G1*CAA	1195
	...	...	125		G1*FAA	1096
	...	200	200		G1*GAA	1237
WITH CIRCUIT BREAKER						
0	2	...	...	15	CR107 B1*AAA	\$101
	3	...	...	20	B1*BAA	101
	...	3	5	15	B1*FAA	130
	...	5	...	20	B1*GAA	130
	5	...	...	40	CR107 C1*DAA	106
	7½	...	...	50	C1*EAA	106
	...	...	7½	20	C1*GAA	135
	...	7½	10	30	C1*HAA	135
	...	10	...	40	C1*JAA	135
	Δ15	...	...	50	CR107 D1*EAA	161
	15	...	...	100	D1*GAA	206
	...	...	15	40	D1*LAA	190
	...	Δ25	25	50	D1*NAA	190
	...	25	...	70	D1*NAA	206
3	Δ30	...	...	100	CR107 E1*CAA	275
	30	...	...	125	E1*BDA	380
	...	...	30	70	E1*EAA	275
	...	50	50	100	E1*FAA	275
4	...	60	75	125	CR107 F1*BAA	600
	40	75	100	150	F1*CAA	600
	50	100	...	200	F1*EAA	600
5	60	Δ125	150	250	CR107 G1*AAA	1349
	75	150	200	300	G1*BAA	1349
	100	200	...	400	G1*CAA	1349

† Horsepower rating when time delay fuses are used.
 Δ For starting duty only. Long-time acceleration requires larger fuse or higher breaker trip rating.

‡ Includes 2 overload heaters and holding interlock, but not push button or fuses; heaters may be omitted or additional ones ordered at \$1.50 each list.

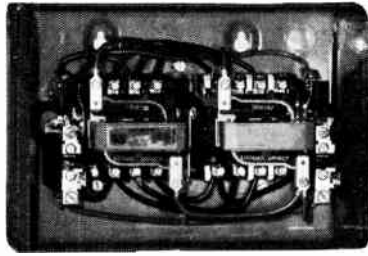
* Specify coil voltage and cycles.

† Based on NEC rules for single-element NEC fuses and for thermal magnetic trip circuit breaker except as indicated by (†).

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC MAGNETIC REVERSING CONTROLLERS

CR109 Across-the-line—NEMA Sizes 00-5



FEATURES

- Eliminates short circuits—interference-type of mechanical interlock prevents one starter or contactor from picking up while the other is energized.
- Cross electrical interlocking for additional protection—available in momentary contact push-button stations.

ORDERING DIRECTIONS

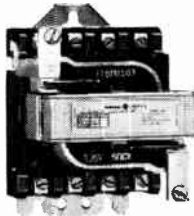
1. Specify controller by complete CR number and form. Specify coil voltage and cycles.

NEMA Size	Max Horsepower*			With Overload Relays (Single-phase, one O.L.; 2- and 3-phase, two O.L.'s)†				
	110 V	208/220V	440-600 V	Open Controller (with electrical cross interlocking)		List Price, Each	General Purpose NEMA Type 1 Case	
				With Horizontal Mech Int.	With Vertical Mech Int.		CR No.	List Price, Each
SINGLE-PHASE, 3-3 pole for 4-wire split phase or Rep. Ind. motor. Breaks one line; other goes to motor								
00	1/8	1	...	CR109 A0*AFA	.....	\$64	CR109 A1*AFA	\$68
0	1	2	...	CR109 B0*BBA	.....	76	CR109 B1*DAA	80
1	2	3	...	CR109 C0*FSA	.....	86	.....	.....
2	3	7 1/2	...	Size two and larger, use 3-phase, 3-3 pole forms listed below.				
3	7 1/2	15	...					
3-PHASE, 3-3 pole and 2-PHASE, 3-wire								
00	3/4	1 1/2	2	CR109 A0*AHA	.....	\$68	CR109 A1*AHA	\$72
0	2	3	5	CR109 B0*	CR109 B0*CAA	80	CR109 B1*	84
1	3	7 1/2	10	CR109 C0*	CR109 C0*CAA	90	CR109 C1*	96
2	7 1/2	15	25	CR109 D0*	CR109 D0*AMA	168	CR109 D1*	184
3	15	30	50	CR109 E0*	CR109 E0*AMA	277	CR109 E1*	305
4	25	50	100	CR109 F0*	CR109 F0*AMA	672	CR109 F1*	724
5	...	100	200	CR109 G0*	CR109 G0*AMA	1250	CR109 G1*	1551
2-PHASE, 4-wire, 4-4 pole								
0	2	3	5	CR109 R0*	CR109 R0*CAA	\$100	CR109 R1*	\$104
1	3	7 1/2	10	CR109 S0*	CR109 S0*CAA	113	CR109 S1*	117
2	7 1/2	15	25	CR109 T0*	.....	210	CR109 T1*	226
3	15	30	50	CR109 U0*	CR109 U0*AMA	346	CR109 U1*	376

† Overload heaters may be omitted or additional ones ordered at \$1.50 each list.
 * For 380 volts, use 440-volt rating, but over 50 hp reduce hp rating to 85% of 440-volt value.
 * Specify coil voltage and cycles.

GENERAL ELECTRIC MAGNETIC CONTACTORS AND SWITCHES

CR105, CR2810 and CR2811 Forms



No Control Wiring—includes one NO Auxiliary Contact

FEATURES

- Straight-through wiring—line leads connected at top, load leads at bottom, to speed installation.
- Snap-slide disassembly—allows for contact inspection in 10 seconds, coil change in 30 seconds—without tools!
- Vertically-slanted contacts—resist contact contamination and bounce, increase starter life.

ORDERING DIRECTIONS

1. Specify contactor or magnetic switch by CR number and Form. Specify coil voltage and cycle.

NEMA Size	8-Hr Amp Rating A-C (For D-C Refer G.E.)			No. of MAIN Poles (In addition to NO Aux. Contact)	Open Contactor		General-purpose Type 1 Case	
	En-closed	Open	In-cand. Lamp Load*		Cat. No.	List Price, Each	Cat. No.	List Price, Each
....	9	10	5	11 12 13 14	CR2810 A11AA* A11AB* A11AC* A11AD*	\$ 17 20 23 31	CR2811 A200A* A201A* A202A* A203A*	\$ 19 22 25 33
00	9	10	...	13	CR105 A0*	23	CR105 A1*	25
0	18	20	10	11 12 13 14	CR105 J0*ADA J0* B0* R0*AEA	23 26 29 37	CR105 J1*ADA J1* B1* R1*AEA	25 28 31 39
1	27	30	15	11 12 13 14	CR105 K0*ADA K0* C0* S0*AEA	28 31 34 42	CR105 K1*ADA K1* C1* S1*AEA	30 33 36 44
2	45	50	30	2 3 4	CR105 L0* D0* T0*	58 62 80	CR105 L1* D1* T1*	68 72 90
3	90	100	60	2 3 4	CR105 M0* E0* U0*	92 100 128	CR105 M1* E1* U1*	112 120 148
4	135	150	120	2 3 4	CR105 N0* F0* W0*	222 240 334	CR105 N1* F1* W1*	264 282 376
5	270	300	240	2 3 4	CR105 P0* G0* Z0*	481 523 961	CR105 P1* G1* Z1*	558 600 1115

φ For fluorescent lamps use ratings in "Enclosed" or "Open" column.
 † Auxiliary contact on sizes 00, 0, and 1 is rated same as main contacts. Thus, if auxiliary contact is not required, order a form with one less "pole."
 * Specify coil voltage and cycle.

The Above Items Are Subject to 15% Discount
 World Radio History

GENERAL ELECTRIC FLUSH- AND CAVITY-MOUNTED STARTERS



Front cover (flush plate) has knockouts for modifications.



Punched mounting strap with starter. Cover is included (typical arrangement for cavity mounting).



Starter on strap mounted in enclosure. Cover is included (used for mounting in plaster walls).

No. of Poles	NEMA Size	Ratings		For Cavity Mounting				For Mounting in Plaster Walls			
		Volts	Max. H.P.	Includes open starter mounting strap, and front cover†		Includes open starter, enclosure, and front cover†		Includes open starter, mounting strap, enclosure, and front cover†		Includes back of enclosure only (for use with starter)	
				Nomenclature	List Price, Each	Nomenclature	List Price, Each	Nomenclature	List Price, Each	Nomenclature	List Price, Each
SINGLE-PHASE											
2	0	115 230	1 2	CR106 J1 *BXA	\$41.00	CR106 J1 *BYA	\$42.00	CR106 J1 *BZA	\$47.00	CR106 X190B	\$6.00
	1	115 230	2 3	CR106 K1 *BXA	46.00	CR106 K1 *BYA	47.00	CR106 K1 *BZA	52.00	CR106 X190B	6.00
	1P	115 230	3 5	CR106 K1 *CAA	57.00	CR106 K1 *CBA	58.00	CR106 K1 *CCA	63.00	CR106 X190B	6.00
POLYPHASE											
3	0	110 208-220 440-600	2 3 5	CR106 B1 *GLA	\$46.00	CR106 B1 *GMA	\$47.00	CR106 B1 *GNA	\$52.00	CR106 X190B	\$6.00
	1	110 208-220 440-600	3 7½ 10	CR106 C1 *MVA	51.00	CR106 C1 *MTA	52.00	CR106 C1 *MSA	57.00	CR106 X190B	6.00
	2	110 208-220 440-600	7½ 15 25	CR106 D1 *DHA	94.00	CR106 D1 *DGA	95.00	CR106 D1 *DFA	100.00	CR106 X290B	6.00
4	0	110 208-220 440-600	2 3 5	CR106 R1 *BDA	57.00	CR106 R1 *BEA	58.00	CR106 R1 *BFA	63.00	CR106 X190B	6.00
	1	110 208-220 440-600	3 7½ 10	CR106 S1 *BGA	63.00	CR106 S1 *BHA	64.00	CR106 S1 *BJA	69.00	CR106 X190B	6.00
	2	110 208-220 440-600	7½ 15 25	CR106 T1 *ADA	113.00	CR106 T1 *AEA	114.00	CR106 T1 *AFA	119.00	CR106 X290B	6.00

†Standard enclosure covers (flush plate) are listed. Stainless steel covers also available (order by description). *Specify coil voltage and cycle.

**GENERAL ELECTRIC MODIFICATION KITS
AUXILIARY CONTACT UNIT KITS—CR105 X**



NEMA Size	Where Used	For Mounting on Contactor or Starter	Number of Contacts		Nomenclature	List Price, Each
			Either Open or Closed			
FOR CR105, CR106, CR107, CR108, CR109, CR110, AND CR111						
00, 0 or 1	For first unit on CR105 [includes brackets]	Either side‡	1†		CR105 X100M	\$6
00, 0 or 1	For all forms [includes brackets]	Either side‡	2†		CR105 X100N	9
00, 0 or 1	For all forms except first unit on CR105	Either side‡	1†		CR105 X100P	6
2	For first unit on CR105 [includes bracket]	Right side	1†		CR105 X200M	6
2	For all forms [includes bracket]	Either side*	2†		CR105 X200N	9
2	For all forms except first unit on CR105	Either side*	1†		CR105 X200P	6
3, 4 or 5	For all forms	.....	1		CR105 X300P	6
3, 4 or 5	For all forms	.....	2		CR105 X300N	9

* Assembled for mounting on right side of contactor.
‡ Assembled for mounting on left side of contactor.
† Supplied assembled with contact normally open.

ORDERING DIRECTIONS

Order by complete CR nomenclature.

START-STOP PUSH-BUTTON KIT

To be installed in cover of general purpose, NEMA Type 1 enclosed CR105-108 devices.



NEMA Size	Nomenclature	List Price, Each
00, 0, 1	CR105 X120N	\$8
2	CR105 X220N	8
3, 4	CR105 X320B	8
5	CR105 X520B	8

THIRD OVERLOAD RELAY KIT

To be installed on open or general purpose NEMA Type 1 enclosed starters and controllers.



NEMA Size	Nomenclature	List Price, Each
00, 0, 1	CR124 C024	\$6
2	CR124 D024	10
3	CR124 E024	25
4	CR124 F024	40
5	CR124 G024	70

INDICATING LIGHT KIT (RED)

Available for CR105-108 devices in general purpose, NEMA type 1 enclosures. Three resistors allow use with all voltages 110 through 600 volts.



NEMA Size	Nomenclature	List Price, Each
00, 0, 1	CR105 X150N	\$15
2	CR105 X250N	15
3, 4	CR105 X350B	15
5	CR105 X550B	15



HAND-OFF-AUTO SELECTOR SWITCH KIT

To be installed in cover of general purpose, NEMA Type 1 enclosed CR105-108 devices.

NEMA Size	Nomenclature	List Price, Each
00, 0, 1	CR105 X130N	\$8
2	CR105 X230N	8
3, 4	CR105 X330B	8
5	CR105 X530B	8



The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC HEATER SELECTION TABLES FOR FULL-VOLTAGE STARTERS

Overload Relay Heater Selection (Air Break Controls Only)

To select heaters for 1.15 service factor rated motors, use the actual full-load current of the motor and pick the heater catalog number from the "Heater Selection Table." For other motors, use the multipliers from the "Service Factor Conversion Table."

Example: Motor rated 1.2 ampere, 1.15 service factor
Starter—CR106, size 0, enclosed
Select heater CR123 C1.48A

Example: Motor rated 1.2 ampere, 1.00 service factor
Starter—CR106, size 0, enclosed
Select heater CR123 C1.31A

(Overload relays for size 5 starters and controllers may be selected direct from the "Selection Table" without the use of the "Conversion Table.")

Service Factor Conversion Table

A-C Motor Type	General Purpose Open 1.15 serv. factor	Totally Enclosed or Totally Enclosed Fan-cooled—1.00 service factor				
		Cont and Type KR	1 Hr.	30 Min.	15 Min.	5 Min.
Multiply Motor Amperes by and use "Heater Selection Table" below.	Use Table as Listed	0.90	0.80	0.75	0.70	0.60

Conversion Factors 1 Hp and Smaller Motors (Service Factor Greater than 1.15)

Horsepower	1	¾	½	¼
Multiply Name plate Current by and use table below.	1.1	1.1	1.1	1.15

How To Select Fuses

Provide motor branch circuit protection in accordance with Table 430-146 of the National

Electrical Code. In no case should fuse rating exceed 4 times full load motor current for magnetic starters; 3.5 times for manual starters.

HEATERS FOR FULL-VOLTAGE DEVICES

Heater Nomenclature	List Price, Each
CR123 C or F	\$1.50

Various types of enclosures help determine overload relay heater ratings. This table should be used to determine which column of motor full-load amperes applies for heater selection. Select in order, the device, the NEMA type of enclosure used and finally the column (A or B) to be used in the proper NEMA Size table.

Basic Device	NEMA Type of Enclosure	Use Heater Table Column	Quantity of Heaters Required
CR106	Open 4, 7, 9 1, 12, Flush Mt'd. (all)	A	2+
CR106		B	2+
CR107, CR108		B	2
CR109	Open, 4, 7, 9	A	2
CR109	1, 12	B	2

† 1 required for single-phase forms.

NEMA SIZES 00,0 AND 1

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
0.33	0.31	CR123 C0.36A
.37	.34	CR123 C0.39A
.41	.38	CR123 C0.43A
.46	.43	CR123 C0.48A
.52	.47	CR123 C0.54A
.57	.52	CR123 C0.60A
.61	.56	CR123 C0.66A
.67	.62	CR123 C0.71A
.75	.69	CR123 C0.78A
.84	.77	CR123 C0.87A
.94	.87	CR123 C0.97A
1.03	.94	CR123 C1.09A
1.14	1.04	CR123 C1.18A
1.30	1.18	CR123 C1.31A
1.42	1.30	CR123 C1.48A
1.61	1.47	CR123 C1.63A
1.72	1.56	CR123 C1.84A
1.93	1.75	CR123 C1.96A
2.10	1.90	CR123 C2.20A
2.34	2.13	CR123 C2.39A
2.64	2.40	CR123 C2.68A
2.86	2.60	CR123 C3.01A
3.13	2.84	CR123 C3.26A
3.32	3.02	CR123 C3.56A
3.68	3.34	CR123 C3.79A
4.08	3.72	CR123 C4.19A
4.61	4.20	CR123 C4.66A
5.21	4.73	CR123 C5.26A
5.62	5.02	CR123 C5.92A
6.12	5.55	CR123 C6.30A
6.83	6.21	CR123 C6.95A
7.70	6.92	CR123 C7.78A
8.48	7.64	CR123 C8.67A
9.19	8.31	CR123 C9.55A
9.92	9.04	CR123 C10.4B
11.1	9.99	CR123 C11.3B
12.2	10.9	CR123 C12.5B
13.5	12.0	CR123 C13.7B
14.6	13.0	CR123 C15.1B
16.1	14.3	CR123 C16.3B
17.9	15.8	CR123 C18.0B
19.3	17.0	CR123 C19.8B
20.6	18.1	CR123 C21.4B
22.6	19.9	CR123 C22.8B
24.8	21.8	CR123 C25.0B
27.0	24.2	CR123 C27.3B
.....	26.3	CR123 C30.3B
.....	27.0	CR123 C33.0B

SIZE 1P

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
15.1	....	CR123 C15.1B
16.7	15.0	CR123 C16.3B
18.5	16.6	CR123 C18.0B
20.0	17.9	CR123 C19.8B
21.4	19.0	CR123 C21.4B
23.5	20.9	CR123 C22.8B
25.8	22.9	CR123 C25.0B
28.7	25.4	CR123 C27.3B
31.2	27.6	CR123 C30.3B
36.0	30.7	CR123 C33.0B
....	33.5	CR123 C36.6B
....	36.0	CR123 C40.0B

NEMA SIZE 2

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
6.63	....	CR123 C6.95A
7.59	6.89	CR123 C7.78A
8.39	7.76	CR123 C8.67A
9.20	8.63	CR123 C9.55A
9.93	9.53	CR123 C10.4B
11.2	10.7	CR123 C11.3B
12.5	11.7	CR123 C12.5B
14.1	12.8	CR123 C13.7B
15.5	14.3	CR123 C15.1B
17.4	16.1	CR123 C16.3B
19.8	17.9	CR123 C18.0B
21.2	19.3	CR123 C19.8B
22.7	21.4	CR123 C21.4B
24.9	22.6	CR123 C22.8B
27.3	24.6	CR123 C25.0B
29.7	26.7	CR123 C27.3B
34.2	30.0	CR123 C30.3B
40.2	34.8	CR123 C33.0B
45.0	40.1	CR123 C36.6B
....	43.3	CR123 C40.0B
....	45.0	CR123 C44.0B

NEMA SIZE 3

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
23.1	20.9	CR123 F24.3B
26.3	23.5	CR123 F27.0B
28.5	25.5	CR123 F30.0B
30.9	27.7	CR123 F32.7B
33.8	30.3	CR123 F35.7B
36.5	32.8	CR123 F39.5B
41.1	37.1	CR123 F43.0B
47.6	42.9	CR123 F48.7B
52.5	47.0	CR123 F56.7B
56.8	50.1	CR123 F61.4B
61.9	54.5	CR123 F65.8B
67.9	58.5	CR123 F71.9B
75.5	64.1	CR123 F77.2B
79.6	68.6	CR123 F84.8B
87.9	77.5	CR123 F91.4B
90.0	83.2	CR123 F104C
.....	90.0	CR123 F114C

NEMA SIZE 4

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
37.8	34.3	CR123 F39.5B
42.6	38.9	CR123 F43.0B
49.8	45.3	CR123 F48.7B
54.2	49.0	CR123 F56.7B
59.0	52.6	CR123 F61.4B
65.5	57.4	CR123 F65.8B
70.8	61.6	CR123 F71.9B
79.1	67.8	CR123 F77.2B
83.6	73.0	CR123 F84.8B
92.9	83.1	CR123 F91.4B
100	94.7	CR123 F104C
110	....	CR123 F114C
124	105	CR123 F138C
135	118	CR123 F133C
.....	135	CR123 F149C

NEMA SIZE 5†

Max. Motor Full-load Amperes		Heater Cat. No.
A	B	
76.2	....	CR123 C3.79A
84.2	79.9	CR123 C4.19A
94.6	90.1	CR123 C4.66A
105	100	CR123 C5.26A
111	107	CR123 C5.92A
122	114	CR123 C6.30A
137	127	CR123 C6.95A
153	137	CR123 C7.78A
170	147	CR123 C8.67A
185	159	CR123 C9.55A
201	170	CR123 C10.4B
223	185	CR123 C11.3B
244	202	CR123 C12.5B
266	218	CR123 C13.7B
270	231	CR123 C15.1B
....	250	CR123 C16.3B
....	270	CR123 C18.0B

† 60/50 cycles.

HEATER CROSS-REFERENCE

Old Cat. No.	New Cat. No.
81D228	CR123 C0.36A
81D224	CR123 C0.39A
81D225	CR123 C0.43A
81D230	CR123 C0.48A
81D525	CR123 C0.54A
81D231	CR123 C0.60A
81D526	CR123 C0.66A
81D527	CR123 C0.71A
81D233	CR123 C0.78A
81D528	CR123 C0.87A
81D529	CR123 C0.97A
81D530	CR123 C1.09A
81D531	CR123 C1.18A
81D238	CR123 C1.31A
81D532	CR123 C1.48A
81D533	CR123 C1.63A
81D534	CR123 C1.84A
81D535	CR123 C1.96A
81D536	CR123 C2.20A
81D537	CR123 C2.39A
81D538	CR123 C2.68A
81D539	CR123 C3.01A
81D540	CR123 C3.26A
81D541	CR123 C3.56A
81D542	CR123 C3.79A
81D543	CR123 C4.19A
81D544	CR123 C4.66A
81D545	CR123 C5.26A
81D546	CR123 C5.92A
81D547	CR123 C6.30A
81D548	CR123 C6.95A
81D549	CR123 C7.78A
81D550	CR123 C8.67A
81D551	CR123 C9.55A
81D553	CR123 C10.4B
81D554	CR123 C11.3B
81D555	CR123 C12.5B
81D556	CR123 C13.7B
81D557	CR123 C15.1B
81D267	CR123 C16.3B
81D256	CR123 C18.0B
81D558	CR123 C19.8B
81D559	CR123 C21.4B
81D560	CR123 C22.8B
81D561	CR123 C25.0B
81D562	CR123 C27.3B
81D261	CR123 C30.3B
81D262	CR123 C33.0B
81D266	CR123 C36.6B
81D263	CR123 C40.0B
81D580	CR123 F24.3B
81D581	CR123 F27.0B
81D582	CR123 F30.0B
81D583	CR123 F32.7B
81D584	CR123 F35.7B
81D585	CR123 F39.5B
81D586	CR123 F43.0B
81D587	CR123 F48.7B
81D588	CR123 F56.7B
81D589	CR123 F61.4B
81D590	CR123 F65.8B
81D591	CR123 F71.9B
81D592	CR123 F77.2B
81D593	CR123 F84.8B
81D594	CR123 F91.4B
81D595	CR123 F104C
81D596	CR123 F114C
81D597	CR123 F138C
81D598	CR123 F133C
81D599	CR123 F149C

Listed heaters are electrically and physically interchangeable.

GENERAL ELECTRIC STANDARD-DUTY PUSH BUTTON STATIONS

CR2943 and CR2941—A-c or D-c, Continuous Current 10 Amp, 600 Volts Max.



FEATURES

- Offer dependable, economical control for a-c magnetic starters in NEMA Sizes 00-4.
- Easy-to-operate buttons.
- Positive make and break.
- Easy wiring and installation.

CONTACT RATINGS

Volts	Carry Continuous Amps	Make Momentary Amps	Interrupting Capacity-Amperes	
			A-C Circuits	D-C Inductive Circuits
110-125	10	30	30	1.1
220-250	10	20	20	0.55
230	10	20	20	..
440-480	10	7.5	7.5	..
550-600	10	6	6	0.2

Description (Wiring Symbol)	Nameplate Markings	Surface-mounted		Flush-mounted, Gray Flush Plate				Flush-mounted, Stainless-steel Flush Plate			
		CR2943	List Price, Each	Form Less Wall Box CR2943	List Price, Each	Form With Wall Box CR2943	List Price, Each	Form Less Wall Box CR2943	List Price, Each	Form With Wall Box CR2943	List Price, Each

ONE UNIT STATIONS (Momentary Contact—except Selector Switches)

Black (A)	START (As Specified)	NA101E	\$ 6.00	NB301A	\$ 7.50	NB331A	\$11.00	NB301G	\$ 8.00	NB331G	\$11.50
Black (A)	STOP (As Specified)	AA101B	6.00*	AB301A	7.50*	AB331A	11.00*	AB301G	8.00*	AB331G	11.50*
Red (B)	STOP (As Specified)	NA101F	6.00	NB301B	7.50	NB331B	11.00	NB301H	8.00	NB331H	11.50
Red (B)	STOP (As Specified)	AA101A	6.00*	AB301B	7.50*	AB331B	11.00*	AB301H	8.00*	AB331H	11.50*
Red (B) (Locking Bar)	STOP (As Specified)	NA101G	9.00	NB301C	10.50	NB331C	14.00	NB301J	11.00	NB331J	14.50
Red (B) (Locking Bar)	STOP-START (As Specified)	AA101E	9.00*	AB301C	10.50*	AB331C	14.00*	AB301J	11.00*	AB331J	14.50*
2 Pos. Sel. Sw. (C) SPDT	OFF-ON (As Specified)	NA101D	6.00	NB301D	7.50	NB331D	11.00	NB301K	8.00	NB331K	11.50
2 Pos. Sel. Sw. (C) SPDT	OFF-ON (As Specified)	AA101E	6.00*	AB301D	7.50*	AB331D	11.00*	NB301L	8.00	NB331L	11.50
2 Pos. Sel. Sw. (C) SPDT	HAND-OFF-AUTO (As Specified)	AA101S†	6.00†	NB301F	7.50	AB331F	11.00	AB301K	8.00	AB331K	11.50
3 Pos. Sel. Sw. (C) SPDT	HAND-OFF-AUTO (As Specified)	AA101M‡	6.00‡	AB301E	7.50	AB331E	11.00	NB301M	8.00	NB331M	11.50
3 Pos. Sel. Sw. (C) SPDT	HAND-OFF-AUTO (As Specified)	AA101M‡	6.00‡	AB301E	7.50	AB331E	11.00	AB301L	8.00*	AB331H	11.50

TWO UNIT STATIONS (Momentary Contact)

Black, Red (D)	START-STOP	NA102A	6.00	NB302A	7.50	NB332A	11.00	NB302G	8.50	NB332G	12.00
Black, Red (D) (Locking Bar)	START-STOP	NA102C	9.00	NB302B	10.50	NB332B	14.00	NB302H	11.50	NB332H	15.00
Black (A), Red (B)	START-STOP	AA102H	6.00*	AB302A	7.50*	AB332A	11.00*	AB302E	8.50*	AB332E	12.00*
Black (A), Red (B) (Locking Bar)	START-STOP	AA102H	6.00*	AB302B	10.50*	AB332B	14.00*	AB302H	11.50*	AB332H	15.00*
Black (A), Red (B)	RAISE-LOWER (As Specified)	AA102AF	9.00*	AB302B	10.50*	AB332B	14.00*	AB302I	11.50*	AB332I	15.00*
Black (A), Red (B) (Locking Bar)	RAISE-LOWER (As Specified)	AA102B	7.50	NB302D	9.00	NB332D	12.50	NB302K	10.00	NB332K	13.50
Black (A), Black (A)	FORWARD-REVERSE	NA102D	7.50	NB302C	9.00	NB332C	12.50	NB302J	10.00	NB332J	13.50
Black (A), Black (A)	UP-DOWN	NA102E	7.50	NB302E	9.00	NB332E	12.50	NB302L	10.00	NB332L	13.50
Black (A), Black (A)	OPEN-CLOSE	NA102G	7.50	NB302F	9.00	NB332F	12.50	NB302M	10.00	NB332M	13.50
Black (A), Black (A)	OPEN-CLOSE (As Specified)	AA102A	7.50*	AB302C	9.00*	AB332C	12.50*	AB302D	10.00*	AB332D	13.50*

TWO UNIT STATIONS (Maintained Contact)

Black, Red (H)	START-STOP (As Specified)	NA102W	9.00	NB302Q	10.50	NB332Q	14.00	NB302N	11.50	NB332N	15.00
Black, Red (H)	ON-OFF (As Specified)	AB302	10.50*	AB332E	14.00*	AB302	14.00*	AB332	11.50*	AB332	15.00*
Black, Black (H)	ON-OFF	NA102X	9.00	NB302R	10.50	NB332R	14.00	NB302P	11.50	NB332P	15.00

THREE UNIT STATIONS (Momentary Contact)

Black (E), Black (E), Red (B)	UP-DOWN-STOP	NA103F	12.00	NB303D	13.50	NB333D	17.00	NB303K	15.00	NB333K	18.50
Black (E), Black (E), Red (B)	RAISE-LOWER-STOP	NA103G	12.00	NB303F	13.50	NB333F	17.00	NB303M	15.00	NB333M	18.50
Black (E), Black (E), Red (B)	FAST-SLOW-STOP	NA103H	12.00	NB303E	13.50	NB333E	17.00	NB303L	15.00	NB333L	18.50
Black (E), Black (E), Red (B)	FORWARD-REVERSE-STOP	NA103J	12.00	NB303B	13.50	NB333B	17.00	NB303H	15.00	NB333H	18.50
Black (E), Black (E), Red (B)	OPEN-CLOSE-STOP	NA103K	12.00	NB303C	13.50	NB333C	17.00	NB303J	15.00	NB333J	18.50
Black (E), Black (E), Red (B)	START-JOG-STOP	NA103L	12.00	AB303B	13.50*	AB333B	17.00*	AB303C	15.00*	AB333C	18.50*
Black (E), Black (E), Red (B)	START-JOG-STOP (As Specified)	AA103AA	12.00*	AB303B	13.50*	AB333B	17.00*	AB303C	15.00*	AB333C	18.50*
Black (E), Black (E), Red (B) (Locking Bar)	START-STOP (As Specified)	AA103C	15.00*	NB303A	22.00	NB333A	25.50	NB303G	23.50	NB333G	27.00
115/230 Volt Light (F), Black (A), Red (B)	START-STOP (As Specified)	NA103V	22.00	AB303A	22.00*	AB333A	25.50*	AB303D	23.50*	AB333D	27.00*
115/230 Volt Light (F), Black (A), Red (B)	START-STOP (As Specified)	NA103V	22.00	AB303A	22.00*	AB333A	25.50*	AB303D	23.50*	AB333D	27.00*

THREE UNIT STATIONS (Maintained Contact)

115/230 Volt Light (F), Black, Black (H)	START-STOP	NA103Y	25.00	NB303P	25.00	NB333P	28.50	NB303N	26.50	NB333N	30.00
115/230 Volt Light (F), Black, Red (H)	START-STOP	NA103Y	25.00	NB303P	25.00	NB333P	28.50	NB303N	26.50	NB333N	30.00

Description (Wiring Symbol)	Nameplate Markings	Nomenclature	List Price, Each
Gray Lever (B)§	STOP	CR2943 NJ101A	\$19.00
Gray Lever (A)	START	CR2943 NJ101B	19.00
Gray Lever (B)§	(As specified)	CR2943 AJ101A	19.00*
Gray Lever (A)	(As specified)	CR2943 AJ101B	19.00*
Gray Lever (A), (B)§	START-STOP	CR2943 NJ102A	19.00
Gray Lever (A), (A)	FORWARD-REVERSE	CR2943 NJ102E	19.00
Gray Lever (A), (A)	RAISE-LOWER	CR2943 NJ102F	19.00
Gray Lever (A), (A)	UP-DOWN	CR2943 NJ102G	19.00
Gray Lever (A), (A)	OPEN-CLOSE	CR2943 NJ102H	19.00
Gray Lever (A), (B)§	(As specified)	CR2943 AJ102A	19.00*
Gray Lever (A), (A)	(As specified)	CR2943 AJ102B	19.00*

EXPLOSION-PROOF, CLASS I, GROUPS C AND D, CLASS II, GROUPS E, F AND G, AIR-BREAK, NEMA Type 7

Gray Lever (B)§	STOP	CR2941 NA101A	\$23.00
Gray Lever (A)	START	CR2941 NA101B	23.00
Gray Lever (A)	(As specified)	CR2941 AA101T	23.00*
Gray Lever (A), (B)§	START-STOP	CR2941 NA102B	23.00
Gray Lever (A), (A)	FORWARD-REVERSE	CR2941 NA102F	23.00
Gray Lever (A), (A)	RAISE-LOWER	CR2941 NA102G	23.00
Gray Lever (A), (A)	UP-DOWN	CR2941 NA102H	23.00
Gray Lever (A), (A)	OPEN-CLOSE	CR2941 NA102J	23.00
Gray Lever (A), (A) §	(As specified)	CR2941 AA102B	23.00*

* Add \$1.50 per station for any nameplate markings or arrangements not shown above.
 † Five N.P.'s included: OFF-ON, FORWARD-REVERSE, HAND-AUTO, SLOW-FAST, OPEN-CLOSE.
 ‡ Three N.P.'s included: HAND-OFF-AUTO FORWARD-OFF-FAST OPEN-OFF-CLOSE.
 § Includes hole for padlock on STOP.

WALL BOXES

Separate wall boxes are available for use with flush-mounted stations. They may be installed during wall construction. Stations may be ordered with wall box attached or less wall box from table above.

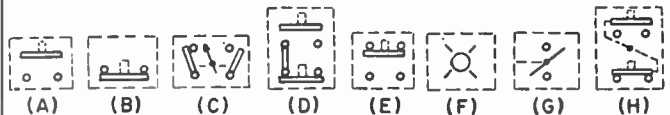
Wall Box for 1 and 2 Unit Station
 CR2943 XB332A \$3.50 ea.
 Wall Box for 3 Unit Station
 CR2943 XB333A \$3.50 ea.

FLUSH-MOUNTED STATIONS WITH MINIATURE UNITS
 General-purpose, Stainless-steel Flush Plate

Description (Wiring Symbol)	Nameplate Markings	Nomenclature	List Price, Each
Black, Red (D)	START-STOP	CR2943 NB202A	\$ 8.00
Black, Red (D)	START-STOP	CR2943 NB203A	19.00
115/230 Volt Light (F)	ON-OFF	CR2943 NB201A	8.00
2 Pos. Toggle, SPST (G)	ON-OFF	CR2943 NB202B	19.00
115/230 Volt Light (F)			

WIRING SYMBOLS

(As noted under description in tables.)



ORDERING DIRECTIONS: Order all pushbutton stations by complete CR nomenclature.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC HEAVY-DUTY PUSH BUTTONS

CR2940 and CR2941—A-c or D-c, Continuous Current 10 Amp, 600 Volts Max.



FEATURES

- Offer dependable control for contactors and starters through NEMA Size 5.
- Units interchangeable within a station, and can be used with any of six color rings.
- Provide flexibility of application and color coding with a minimum stock.
- Full 180-degree accessibility.
- Back-mounted contact blocks.
- Choice of units.

CONTACT RATINGS

Volts	Carry Continuous Amps	Make Momentary Amps	Interrupting Capacity—Amps	
			A-C Circuits	D-C Inductive Circuits
110-125	10	60	60	2.2
220-250	10	30	30	1.1
440-480	10	15	15	.4
550-600	10	12	12	.4

COMPLETE STATIONS

Wiring Symbol	Features and Color Coding	Nameplate Marking	Indicating Light Rating	General Purpose—NEMA Type 1			Watertight and Dust-tight—NEMA Type 4 Surface-mounted (Lever-operated)		Explosion-Proof, Class I, Groups C and D, or Class II, Groups E, F and G—NEMA Type 7 Surface-mounted (Lever-operated. May be used with or without oil)	
				Surface-mounted	Flush-mounted (Does not include back of panel covers.)	List Price, Each	CR2940 Form	List Price, Each	CR2941 Form	List Price, Each

STATIONS WITH MOMENTARY CONTACT UNITS

	No. 1 Red	{ STOP As specified	.....	NA401A AA401A	AB201A	\$11.00 11.00	.....	.....	.....	.....
	No. 1 Red with Locking Means	{ STOP As specified	.....	NA401G AA401B	AB201X	14.00 14.00	AJ201A	\$23.00	AA201A	\$27.00
	No. 1 Black	{ START JOG As specified	.....	NA401B NA401H AA401H	.....	11.00 11.00 11.00	.....	.....	.....	.....
	No. 1 Black with Mushroom Head	{ START As specified	.....	NA401J AA401G	AB201N	14.00 14.00	.....	.....	.....	.....
	No. 1 Red with Mushroom Head	{ STOP As specified	.....	NA401S AA401S	AB201L	14.00 14.00	.....	.....	.....	.....
	No. 1 Black, No. 2 Red	{ START-STOP As specified	.....	NA402A AA402A	NB202A AB202A	17.00 17.00	.....	.....	.....	.....
	No. 1 Both Black	As specified	.....	AA402M	AB202G	17.00	.....	.....	.....	.....
	No. 2 No. 1 Black, No. 2 Red with Locking Means	{ START-STOP As specified	.....	NA402B AA402B	AB202AB	20.00 20.00	NJ202A AJ202A	26.00 26.00	NA202A AA202A	30.00 30.00
	No. 1 No. 1 Black, No. 2 Red with Mushroom Head	As specified	.....	AA402E	AB202AK	20.00	.....	.....	.....	.....
	No. 1	{ FORWARD REVERSE-STOP UP-DOWN-STOP START-JOG-STOP As specified	.....	NA403A NA403E NA403B AA403A	.....	22.00 22.00 22.00 22.00	.....	.....	.....	.....
	No. 2 No. 1 and 2 Black, No. 3 Red	As specified	.....	AA403B	.....	25.00	AJ203A	44.00	AA203A	58.00
	No. 3 No. 1 and 2 Black, No. 3 Red with Locking Means	As specified	.....	AA404A	AB204A	27.00	AJ204A	53.00	.....	.....
	No. 4 (If used) No. 1, 2, 3 Black, No. 4 Red	As specified	.....	AA405A	AB205A	32.00	.....	.....	.....	.....
	No. 5 (If used) No. 1, 2, 3, 4 Black, No. 5 Red	As specified	.....	.....	.....	.....	.....	.....	.....	.....

STATIONS WITH INDICATING LIGHT(S)*

	No. 1 Light*	As specified	110-125 v, ac-de 208-250 v, ac-de 440 v, 60/50 eye	AA401F AA401J AA401K	AB201E AB201H AB201J	\$16.00 16.00 18.00	AJ201BK AJ201G AJ201H	\$28.00 28.00 30.00	Contact your G-E Supplier	.....
	No. 1 No. 1 Red Light*, No. 2 Black, No. 3 Red	START-STOP	110-125 v, ac-de 208-250 v, ac-de 440 v, 60/50 eye	NA403L NA403C NA403D	.....	27.00 27.00 29.00	.....	.....	.....	.....
	No. 2 No. 1 Light*, No. 2 Black, No. 3 Red	As specified	110-125 v, ac-de 208-250 v, ac-de 440 v, 60/50 eye	AA403L AA403S AA403T	AB203E AB203F AB203G	27.00 27.00 29.00	AJ203D AJ203E AJ203F	49.00 49.00 51.00	AA203B AA203C AA203D	\$63.00 63.00 65.00
	No. 3 No. 1 Light*, No. 2 Black, No. 3 Red, No. 4 Light*	As specified	110-125 v, ac-de 208-250 v, ac-de 440 v, 60/50 eye	AA404F AA404J AA404K	AB204B AB204C AB204D	37.00 37.00 41.00	AJ204D AJ204F AJ204G	63.00 63.00 67.00	AA204A AA204B AA204C	100.00 100.00 104.00
	No. 4 (If used) No. 1, 2, 3, 4 Black, No. 5 Red	As specified	.....	.....	.....	.....	.....	.....	.....	.....
	No. 1 No. 1 Light*, Nos 2 and 3 mechanically interlocked, No. 2 Black, No. 3 Red	As specified	110-125 v, ac-de 208-250 v, ac-de 440 v, 60/50 eye	AA403DB AA403DJ AA403EY	AB203AY AB203R AB203AK	27.00 27.00 29.00	AJ203S AJ203AG AJ203T	49.00 49.00 51.00	AA203E AA203F AA203G	\$63.00 63.00 65.00
	No. 2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	No. 3	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Indicating-light color caps are available in red, green, amber, blue, white or clear.

The Above Items Are Subject to 15% Discount







GENERAL ELECTRIC HEAVY-DUTY PUSH BUTTONS (Continued)

CR2940 and CR2941—A-c or D-c. Continuous Current 10 Amp, 600 Volts Max.


COMPLETE STATIONS

Wiring Symbol	Features and Color Coding	Nameplate Marking	General Purpose—NEMA Type 1			Watertight and Dust-tight—NEMA Type 4 Surface-mounted (Lever-operated)		Explosion-proof, Class I, Groups C and D, or Class II, Groups E, F and G—NEMA Type 7 Surface-mounted (Lever-operated. May be used with or without oil)	
			Surface-mounted	Flush-mounted (Does not include back of panel covers.)	List Price, Each	CR2940 Form	List Price, Each	CR2941 Form	List Price, Each

STATIONS WITH SELECTOR SWITCH

	Black, Double Pole, Single Throw (2-position)	{SAFE STOP-RUN OFF-ON STOP-RUN (As specified)	NA401E NA401F NA401C AA401D	..... ..... ..... AB201D	\$12.00 12.00 12.00 12.00	..... ..... ..... AJ201C	..... ..... ..... \$24.00	..... ..... ..... AA202B	..... ..... ..... \$28.00
	Black, Single Pole, Double Throw (3-position)	{HAND-OFF-AUTO (As specified)	NA401D AA401E	..... AB201C	12.00 12.00	..... AJ201D	..... 24.00	..... AA202C	..... 28.00
	No. 1 No. 2 No. 1 Black, No. 2 Black, double-pole, single-throw selector switch (2-position)	As specified	AA402G	AB202D	18.00	.....	.....	.....	.....
	No. 1 No. 2 No. 1 Black, No. 2 Black, single-pole, double-throw selector switch (3-position)	As specified	AA402R	AB202BG	18.00	.....	.....	.....	.....
	No. 1 No. 2 No. 3 No. 1 Black, No. 2 Red, No. 3 Black Selector Switch, SPDT (3-position) No. 1 and 2 Black, No. 3 Black Selector Switch, SPDT (3-position)	As specified As specified	AA403P AA403H	AB203C AB203H	23.00 23.00	..........	..........	..........	..........
	No. 1 No. 2 No. 3 No. 4 No. 5 No. 1 Black, No. 2 Red, No. 3 Black Selector Switch, DPST (2-position) No. 1 and 2 Black, No. 3 Black Selector Switch, DPST (2-position) No. 1 and 2 Black, No. 3 Red, No. 4 Black Selector Switch, DPST (2-position) No. 1, 2 and 3 Black, No. 4 Red, No. 5 Black Selector Switch, DPST (2-position)	As specified As specified As specified As specified	AA403G AA403N AA404C AA405C	AB203T AB203J AB204S AB205AB	23.00 23.00 28.00 33.00	....................	....................	....................	....................

STATIONS WITH MAINTAINED CONTACT

	No. 1 No. 2 1 Maintained Contact Mechanism with 2 Interlocked Buttons; No. 1 Black, No. 2 Red 1 Maintained Contact Mechanism with 2 Interlocked Buttons; Both Black	{RUN-STOP As specified {PUMP 1—PUMP 2 As specified	NA402C AA402F NA402D AA402N AB202C AB202J	\$17.00 17.00 17.00 17.00 AJ202B \$26.00
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ORDERING DIRECTIONS

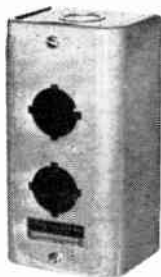
Order pushbutton stations by complete nomenclature. For stations "as specified," desired nameplate markings and/or color of indicating light lens must be shown on order for each position.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC HEAVY-DUTY PUSH BUTTONS (Continued)

CR2940 and CR2941—A-c or D-c, Continuous Current 10 Amp, 600 Volts Max.

GENERAL PURPOSE ENCLOSURES, SURFACE-MOUNTED



Number of Units	Enclosure Only (No Units Installed)		Complete Station with Customer Specified Units Installed	
	Nomenclature	List Price, Each	Nomenclature	List Price, Each†
1	CR2940 BA401A	\$7.00	CR2940 FA401A	\$7.00
2	BA402A	9.00	FA402A	9.00
3	BA403A	10.00	FA403A	10.00
4	BA404A	11.00	FA404A	11.00
5	BA405A	12.00	FA405A	12.00
6	BA406A	13.00	FA406A	13.00

† Price does not include push-button units, selector switches, nameplates, etc.

PUSH BUTTON UNITS



COLOR RINGS (Use with Push-button Units)

Color	Nomenclature	List Price, Each
Black	CR2940 U200B	\$0.20
Red	U200C	.20
Yellow	U200I	.20
Green	U200E	.20
Blue	U200AR	.20

Type of Buttons	Color Ring(s)	Forms with 1NO-1NC Contacts		Forms with 2NO-2NC Contacts	
		Nomenclature	List Price, Each	Nomenclature	List Price, Each
Standard Button	None	CR2940 UA402A	\$3.50	CR2940 UA403A	\$6.50
	Black	UA402B	4.00†	UA403B	7.00†
	Red	UA402C	4.00†	UA403C	7.00†
	Yellow	UA402D	4.00†	UA403D	7.00†
	Green	UA402F	4.00†	UA403E	7.00†
	Blue	UA402F	4.00†	UA403F	7.00†
Extra-long-Button	Black	CR2940 UJ402B	4.00†	CR2940 UJ403B	7.00†
	Red	UJ402C	4.00†	UJ403C	7.00†
Mushroom head Button	Black	CR2940 UK402B	7.00†	CR2940 UK403B	10.00†
	Red	UK402C	7.00†	UK403C	10.00†
	Yellow	UK402D	7.00†	UK403D	10.00†
	Green	UK402E	7.00†	UK403E	10.00†
Maintained-contact (2 operators plus mechanism)	Black-Red	CR2940 UM402B	8.00†	CR2940 UM403B	11.00†
	Black-Black	UM402C	8.00†	UM403C	11.00†

SELECTOR SWITCH UNITS



Color Ring	Operator Cam Number	Operator with Single Block (1NO-1NC)			Operator with Double Block (2NO-2NC)		
		Contact Arrangement (Arrow indicates knob position)	Nomenclature	List Price, Each	Contact Arrangement (Arrow indicates knob position)	Nomenclature	List Price, Each
Black	9	<p>2-position</p>	CR2940 UB402A	\$5.00†	<p>2-position</p>	CR2940 UB403A	\$8.00†
Black	2	<p>3-position</p>	CR2940 UB402B	5.00†	<p>3-position</p>	CR2940 UB403B	8.00†
Black	9	.....	.....	.....	<p>2-position</p>	CR2940 UB431A	5.00†

† Price includes standard nameplate marking. Nameplate may be omitted at \$0.30 each.

The Above Items Are Subject to 15% Discount

INDICATING LIGHT UNITS



Rating	Color Cap	Nomenclature	List Price, Each
110-125 V ac-dc (Full-voltage Type)	None	CR2940 UC413A2	\$8.30+
	Red	CR2940 UC413B2	9.00+
	Green	UC413C2	9.00+
	Amber	UC413D2	9.00+
	Blue	UC413E2	9.00+
	White	UC413F2	9.00+
208-250 V ac-dc (Resistor Type)	None	CR2940 UD413A3	8.30+
	Red	CR2940 UD413B3	9.00+
	Green	UD413C3	9.00+
	Amber	UD413D3	9.00+
	Blue	UD413E3	9.00+
	White	UD413F3	9.00+
440 V 60/50-Cycle (Transformer Type)	None	CR2940 UE413A4	10.30+
	Red	CR2940 UE413B4	11.00+
	Green	UE413C4	11.00+
	Amber	UE413D4	11.00+
	Blue	UE413E4	11.00+
	White	UE413F4	11.00+

COLOR CAPS (FOR INDICATING LIGHT UNITS)

Color	Nomenclature	List Price, Each
Red	CR2940 U200H	\$0.70
Green	U200J	.70
Amber	U200K	.70
Blue	U200L	.70
White	U200M	.70
Clear	U200N	.70

LOCKING MEANS

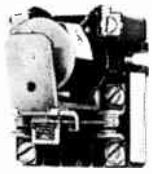


Holds standard button in slightly depressed position. Does not include padlock.

CR2940 UL200 \$3.00 ea.

GENERAL ELECTRIC GENERAL-PURPOSE INDUSTRIAL RELAYS

**CR120 E RELAYS
A-C CONTACT RATINGS**



Contact Arrangement, NO or NC	A-c Amp Ratings				
	6-32 V	11.5 V	230 V	440 V	550 V
Single Break	60	60	30	10	10
Double Break	85	85	42	15	15

Max HP Single-phase	Continuous Current 600 V Max		Contact Arrangement		Open Relays	List Price, Each	General-purpose, NEMA Type 1 Enclosed Relays	List Price, Each
	115 V	230 V	Single Break	Double Break					NO	NC	Nomenclature	Nomenclature

STANDARD FORMS

3/4	1	..	15	..	1	CR120 E001*	\$5.85	CR120 E101*	\$8.35
1 1/2	1 1/2	..	10	..	2#	CR120 E002*	9.70	CR120 E102*	12.20
3/4	1	..	15	1	..	CR120 E010*	5.35	CR120 E110*	7.85
1 1/2	1 1/2	..	10	1	1	CR120 E011*	9.70	CR120 E111*	12.20
3/4	1 1/2	..	10	..	2#	CR120 E020*	8.30	CR120 E120*	10.80
1 1/2	1 1/2	..	10	1†	1†	CR120 E202*	8.80	CR120 E203*	11.30

WITH RESISTOR FOR USE IN THERMOSTATIC AND SIMILAR CIRCUITS

1/2	1/2	..	10	1†	1†	CR120 E204*	10.30	CR120 E205*	12.80
1/2	1/2	10	..	2	..	CR120 E207*	9.80	CR120 E208*	12.30

WITH TRANSFORMER FOR USE IN THERMOSTATIC AND SIMILAR CIRCUITS

1/2	1/2	..	10	1†	1†	CR120 E209*	16.30*	CR120 E206*	21.30
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*Specify coil voltage and cycles.

†May also be used in 3-phase circuit (3rd line goes directly to motor). Max hp: 1 1/2 hp at 220, 440, and 550 volts.

‡Circuits must be of same polarity.

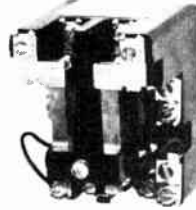
ORDERING DIRECTIONS

Specify relay by complete CR nomenclature.

CR120 J RELAYS

FEATURES

- Multicircuit flexibility—Available in 16 forms from 1 to 4 circuits.
- Small, compact size—1 1/8 in. wide by 2 5/8 in. high.
- Easy to install—Two-hole mounting makes installation or conversion fast and easy.
- Convenient wiring—Large screw-type terminals.



CONTACT RATINGS

Volts A-C	HP Ratings		Amp Ratings	
	1-ph	3-ph	1-pole	2 poles in series
115 ac	1/2	1/2	10	10
230 ac	1/2	1/2	10	10

Number of Poles	Contact Arrangement	Open Forms		General Purpose, NEMA Type 1	
		Nomenclature	List Price, Each	Nomenclature	List Price, Each
1	1 NO 1 NC 1 NO-1 NC†	CR120 J100*	\$5.45	CR120 J1100*	\$7.95
		CR120 J010*	5.45	CR120 J1010*	7.95
		CR120 J001*	8.40	CR120 J1001*	10.90
2	2 NO 2 NC 2 (1 NO-1 NC)† 1 NO-1 NC†	CR120 J200*	8.30	CR120 J1200*	10.80
		CR120 J020*	9.80	CR120 J1020*	12.30
		CR120 J002*	11.50	CR120 J1102*	14.20
		CR120 J110*	8.30	CR120 J1110*	10.30
3	3 NO 2 NO-1 NC† 1 NO-2 NC† 3 NC	CR120 J300*	11.80	CR120 J1300*	14.60
		CR120 J210*	11.80	CR120 J1210*	14.60
		CR120 J120*	11.80	CR120 J1120*	14.60
		CR120 J030*	11.80	CR120 J1030*	14.60
4	4 NO 3 NO-1 NC† 2 NO-2 NC† 1 NO-3 NC† 4 NC	CR120 J400*	14.10	CR120 J1400*	16.90
		CR120 J310*	14.10	CR120 J1310*	16.90
		CR120 J220*	14.10	CR120 J1220*	16.90
		CR120 J130*	14.10	CR120 J1130*	16.90
		CR120 J040*	14.10	CR120 J1040*	16.90

*Specify coil voltage and cycles.

†Contacts are non-isolated.

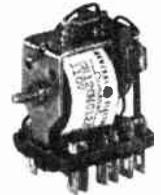
‡Contacts are isolated.

GENERAL ELECTRIC GENERAL-PURPOSE COMPACT RELAYS

CR120 H—230 Volts Max A-c, 110 Volts Max D-c; 60 Cycles Max

FEATURES

- Variety of Forms—5-amp, 10-amp relays and latch forms and current sensitive relays.
- Not Position Sensitive—relays will operate in any position.
- Mounting Flexibility—forms available for front- or back-connection, plug-in or channel-mounting. Open relays either stud- or screw-mounted.
- Small Size—occupies only 3 to 5 cubic inches.



OPEN RELAYS

Coil Voltage Type	Contact Arr.	SCREW MOUNTING—5-AMP CONTACTS				STUD MOUNTING—5-AMP CONTACTS				SCREW MTG—10-AMP CONTACTS		STUD MTG—10-AMP CONTACTS	
		0.110" Single Terminals		0.205" Double Terminals		0.110" Single Terminals		0.205" Double Terminals		0.205" Double Terminals		0.205" Double Terminals	
		Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price
A-c Coils	SPDT	CR120 HG81C*	\$4.54†	CR120 HG11C*	\$4.66†	CR120 HG62C*	\$4.54†	CR120 HG12C*	\$4.66†	CR120 HC11C*	\$4.72†	CR120 HC12C*	\$4.72†
	DPDT	HG81J*	5.46†	HG11J*	5.70†	HG82J*	5.46†	HG12J*	5.70†	HC11J*	5.81†	HC12J*	5.81†
	3PDT	HG81W*	6.01†	HG11W*	6.37†	HG62W*	6.01†	HG12W*	6.37†	HC11W*	6.54†	HC12W*	6.54†
D-c Coils	SPDT	CR120 HH61C*	\$4.33†	CR120 HH11C*	\$4.45†	CR120 HH62C*	\$4.33†	CR120 HH12C*	\$4.45†	CR120 HF11C*	\$4.50†	CR120 HF12C*	\$4.50†
	DPDT	HH61J*	4.82†	HH11J*	5.06†	HH62J*	4.82†	HH12J*	5.06†	HF11J*	5.18†	HF12J*	5.18†
	3PDT	HH61W*	5.45†	HH11W*	5.81†	HH62W*	5.45†	HH12W*	5.81†	HF11W*	5.98†	HF12W*	5.98†

DUST-COVER RELAYS

Coil Voltage Type	Contact Arr.	BACK-MOUNTED—5-AMP CONTACTS				FRONT-MOUNTED§—5-AMP CONTACTS				BACK-MTD—10-AMP CONTACTS		FRONT-MTD§—10-AMP CONTACTS	
		0.110" Single Offset¶ Terminal		0.205" Double Terminal		0.110" Single Terminal		0.205" Double Terminal		0.205" Double Terminal		0.205" Double Terminal	
		Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price	Nomenclature	List Price
A-c Coils	SPDT	CR120 HG53C*	\$7.37†	CR120 HG13C*	\$7.49†	CR120 HG64C*	\$7.37†	CR120 HG14C*	\$7.49†	CR120 HC13C*	\$7.61†	CR120 HC14C*	\$7.61†
	DPDT	HG53J*	8.30†	HG13J*	8.54†	HG64J*	8.30†	HG14J*	8.54†	HC13J*	8.76†	HC14J*	8.76†
	3PDT	HG53W*	9.57†	HG13W*	9.93†	HG64W*	9.57†	HG14W*	9.93†	HC13W*	10.27†	HC14W*	10.27†
D-c Coils	SPDT	CR120 HH53C*	\$7.16†	CR120 HH13C*	\$7.28†	CR120 HH64C*	\$7.16†	CR120 HH14C*	\$7.28†	CR120 HF13C*	\$7.41†	CR120 HF14C*	\$7.41†
	DPDT	HH53J*	7.66†	HH13J*	7.90†	HH64J*	7.66†	HH14J*	7.90†	HF13J*	8.15†	HF14J*	8.15†
	3PDT	HH53W*	9.01†	HH13W*	9.37†	HH64W*	9.01†	HH14W*	9.37†	HF13W*	9.75†	HF14W*	9.75†

* Specify coil voltage and cycles.

† For 115-volt a-c max coils. Add \$0.55 for 230-volt 60/50 cycle coils.

‡ For 24-volt d-c max coils. Add \$0.84 for 48- or 110-volt d-c coils.

§ 0.110 straight also available.

¶ Available with manual operator and/or indicating light.

NOTE: For available forms not listed above, contact Graybar.

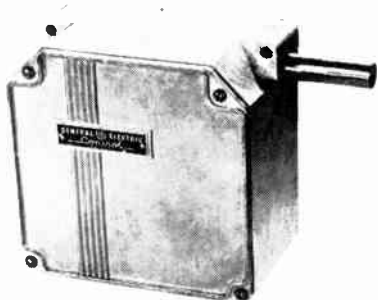
ORDERING DIRECTIONS

Specify relay by complete CR nomenclature. Specify coil voltage and cycles.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC GEARED ROTARY LIMIT SWITCHES

CR115 E



FEATURES

- **Long Life**—Switch equipped with rugged bearings and shaft extension on either or both sides.
- **Rapid Reset**—Requires fewer turns to reset than other switches of this type.
- **Easy Adjustment**—Trip points of operating cams can be quickly and easily adjusted with standard screwdriver.
- **Versatility of Control**—Up to four precision snap-acting switches available; each will control independent function.

ORDERING DIRECTIONS

Specify CR number of limit switch from nomenclature table. Select shaft extension (by type of shaft end and desired side) and substitute suffix number in place of ** in device nomenclature.

CONTACT RATINGS

A-c Pilot Duty			D-c Pilot Duty		
Volt	Break	Make	Volt	Single-throw	Double-throw
110	15 amp	40 amp	115	0.5 amp	0.25 amp
220	10 amp	20 amp	230	0.25 amp	0.1 amp
440	6 amp	10 amp	600	0.05 amp	.....
600	5 amp	8 amp			

Nominal Input Shaft To Cam Ratio	No. of Turns of Input Shaft To:				Contact Arrangement (Snap acting contacts)†	Pipe Tap Size (In.)	NEMA Type 1 Enclosed Forms	
	Trip Switch			Reset Switch			Nomenclature	List Price, Each‡
	Max.	Min.	Over-travel					
20:1	19	1	1/2	1/4	2 NO-2 NC	3/4	CR115 E1211**	\$38.50
					3 NO-3 NC		CR115 E1311**	69.60
					4 NO-4 NC		CR115 E1411**	72.50
40:1	38	2	1	2/3	2 NO-2 NC	3/4	CR115 E1221**	38.50
					3 NO-3 NC		CR115 E1321**	69.60
					4 NO-4 NC		CR115 E1421**	72.50
80:1	75	3	2	1	2 NO-2 NC	3/4	CR115 E1231**	38.50
					3 NO-3 NC		CR115 E1331**	69.60
					4 NO-4 NC		CR115 E1431**	72.50
111:1	104	1	3/4	1/3	2 NO-2 NC	3/4	CR115 E1241**	38.50
					3 NO-3 NC		CR115 E1341**	69.60
					4 NO-4 NC		CR115 E1441**	72.50
222:1	208	2	6 1/2	2/3	2 NO-2 NC	3/4	CR115 E1251**	103.10
					3 NO-3 NC		CR115 E1351**	172.00
					4 NO-4 NC		CR115 E1451**	106.00
320:1	300	1	10	1/3	2 NO-2 NC	3/4	CR115 E1261**	72.00
					3 NO-3 NC		CR115 E1361**	103.10
					4 NO-4 NC		CR115 E1461**	106.00
445:1	415	3	13	1	2 NO-2 NC	3/4	CR115 E1271**	72.00
					3 NO-3 NC		CR115 E1371**	103.10
					4 NO-4 NC		CR115 E1471**	106.00
640:1	600	2	20	2/3	2 NO-2 NC	3/4	CR115 E1281**	72.00
					3 NO-3 NC		CR115 E1381**	103.10
					4 NO-4 NC		CR115 E1481**	106.00
1280:1	1200	3	40	1	2 NO-2 NC	3/4	CR115 E1291**	75.00
					3 NO-3 NC		CR115 E1391**	106.10
					4 NO-4 NC		CR115 E1491**	109.00

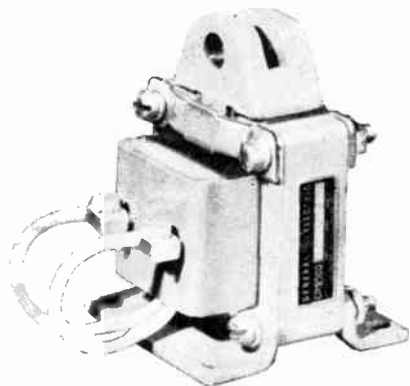
† For slow make and break forms refer to Graybar.
‡ For shaft extension on both sides, add \$1.00 each list.

****SUFFIX TABLE (FOR SHAFT EXTENSION TYPE)**

Description (Type of Shaft End)	**Shaft Extension On:		
	Right Side	Left Side	Both Sides‡
Standard Plain-end Shaft	01	11	21
Woodruff Key Type End Shaft*	02	12	22

‡ For shaft extension on both sides, add \$1.00 each list.
* No. 3 Woodruff Key is provided.

GENERAL ELECTRIC INDUSTRIAL STRONG-BOX SOLENOIDS



FEATURES

- **Life**—New and unequalled mechanical life proven by many test hours.
- **Strong-box Coil**—Moisture-, oil- and shock-resistant.
- **Small Size**—Occupies 22 percent less space than previous forms.
- **Flexible Mounting**—Solenoids can be mounted in any of five different ways.
- **Versatility of Wiring**—Provisions for either lead or terminal type connection.

Type of Operation	Max. Stroke in Inches	Net Pounds Pull or Push at Max. Stroke						Quiet Seated Force in Lb.		†60-cycle Coil Volt Amps‡		CR9500 Form	List Price, Each
		With Gravity		Horizontal		Against Gravity		At 100°C Volt	At 85°C Volt	At Max. Stroke	Seated		
		Force at 100°C Volt	Recommended Load	Force at 100°C Volt	Recommended Load	Force at 100°C Volt	Recommended Load						
Pull	1	1.6	1.2	1.4	1.0	1.2	0.8	9	7	300	40	A100A*A	\$10.00
Pull	1	2.7	2.0	2.4	1.7	2.1	1.4	12	9	400	50	A101A*A	13.50
Pull	1	3.5	2.6	3.2	2.3	2.9	2.0	15	11	590	50	A102A*A	17.00
Pull	1	5.5	4.3	5.1	3.9	4.7	3.5	15	11	800	60	B100A*A	19.00
Pull	1	8.3	6.0	7.8	5.5	7.3	5.0	18	13	1050	70	B101A*A	22.75
Pull	1	13.2	10.0	12.5	9.3	11.8	8.6	25	18	1570	100	B102A*A	27.25
Pull	1	16.2	11.8	15.4	11.0	14.6	10.2	35	25	1880	100	C100A*A	32.00
Pull	1	26.1	18.6	25.0	17.5	23.9	16.4	45	33	2700	130	C101A*A	40.00
Pull	1	37.5	28.5	36.0	27.0	34.5	25.5	60	43	3900	150	C102A*A	47.00
Push	1/2	2.8	2.1	2.5	1.8	2.2	1.5	6	5	180	40	A103A*A	11.00
Push	1/2	5.0	3.7	4.7	3.4	4.4	3.1	11	8	280	50	A104A*A	14.50
Push	1/2	7.0	4.5	6.6	4.1	6.2	3.7	15	11	340	50	A105A*A	18.00
Push	1/2	8.3	6.2	7.8	5.7	7.3	5.2	9	7	450	52	B103A*A	21.00
Push	1/2	12.7	9.4	12.0	8.7	11.3	8.0	15	11	680	76	B104A*A	24.75
Push	1/2	17.2	12.6	16.4	11.8	15.6	11.0	22	16	890	80	B105A*A	29.25
Push	1/2	17.0	12.8	16.0	11.8	15.0	10.8	30	22	970	100	C103A*A	35.00
Push	1/2	28.1	20.7	26.6	19.2	25.1	17.7	40	29	1450	150	C104A*A	43.00
Push	1/2	35.0	26.0	33.0	24.0	31.0	22.0	50	36	2050	190	C105A*A	50.00
Push	1	4.8	3.5	4.3	3.0	3.8	2.5	9	7	600	52	B106A*A	21.00
Push	1	9.0	6.7	8.3	6.0	7.6	5.3	15	11	990	76	B107A*A	24.75
Push	1	10.3	7.8	9.5	7.0	8.7	6.2	22	16	1300	80	B108A*A	29.25
Push	1	12.7	9.5	11.7	8.5	10.7	7.5	30	22	1450	100	C106A*A	35.00
Push	1	21.5	16.7	19.5	15.2	18.0	13.7	40	29	2300	150	C107A*A	43.00
Push	1	30.0	21.0	28.0	19.0	26.0	17.0	50	36	3450	190	C108A*A	50.00

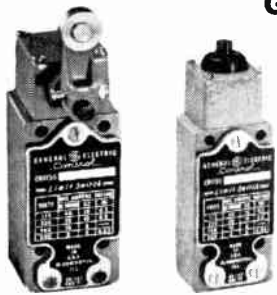
† For 25 cycle forms, refer to Graybar. * Specify coil voltage and cycle.
‡ 0.833 x 60-cycle volt amps = 50-cycle volt amps.

ORDERING DIRECTIONS

Order a solenoid by complete CR nomenclature and form.
The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC TRACK-TYPE LIMIT SWITCHES

CR115 G



**CR115 G
Lever Type**

**CR115 G Top
Plunger Type**

New CR115 G limit switch line is ideal for automatic machine functions and for all general-purpose applications wherever linear motion is to be controlled.

Switches may be ordered with any one of 60 different operating arms. Lever type momentary contact forms are universally convertible to clockwise operation,

counter-clockwise operation, or operation in both directions.

Oil-tight switch body is made of die-cast aluminum for rugged service. Terminals are out-front and identified.

Forms with 1NO-1NC contact arrangement have 1/2-inch conduit tap. Forms with 1NO-2NC or 2NO-1NC contacts have 3/4-inch conduit tap.

ORDERING DIRECTIONS

Order CR115 G forms by complete catalog nomenclature. Order CR115 GP forms and CR115 GB forms by description.

MOMENTARY CONTACT FORMS (Lever Type, Spring Return to Mid-position)

Contact Arrangement	Torque Required (Inch-pounds)	Travel to Operate (Degrees)	Min. Over-travel (Degrees)	Switch Only (Select arm from adjacent page)	List Price, Each	Complete Switch—Nomenclature and Price Includes Operating Arm					
						Roller Lever (CR115 G10 Arm)	List Price, Each	Roller Lever with Adjustable Radius (CR115 G49 Arm)	Extended Rod (CR115 G16 Arm)	List Price, Each	Roller Lever with Adjustable Radius/Micro. Adj. Angle (CR115 G20 Arm)	List Price, Each

CLOCKWISE OPERATION (May be converted to counterclockwise operation or operation in both directions)*

1 NO-1 NC	3±1	5±2	56†	CR115 G104	\$15.50	CR115 G10410	\$17.00	CR115 G10449	CR115 G10416	\$18.00	CR115 G10420	\$23.50
1 NO-1 NC	3±1	10±2	56‡	CR115 G101	14.50	CR115 G10110	16.00	CR115 G10149	CR115 G10116	17.00	CR115 G10120	22.50
1 NO-1 NC	1	20±3	26§	CR115 G107	17.50	CR115 G10710	19.00	CR115 G10749	CR115 G10716	20.00	CR115 G10720	25.50
2 NO-1 NC	3±1	10±2	56†	CR115 G201	16.00	CR115 G20110	17.50	CR115 G20149	CR115 G20116	18.50	CR115 G20120	24.00
2 NO-1 NC	1	20±3	26§	CR115 G207	19.00	CR115 G20710	20.50	CR115 G20749	CR115 G20716	21.50	CR115 G20720	27.00
1 NO-2 NC	3±1	10±2	56†	CR115 G301	16.00	CR115 G30110	17.50	CR115 G30149	CR115 G30116	18.50	CR115 G30120	24.00
1 NO-2 NC	1	20±3	26§	CR115 G307	19.00	CR115 G30710	20.50	CR115 G30749	CR115 G30716	21.50	CR115 G30720	27.00

MID-POSITION FORMS (Operates one contact in one direction; second contact in other direction)

2 NO	3±1	14±3	52¶	CR115 G412	20.50	CR115 G41210	22.00	CR115 G41249	CR115 G41216	23.00	CR115 G41220	28.50
2 NC	3±1	14±3	52¶	CR115 G512	20.50	CR115 G51210	22.00	CR115 G51249	CR115 G51216	23.00	CR115 G51220	28.50

*Converted forms are available from the Factory. Refer your G.E. supplier. †Travel to reset 2±1.4 degrees. ‡Travel to reset 3±1 1/2 degrees on 1 NO-1 NC 4 1/2±1 1/2 degrees on 2 NO-1 NC and 1 NO-2 NC. §Travel to reset 8±2 1/2 degrees on 1 NO-1 NC; 12±2 1/2 degrees on 2 NO-1 NC and 1 NO-2 NC. ¶Travel to reset 5±3 degrees.

FORKED ROLLER LEVER OPERATING ARMS



1 1/2-INCH ARM LENGTH

3/4" x 3/8" w. Roller		1" x 3/8" w. Roller		3/4" x 3/4" w. Roller		3/4" x 1" w. Roller	
Nylon	Steel	Nylon	Steel	Nylon	Steel	Nylon	Steel

BOTH ROLLERS ON FRONT

CR115 G37	CR115 G38	CR115 G40	CR115 G41	CR115 G42	\$2.50	CR115 G39	\$6.50
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LEFT ROLLER ON FRONT, RIGHT ROLLER ON BACK

CR115 G57	CR115 G58	CR115 G60	CR115 G61	CR115 G62	2.50	CR115 G59	6.50
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LEFT ROLLER ON BACK, RIGHT ROLLER ON FRONT

CR115 G63	CR115 G64	CR115 G66	CR115 G67	CR115 G68	2.50	CR115 G65	6.50
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MAINTAINED CONTACT FORMS (Lever Type)

Contact Arrangement	Travel, Rest-to-Rest (Degrees)	Switch Only (Select arm from above)	List Price, Each	Complete Switch—Includes Forked Lever Operating Arm (CR115 G37 Arm)	List Price, Each
1 NO-1 NC	12	CR115 G110	\$17.50	CR115 G11037	\$20.00
1 NO-1 NC	90	CR115 G111	17.50	CR115 G11137	20.00
2 NO-1 NC	12	CR115 G210	19.00	CR115 G21037	21.50
2 NO-1 NC	90	CR115 G211	19.00	CR115 G21137	21.50
1 NO-2 NC	12	CR115 G310	19.00	CR115 G31037	21.50
1 NO-2 NC	90	CR115 G311	19.00	CR115 G31137	21.50

CONTACT RATINGS

Continuous Carry: 10 amps maximum (a-c or d-c)

Maximum Rating in Amps					
A-c			D-c		
Volts	Break Normal Current	Inrush Current	Volts	Break Normal Current	
110-120	6.0	40	115-125	0.25	
220-240	3.0	30	230-250	0.10	
440-480	1.5	15	.....	.....
550-600	1.2	12	.....	.....

ACCESSORIES

Description	Nomenclature	List Price, Each
Transparent Cover for CR115 Type G	CR115 G2	\$1.50
Conduit Seal (4-wire) for 1NO-1NC forms	CR115 G3	.15
Conduit Seal (6-wire) for 2NO-1NC and 1NO-2NC forms	CR115 G4	.20

MOMENTARY CONTACT FORMS (Plunger Type)

Contact Arrangement	Force Required to Trip (Pounds)	Overtravel (Inches)	Type of Roller	Nomenclature	List Price, Each
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TOP PLUNGER—Travel to Trip: .030 ± .010 inches*

1 NO-1 NC	2 1/2 ± 1	.260 min	CR115 G113	\$16.00
2 NO-1 NC	2 1/2 ± 1	.260 min.	.....	CR115 G213	17.50
1 NO-2 NC	2 1/2 ± 1	.260 min.	.....	CR115 G313	17.50

TOP ROLLER PLUNGER—Travel to Trip: .030 ± .010 inches.*

1 NO-1 NC	2 1/2 ± 1	.260 min.	Steel	CR115 G114	17.00
2 NO-1 NC	2 1/2 ± 1	.260 min.	Steel	CR115 G214	18.50
1 NO-2 NC	2 1/2 ± 1	.260 min.	Steel	CR115 G314	18.50
1 NO-1 NC	2 1/2 ± 1	.260 min.	Nylon	CR115 G116	17.00
2 NO-1 NC	2 1/2 ± 1	.260 min.	Nylon	CR115 G216	18.50
1 NO-2 NC	2 1/2 ± 1	.260 min.	Nylon	CR115 G316	18.50

SIDE PLUNGER—Travel to Trip: .085 ± .025 inches**

1 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	.....	CR115 G119	17.00
2 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	.....	CR115 G219	18.50
1 NO-2 NC	4 1/2 ± 1 1/2	.225 min.	.....	CR115 G319	18.50

SIDE ROLLER PLUNGER—Travel to Trip: .085 ± .025 inches**

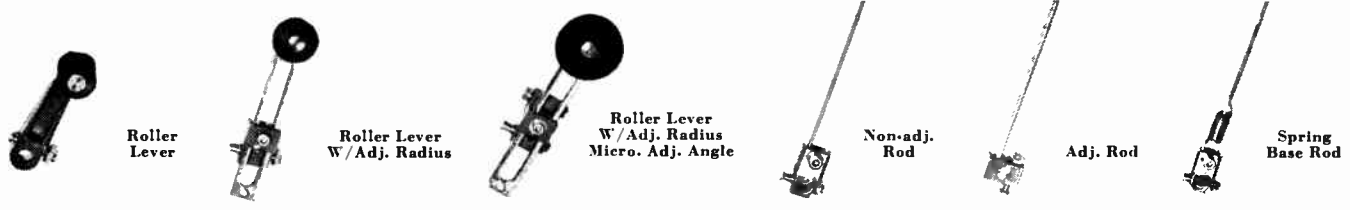
1 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Steel	CR115 G120	19.00
2 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Steel	CR115 G220	20.50
1 NO-2 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Steel	CR115 G320	20.50
1 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Steel	CR115 G121	19.00
2 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Steel	CR115 G221	20.50
1 NO-2 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Steel	CR115 G321	20.50
1 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Nylon	CR115 G123	19.00
2 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Nylon	CR115 G223	20.50
1 NO-2 NC	4 1/2 ± 1 1/2	.225 min.	Horiz. Nylon	CR115 G323	20.50
1 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Nylon	CR115 G124	19.00
2 NO-1 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Nylon	CR115 G224	20.50
1 NO-2 NC	4 1/2 ± 1 1/2	.225 min.	Vertical Nylon	CR115 G324	20.50

*Travel to reset: .015 ± .010 inches. **Travel to reset: .040 ± .025 inches.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC TRACK-TYPE LIMIT SWITCHES (Continued)

OPERATING ARMS (For Use with CR115 G and CR9440 K1AA4 Switches)



ROLLER LEVER OPERATING ARMS

Length of Arm	3/4" x 9/16" w.		List Price, Each	3/4" x 1/4" w. Ball-bearing Roller		List Price, Each	1" x 9/16" w. Nylon Roller		List Price, Each	3/4" x 3/4" w. Nylon Roller		List Price, Each	3/4" x 1" w. Nylon Roller		List Price, Each	1 1/2" x 9/16" w. Nylon Roller		List Price, Each
	Nylon Roller	Steel Roller																

ROLLER LEVER

7/8"	CR115 G31	CR115 G32	\$2.50	CR115 G33	\$4.50	CR115 G34	\$2.50	CR115 G35	\$2.50	CR115 G36	\$2.50		
1 1/2"	CR115 G10	CR115 G11	1.50	CR115 G12	3.50	CR115 G13	2.50	CR115 G14	2.50	CR115 G15	2.50		
2 1/8"	CR115 G43	CR115 G44	2.50	CR115 G45	4.50	CR115 G46	2.50	CR115 G47	2.50	CR115 G48	2.50		

ROLLER LEVER WITH ADJUSTABLE RADIUS

1 1/4"-3 1/2"	CR115 G49	CR115 G50	2.50	CR115 G51	4.50	CR115 G52	2.50	CR115 G54	2.50	CR115 G55	2.50	CR115 G53	\$3.50
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ROLLER LEVER WITH ADJUSTABLE RADIUS/MICRO. ADJUSTABLE ANGLE

1 1/4"-3 1/2"	CR115 G20	CR115 G21	8.00	CR115 G22	10.00	CR115 G23	8.00	CR115 G25	8.00	CR115 G26	8.00	CR115 G24	9.00
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EXTENDED ROD OPERATING ARMS

Diameter	Uncoated Stainless Steel	List Price, Each	Diameter	Nylon Coated Stainless Steel	List Price, Each
8" ADJUSTABLE LENGTH ROD					
1/8"	CR115 G16	\$2.50	3/16"	CR115 G17	\$2.75
8" NON-ADJUSTABLE LENGTH ROD*					
3/64"	CR115 G27	2.50	9/64"	CR115 G29	2.75
11 1/2" NON-ADJUSTABLE LENGTH ROD WITH SPRING BASE*					
3/64"	CR115 G28	2.50	9/64"	CR115 G30	2.75

LEVER FOR CUSTOM ARMS

Has two 10-32 tapped holes for customer-mounting of own operator. No rollers.

Nomenclature	List Price
CR115 G56	\$2.00

*Uncoated rod may be cut to shorter length.

GENERAL ELECTRIC VANE-OPERATED LIMIT SWITCHES

FEATURES

- Has no arms, levers, or shafts—gives unlimited mechanical life.
- Switch completely encapsulated.
- Mounts in any position, with either the switch or vane on the moving equipment.

CONTACT RATINGS

	Voltage (60/50 cycles)	Amperage
Make Rating	115 volts	0.75 amp
Carry Continuously	115 volts	0.2 amp

ORDERING DIRECTIONS

Order by complete CR nomenclature.

GENERAL ELECTRIC MAGNET-OPERATED LIMIT SWITCHES

CONTACT RATINGS (60/50 CYCLES)

1 NO Contact Form	Carry continuously and break:	1 NO-1 NC Contact Form
Make: 0.75 amp, 115 v, a-c max.	0.2 amp, 115 v, a-c max.	Noninductive: 15 volt-amp.
0.27 amp, 230 v, a-c max.	0.07 amp, 230 v, a-c max.	1.0 amp max., 250 volts max.

SWITCHES

Contact Arrangement	3-ft-long Leads		12-ft-long Leads	
	Nomenclature	List Price, Each	Nomenclature	List Price, Each

1 NO	CR115 A24	\$23.00	CR115 A24AC	\$25.25
1 NO-1 NC	CR115 A22	25.00	CR115 A22AC	28.00

1 NO	CR115 A19	\$23.00	CR115 A19AC	\$25.25
1 NO-1 NC	CR115 A23	25.00	CR115 A23AC	28.00

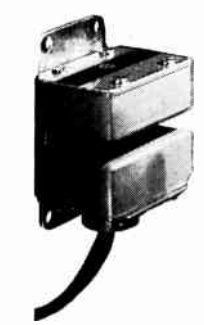
MAGNETS

Max Operating Distance		Nomenclature	List Price, Each
1 NO Form	1 NO-1 NC Form		

2 1/8"	1 1/4"	CR115 X1	\$11.00
3 5/8"	2 1/8"	CR115 X2	17.00

ELECTROMAGNETIC TYPE (3ft. leads)

3 5/8"	2 9/16"	50 volt d-c	
		CR115 AB102	\$45.00
3 5/8"	2 9/16"	90 volt d-c	
		CR115 AB103	45.00



Front-operated form



ORDERING DIRECTIONS: Order by complete CR nomenclature.

The Above Items Are Subject to 15% Discount

GENERAL ELECTRIC INDICATING LIGHTS

CR103 SQUARE INDICATING LIGHTS

CR103 square indicating lights are available in full voltage and transformer types in a variety of colors. Lenses may be translucent type or transparent type used with a diffuser. Legends can be engraved and filled on translucent lenses. Film legends, on material suitable for 120 C, may be inserted in transparent lenses. A colored filter may be used with clear or white lenses to show color only when the light is on.



Full-voltage type



Transformer-type

COMPLETE UNITS

Operating Voltage	Color of Lens	Nomenclature		List Price, Each
		With Translucent Lens and Lamp	With Transparent Lens, Frosted Diffuser and Lamp	
FULL VOLTAGE TYPE (Includes No. 6S6 lamp)				
110-125 Volts A-c, D-c	White	CR103 C2202		\$3
	Clear		CR103 C2102	3
	Red	CR103 C3202	CR103 C3102	3
	Yellow	C4202		3
	Amber		CR103 C4102	3
	Green	CR103 C5202	C5102	3
	Blue	C6202	C6102	3
TRANSFORMER TYPE (Includes No. 12, 6-volt lamp)				
110-125 Volts 60/50 Cyc	White	CR103 C2402		7
	Clear		CR103 C2302	7
	Red	CR103 C3402	C3302	7
	Yellow	C4402		7
	Amber		CR103 C4302	7
	Green	CR103 C5402	C5302	7
	Blue	C6402	C6302	7
220 Volts 60/50 Cyc	White	CR103 C2403		7
	Clear		CR103 C2303	7
	Red	CR103 C3403	C3303	7
	Yellow	C4403		7
	Amber		CR103 C4303	7
	Green	CR103 C5403	C5303	7
	Blue	C6403	C6303	7
440 Volts 60/50 Cyc	White	CR103 C2404		8
	Clear		CR103 C2304	8
	Red	CR103 C3404	C3304	8
	Yellow	C4404		8
	Amber		CR103 C4304	8
	Green	CR103 C5404	C5304	8
	Blue	C6404	C6304	8
550 Volts 60 Cyc	White	CR103 C2405		8
	Clear		CR103 C2305	8
	Red	CR103 C3405	C3305	8
	Yellow	C4405		8
	Amber		CR103 C4305	8
	Green	CR103 C5405	C5305	8
	Blue	C6405	C6305	8

LENSES

Color	Nomenclature		List Price, Each
	Translucent Type	Transparent Type	
White	CR103 CB2		\$0.30
Clear		CR103 CA2	.30
Red	CR103 CB3	CA3	.30
Yellow	CB4		.30
Amber		CR103 CA4	.30
Green	CR103 CB5	CA5	.30
Blue	CB6	CA6	.30

DIFFUSERS (Use with transparent lens)

Description	Nomenclature	List Price, Each
Fine Cross-hatch	CR103 CC2	\$1.50/25†
Coarse Cross-hatch	CC3	1.50/25†

† Packaged 25-per package. Order in multiples of 25.

FILTERS (Use with transparent clear lens and translucent white lens)

Color	Nomenclature	List Price, Each
Red	CR103 CF3	\$0.20
Yellow	CF4	.20
Green	CF5	.20
Blue	CF6	.20

BASE ASSEMBLY (Forms less lens and diffuser)

Operating Voltage	Nomenclature	List Price, Each
FULL VOLTAGE TYPE (Includes No. 6S6 lamp)		
110-125 Volts, A-c, D-c	CR103 C1102	\$2.70
TRANSFORMER TYPE (Includes No. 12, 6-volt lamp)		
110 Volts, 60/50 Cyc	CR103 C1302	6.70
220 Volts, 60/50 Cyc	C1303	6.70
440 Volts, 60/50 Cyc	C1304	7.70
550 Volts, 60 Cyc	C1305	7.70

NOTE: Consult Graybar for engraving specifications and prices.

CR103 Type H indicating lights give bright, visual indication of circuit operating conditions for applications where oil-tightness is not required.

Typical uses include panels, electronic equipment, laboratory and test equipment, business machines, hospital equipment, materials handling systems, commercial cooking equipment and other commercial and industrial machinery.

CR103 TYPE H INDICATING LIGHTS

Lens Color	Type HA (1" mounting hole), Crown-shape Lens				Type IID (1" mounting hole), Torpedo shape Lens			
	Light Unit (less bulb)	List Price, Each	Lens Only	List Price, Each	Light Unit (less bulb)	List Price, Each	Lens Only	List Price, Each
Less Lens	CR103 HA1	\$1.30			CR103 IID1	\$1.30		
Yellow (amber)	CR103 HA1001A	1.75	CR103 HAX01A	\$0.45	CR103 IID1002A	1.75	CR103 IIA020A	\$0.45
Blue	HA1001B	1.75	HAX01B	.45	HD1002B	1.75	HAX02B	.45
Clear	HA1001C	1.75	HAX01C	.45	HD1002C	1.75	HAX02C	.45
Green	HA1001G	1.75	HAX01G	.45	HD1002G	1.75	HAX02G	.45
Red	HA1001R	1.75	HAX01R	.45	HD1002R	1.75	HAX02R	.45
White	HA1001W	1.75	HAX01W	.45	HD1002W	1.75	HAX02W	.45
Clear* (crown)					CR103 HD1001C	1.75	CR103 HAX01C	.45
Less Lens	Type HB (1 1/8" mounting hole), Spherical-shape Lens				Type HC (1 5/32" mounting hole), Crown-shape Lens			
	Light Unit (less bulb)	List Price, Each	Lens Only	List Price, Each	Light Unit (less bulb)	List Price, Each	Lens Only	List Price, Each
Yellow (amber)	CR103 HB2	1.04			CR103 HC2	1.04		
Blue	CR103 HB2001A	1.39	CR103 HBX01A	.35	CR103 HC2001A	1.39	CR103 HCX01A	.35
Clear	HB2001B	1.39	HBX01B	.35	HC2001B	1.39	HCX01B	.35
Green	HB2001C	1.39	HBX01C	.35	HC2001C	1.39	HCX01C	.35
Red	HB2001G	1.39	HBX01G	.35	HC2001G	1.39	HCX01G	.35
White	HB2001R	1.39	HBX01R	.35	HC2001R	1.39	HCX01R	.35
	HB2001W	1.39	HBX01W	.35	HC2001W	1.39	HCX01W	.35

* Use only with lamps with T 4 1/2 or smaller bulbs and with candelabra base—such as NE45.

CR103 HB NEON LAMP FORMS

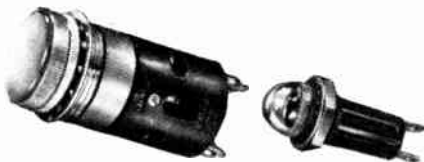
Voltage	Bright-ness	Type HB (1 1/8" mtg hole)		Spherical-shape Lens		
		Light Unit (less bulb and lens)	List Price, Each	Color	Lens Only	List Price, Each
105-125V	High	CR103 HB21	\$1.14	Clear	CR103 HBX01C	\$0.35
	Normal	HB22	1.14	Red	HBX03R	.35
210-250V	High	CR103 HB23	1.14	Amber	HBX03A	.35
	Normal	HB24	1.14			

High brightness form uses lamp NE-51H; normal brightness form uses lamp NE-51

The Above Items Are Subject to 15% Discount

ORDERING DIRECTIONS

1. Specify units (less lamp) by complete CR nomenclature as complete unit with lens, or, unit less lens and lens separately.



Type HA

Type HB

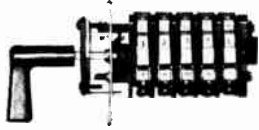


Type HC

Type HD

GENERAL ELECTRIC CONTROL AND TRANSFER SWITCHES

TYPE SB-1



The SB-1 is a rotary, cam-operated device designed for a wide range of applications including control of electrically operated circuit breakers, small motors, magnetic switches, and transfer of meters, instruments, relays, etc. Two electrically separate contacts per stage offer wide range of contact arrangements. Navy approved SB-1N switch is manufactured for use in accordance with MIL-S-18396A.

SB-1 is rated 600 volts, 20 amp continuous, or 250 amp for three seconds.

Special enclosures are available including watertight housing, explosion-proof housing, and fabricated metal housing.

INTERRUPTING RATINGS

Circuit Volts	Noninductive Circuit			Inductive Circuit†		
	Number of Contacts					
	1	2 in Series	4 in Series	1	2 in Series	4 in Series
Interrupting Rating in Amperes						
24 D-c	6	30	...	4	20	30
48 D-c	5	25	40	3	15	25
125 D-c	2.5	11	25	2	6.25	9.5
250 D-c	.75	2	8	.7	1.75	6.5
600 D-c	.25	.45	1.35	.15	.35	1.25
115 A-c	40	75	...	24	50	...
220 A-c	25	50	...	12	25	40
440 A-c	12	25	...	5	12	20
550 A-c	6	12	...	4	10	15

† Values of inductance equal to that of the average trip circuit. For circuits having high values of inductance, refer application to your G-E Supplier for recommendations.

Service, Poles, and Throws	Stages	Contact Arrangement, GEA-4746 Fig.	Model No.	Net Price, Each*
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VOLTMETER

DP-ST	1	1	16SB1CA1	\$22.50
DP-DT	2	2	16SB1CE27	25.00
3-phase, phase-to-phase or phase-to-neutral	3	3	16SB1CF11	27.50
3-phase, phase-to-phase and phase-to-neutral	4	4	16SB1CF16	30.00
3-phase, 4 W, phase-to-neutral	2	5	16SB1CF22	25.00
2-3-phase, 3 W circuits	4	6	16SB1CF23	30.00

AMMETER

3 independent circuits	6	7	16SB1CA7	\$35.00
3 independent circuits plus OFF	6	8	16SB1CA15	35.00
3 CT's (end of secondary)	3	9	16SB1CA18	27.50
3 CT's (end of secondary) plus OFF	3	10	16SB1CA19	27.50
2 CT's (end of secondary) plus OFF	2	11	16SB1CA20	25.00
2 CT's (end of secondary)	2	12	16SB1CE25	25.00
4 independent circuits	6	13	16SB1CF17	35.00

AMMETER-VOLTMETER

3 phase, 3 W, phase-to-phase plus 3 independent CT circuits	9	14	16SB1CA21	\$42.50
3 phase, 4 W, phase-to-neutral plus 3 independent CT circuits	8	15	16SB1CA23	40.00
3-phase, 3 W, phase-to-phase plus 3 CT's	5	16	16SB1CA24	32.50
3-phase, 4 W, phase-to-neutral plus 3 CT's	5	17	16SB1CA25	32.50

BREAKER CONTROL

Standard control with Red and Green target	2	18	16SB1B1	\$25.00
	4	19	16SB1B2	30.00
Trip Switch Contacts norm. open	1	20	16SB1B3	22.50
Trip Switch Contacts norm. closed	1	21	16SB1B4	22.50
Operating two breakers	3	22	16SB1B6	27.50
Substitute for P.B. switch	2	23	16SB1B7	25.00
Standard control with Red and Green target	3	24	16SB1B9	27.50
	4	25	16SB1B10	30.00
	1	26	16SB1B11	22.50
	3	27	16SB1B14	27.50

* Suggested user Net Price.

† Removable handles are not included in the price of the switch. These handles must be ordered as a separate item on the requisition at an additional charge of \$2.50 each net.

TYPE SB-9



The SB-9 is designed to fulfill the needs of industrial applications requiring unusually large numbers of repetitive operations, such as in steel mills, pulp extruder controls, and process controls.

This switch is similar to the SB-1 except that it has a more positive positioning device. It is furnished with a maximum of 16 stages and a maximum of 12 positions. A-c and d-c motor-operated mechanisms are available.

Service, Poles, and Throws	Stages	Contact Arrangement, GEA-4746 Fig.	Model No.	Net Price, Each*
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BREAKER CONTROL (Cont'd)

Substitute for P.B. switch	4	28	16SB1B15	\$30.00
Standard control with Red and Green target	5	29	16SB1B16	32.50
	5	30	16SB1B17	32.50
	5	31	16SB1B18	32.50
With pull to lock	2	32	16SB1B19	25.00
With pull to lock	3	33	16SB1B20	27.50
With pull to lock	4	34	16SB1B21	30.00
With pull to lock	4	35	16SB1B22	30.00
With pull to lock	4	36	16SB1B23	30.00
With pull to lock	4	37	16SB1B24	30.00
With pull to lock	5	38	16SB1B25	32.50
With pull to lock	6	39	16SB1B26	35.00

WATTMETER AND POWER FACTOR

3 current coils with removable handle	5	40	16SB1CB13	\$32.50
			16SB1CF8	32.50
2 current coils with removable handle	3	41	16SB1CB12	27.50
			16SB1CF7	27.50
Reversing SW	4	42	16SB1CA10	30.00
2 CT's and 2 PT's	4	43	16SB1CB14	30.00
1 CT and 2 PT's with removable handle	3	44	16SB1CA26	27.50
			16SB1CF6	27.50
One or two current coils with removable handle	2	45	16SB1CA28	25.00
			16SB1CA8	25.00

MOTOR CONTROL

Standard Motor control applications	1	78	16SB1CG44	\$22.50
	4	49	16SB1A1	30.00
	2	50	16SB1AA1	25.00

MISCELLANEOUS SWITCHES

S or DP-ST with spring return	1	57	16SB1CG1	\$22.50
			16SB1CG2	22.50
3 or 4 P-ST with spring return	2	58	16SB1CG3	25.00
			16SB1CG4	25.00
5 or 6 P-ST with spring return	3	59A	16SB1CG5	27.50
			16SB1CG6	27.50
7 or 8 P-ST with spring return	4	59B	16SB1CG7	30.00
			16SB1CG8	30.00
9 or 10 P-ST with spring return	5	59C	16SB1CG9	32.50
			16SB1CG10	32.50
11 or 12 P-ST with spring return	6	59D	16SB1CG11	35.00
			16SB1CG12	35.00

MISCELLANEOUS SWITCHES (Cont'd)

SP-DT with OFF with spring return	1	60	16SB1CG13	\$22.50
DP-DT with OFF with spring return	2	61	16SB1CG15	25.00
3P-DT with OFF with spring return	3	62A	16SB1CG17	27.50
4P-DT with OFF with spring return	4	62B	16SB1CG19	30.00
5P-DT with OFF with spring return	5	62C	16SB1CG21	32.50
6P-DT with OFF with spring return	6	62D	16SB1CG23	35.00
SP-DT	1	63	16SB1CG25	22.50
DP-DT	2	64	16SB1CG26	25.00
3P-DT	3	65A	16SB1CG27	27.50
4P-DT	4	65B	16SB1CG28	30.00
5P-DT	5	65C	16SB1CG29	32.50
6P-DT	6	65D	16SB1CG30	35.00
7P-DT	7	65E	16SB1CG31	37.50
SP-3T	2	66	16SB1CG32	25.00
SP-4T	2	67	16SB1CG33	25.00
SP-5T	3	68	16SB1CG34	27.50
SP-6T	3	69	16SB1CG35	27.50
SP-7T	4	70	16SB1CG36	30.00
SP-8T	4	71	16SB1CG37	30.00
SP-10T	5	72	16SB1CG38	32.50
SP-12T	6	73	16SB1CG39	35.00
DP-4T	4	74	16SB1CG40	30.00
DP-6T	6	75	16SB1CG41	35.00
DP-8T	8	76	16SB1CG42	40.00
DP-12T	12	77	16SB1CG43	50.00

SYNCHRONIZING

Machine to bus	2	46	16SB1CF9†	\$25.00
Between machines NO PT'S	2	47	16SB1CB15†	25.00
Between machines	2	48	16SB1CB5†	25.00

TEMPERATURE METER

2W to 5 coils and test	6	51	16SB1CE33	\$35.00
2W to 3 coils and test	4	52	16SB1CE28	30.00
3W to 3 coils and test	6	53	16SB1CE29	35.00
2W to 4 coils and test plus off with removable handle	6	54	16SB1CE52	30.00
3W to 3 coils and test plus off with removable handle	6	55	16SB1CE61†	35.00
			16SB1CE55	35.00
2W to 3 coils and test plus off with removable handle	6	56	16SB1CE63†	35.00
	4		16SB1CE57	30.00
	4		16SB1CE62†	30.00

TYPE SB-10



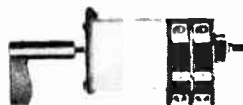
The SB-10 combines contacts operated by rotation of the shaft and contacts operated by a lateral push or pull of the shaft, for such applications as motor-control

centers where lateral contacts eliminate need for separate STOP-START push-button station.

Rotary contacts operate independently of the lateral contacts. Only two lateral positions of the shaft are possible. Maximum of four stages push-or-pull; maximum of 12 stages permitted including rotary.

GENERAL ELECTRIC CONTROL AND TRANSFER SWITCHES

TYPE SBM



The SBM is a rotary, cam-operated, panel-mounted device for circuit breakers, motor controls, or instrument transfer. Its compact design affords close center-to-center line mounting to reduce

switchboard-space requirements. Two electrically separate and mechanically independent contacts per stage offer greater versatility of contact arrangement. Self-enclosed stage eliminates need for separate covers. Small opening in bottom allows quick contact inspection.

The SBM is rated for a mechanical life of 500,000 operations. Electrical ratings are 600 volts a-c or d-c, 20 amp continuous.

INTERRUPTING RATINGS

Circuit Volts	Noninductive Circuit		Inductive Circuit	
	Number of Contacts			
	1	2 in series	1	2 in circuit
24 D-c	10	30	8	25
48 D-c	8	25	6	18
125 D-c	5	15	4	10
250 D-c	1	3	1	2.5
115 A-c	40	75	24	50
230 A-c	25	50	12	25

Service, Poles, and Throws	Stages	Contact Arrangement, GEA-4746, Fig.	Model No.	Net Price, Each*
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VOLTMETER

DP-ST	1	1	10AA001	\$18.50
DP-DT	2	2	10AA002	21.00
3 ϕ 4W phase-to-neutral	2	3	10AA003	21.00
3 ϕ phase-to-phase or phase-to-neutral	2	4	10AA004	21.00
4 circuits 2 wires	4	5	10AA005	26.00
3 ϕ 4W phase-to-phase and phase-to-neutral	3	6	10AA006	23.50
2-3 ϕ 3W	4	7	10AA007	26.00

AMMETER

3 CT's (end of secondary)	3	8	10AA008	\$23.50
3 CT's (end of secondary) plus off	3	9	10AA009	23.50
3 independent circuits	5	10	10AA010	28.50
2 CT's (end of secondary)	2	11	10AA011	21.00
2 CT's (end of secondary) plus off	2	12	10AA012	21.00
3 independent circuits plus off	5	13	10AA013	28.50

AMMETER VOLTMETER

3-phase 3W phase-to-phase plus 3 ind. CT circuits	7	14	10AA014	\$33.50
3-phase 4W phase-to-neutral plus 3 ind. CT circuits	6	15	10AA015	31.00
3-phase 3W phase-to-phase plus 3 CT circuits	5	16	10AA016	28.50
3-phase 4W phase-to-neutral plus 3 CT circuits	5	17	10AA017	28.50

BREAKER CONTROL

Std control with red/green target	2	18	10AA100	\$21.00
Trip switch contacts normally open	4	19	10AA101	26.00
Trip switch contacts normally closed	1	20	10AA102	18.50
Operating two breakers	1	21	10AA103	18.50
Substitute for P.B. switch	2	23	10AA105	21.00
	3	24	10AA106	23.50
	1	25	10AA107	18.50
	3	26	10AA108	23.50
	4	27	10AA109	26.00
	4	28	10AA110	26.00
	5	29	10AA111	28.50
	5	30	10AA112	28.50
	5	31	10AA113	28.50
With pull to lock	2	32	10AA114	21.00
With pull to lock	3	33	10AA115	23.50
With pull to lock	3	34	10AA116	23.50
With pull to lock	4	35	10AA117	26.00
With pull to lock	4	36	10AA118	26.00
With pull to lock	4	37	10AA119	26.00
With pull to lock	4	38	10AA120	26.00
With pull to lock	4	39	10AA121	26.00
With pull to lock	4	40	10AA122	26.00
With pull to lock	5	41	10AA123	28.50
With pull to lock	5	42	10AA124	28.50

Service, Poles, and Throws	Stages	Contact Arrangement, GEA-4746, Fig.	Model No.	Net Price, Each*
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WATTMETER

2 current coils	3	43	10AA018	\$23.50
3 current coils	5	44	10AA019	28.50
2 CT's and 2 PT's	4	45	10AA020	26.00

POWER FACTOR

One or two CT coils	2	46	10AA021	\$21.00
One CT and 2 PT coils	3	47	10AA022	23.50
Reversing switch	4	48	10AA023	26.00

MOTOR CONTROL

Standard motor control applications	4	49	10AA066	\$26.00
	1	50	10AA067	18.50
	1	54	10AA065	18.50

SYNCHRONIZING

Machine to bus	2	51	10AA024	\$21.00†
Running and incoming	2	52	10AA025	21.00†
Between machines	2	53	10AA026	21.00†

MISCELLANEOUS SWITCHES

S or DP-ST	1	55	10AA027	\$18.50
With spring return			10AA028	18.50
3 or 4P-ST	2	56	10AA029	21.00
with S.R.			10AA030	21.00
5 or 6P-ST	3	57A	10AA031	23.50
W.S.R.			10AA032	23.50
7 or 8P-ST	4	57B	10AA033	26.00
W.S.R.			10AA034	26.00
9 or 10P-ST	5	57C	10AA035	28.50
W.S.R.			10AA036	28.50
11 or 12P-ST	6	57D	10AA037	31.00
W.S.R.			10AA038	31.00
SP-DT plus off	1	58	10AA039	18.50
W.S.R.			10AA040	18.50
DP-DT plus off	2	59	10AA041	21.00
W.S.R.			10AA042	21.00
3P-DT plus off	3	60A	10AA068	23.50
W.S.R.			10AA043	23.50
4P-DT plus off	4	60B	10AA044	26.00
W.S.R.			10AA045	26.00
5 P-DT plus off	5	60G	10AA046	28.50
W.S.R.			10AA047	28.50
6P-DT plus off	6	60D	10AA048	31.00
W.S.R.			10AA049	31.00
SP-DT	1	61	10AA050	18.50
DP-DT	2	62	10AA051	21.00
3P-DT	3	63A	10AA052	23.50
4P-DT	4	63B	10AA053	26.00
5P-DT	5	63C	10AA054	28.50
6P-DT	6	63D	10AA055	31.00
7P-DT	7	63E	10AA056	33.50
SP-3T	2	64	10AA057	21.00
SP-4T	2	65	10AA058	21.00
SP-5T	3	66	10AA059	23.50
SP-6T	3	67	10AA060	23.50
SP-7T	4	68	10AA061	26.00
SP-8T	4	69	10AA062	26.00
DP-4T	4	70	10AA063	26.00
DP-8T	8	71	10AA064	36.00

† Removable handles are not included in the price of the switch. These handles must be ordered as a separate item on the requisition at an additional charge of \$2.50 each.

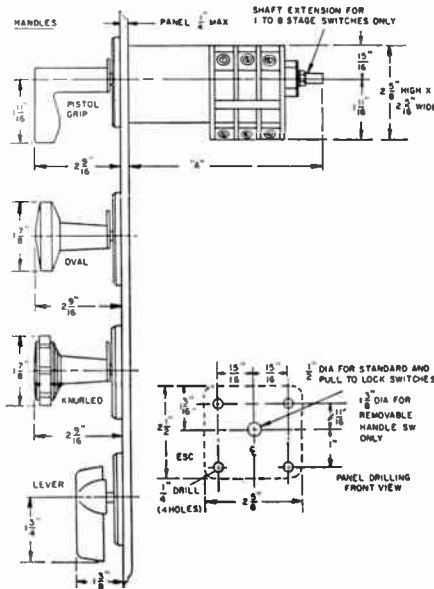
HOW TO PRICE "SB" SWITCHES

The listed model switches are priced as follows:

Type	Base—Net Price Each*	Adder/Stage—Net Price Each*
SBM	\$16.00	\$2.50
SB-1	20.00	2.50
SB-9	33.00	2.50
SB-10	30.00	2.50

Each switch consists of a frame, shaft, fixed handle, escutcheon, and a number of stages consisting of a maximum of two contacts and a barrier all enclosed in a Textolite® cover. SBM construction provides its own enclosure not requiring a Textolite cover. Special housings and mechanisms require price adders to the above prices. Switches are described in Bulletin GEA-4746.

DIMENSIONS

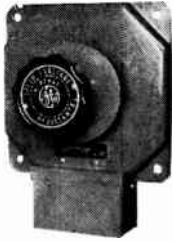


No. of Stages	Standard Switch		Pull-to-Lock Switch		Removable Handle Switch	
	PT	"A"	PT	"A"	PT	"A"
1	1	3 7/8	21	4 1/4	41	4 3/4
2	2	4 1/2	22	4 3/4	42	5 1/8
3	3	5 1/2	23	5 1/2	43	6
4	4	5 3/4	24	6 1/4	44	6 3/4
5	5	6 1/4	25	6 3/4	45	7 1/4
6	6	7	26	7 3/8	46	7 7/8
7	7	7 7/8	27	8	47	8 1/2
8	8	8 3/4	28	8 5/8	48	9 1/8
9	9	8 3/4	29	8 3/4	49	9 3/8
10	10	8 7/8	30	9 1/4	50	9 3/4

* Suggested user Net Price.

Application information contained in Bulletin GEA-4746. Or call Graybar for complete details.

GENERAL ELECTRIC IC8070 PLATE-TYPE FIELD RHEOSTATS



IC8070 Rheostat

These G-E plate-type field rheostats are field-control devices for all types of direct-current rotating equipment. They can be used to adjust the output voltage of a-c or d-c generators, and the speed of d-c motors.

Plate-type field rheostats are suitable for use in textile mills, paper mills, machinery manufacturing, steel mills, switchboard building, educational institutions and laboratories, etc. They are available for open-type,

totally enclosed, open-type concentric, totally enclosed concentric, open-type sequence operation, and totally enclosed sequence operation—all for front- or back-of-board mounting.

Features include (1) *constant resistance*—maintained by using resistance material affected only slightly by temperature; (2) *long mechanical life*—since contact segments and brushes are made of special alloy material with long-wearing qualities; (3) *versatility*—employing two adjustable stops, one at each end.

When ordering, include ohms resistance, maximum amperes, and voltage for rheostat required. If for use with d-c motor, include information on motor rating (Model No. or Serial No.), together with speed increase desired. If rheostat is to be used with other than a G-E motor, the order should state maximum shunt-field current and ohms resistance necessary to insert in the field current to give maximum speed increase. For detailed information, request Bulletin GET-3375.

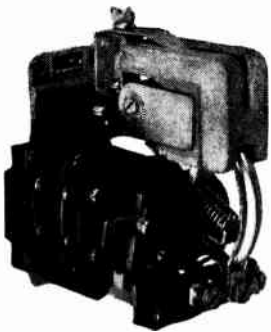
Field Rheostats for Use with D-c Motors on General-purpose Applications*

IC8070 Totally Enclosed for Front-of-board Mounting

Maximum Hp of Motor	Motor Speed Range				
	1.25 to 1	1.5 to 1	2 to 1	3 to 1	4 to 1
	List Price, Each				
1 1/2	\$32.00	\$32.00	\$32.00	\$32.00	\$32.00
2	32.00	32.00	32.00	44.00	44.00
3	32.00	32.00	32.00	44.00	44.00
5	32.00	32.00	32.00	44.00	44.00
7 1/2	32.00	32.00	32.00	44.00	44.00
10	32.00	32.00	32.00	44.00	59.00
15	32.00	32.00	32.00	44.00	59.00
20	32.00	32.00	32.00	59.00	59.00
25	32.00	32.00	32.00	59.00	59.00
30	32.00	32.00	44.00	59.00	118.00
40	32.00	44.00	44.00	118.00	118.00
50	32.00	44.00	44.00	118.00	118.00
60	44.00	44.00	59.00	118.00	118.00
75	44.00	44.00	59.00	118.00	118.00
100	44.00	59.00	59.00	118.00	118.00
125	44.00	59.00	59.00	118.00	177.00
150	44.00	118.00	118.00	177.00	177.00
200	118.00	118.00	118.00	177.00	177.00

*Prices apply to rheostats for G-E motors with base speeds not less than 300 rpm, and may differ for other motor makes and ratings.

GENERAL ELECTRIC IC2800 D-C CONTACTORS



Heavy duty and accessibility are the two special features of this line of d-c contactors, as regards their use by switchboard builders and panel assemblers for industrial service with machine tools, textile machinery, and the like.

IC2800 contactors are rated at 25-100 amp, 600 volts maximum.

Both single-pole and multipole contactors in all forms are unit-mounted, supplied already assembled in a sturdy steel base drilled for surface mounting. All

connections are made from the front.

Unit-style interlocks are available, factory-mounted, or separately for field mounting. These can easily be changed from normally open to normally closed; or from normally closed to normally open. For detailed information, request Bulletin GEA-6621.

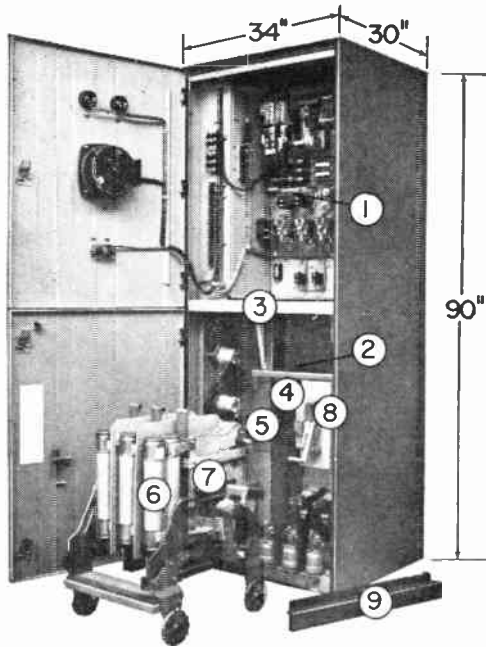
Interlocks

Contacts	List Price Addition	
	Factory Installed	Furnished Separately
1 NO	\$ 9.00	\$ 6.00
1 NC	9.00	6.00
2 NO	12.00	9.00
2 NC	12.00	9.00
1 NO, 1 NC	12.00	9.00

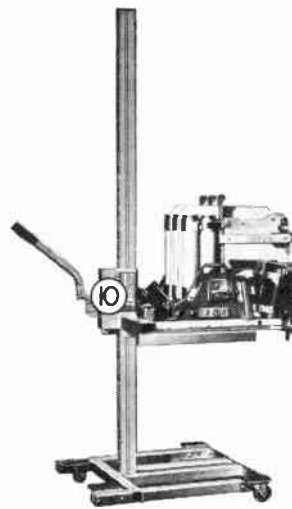
8-hr Open Rating, Amp	Contacts	Blowout Coil, Amp		IC2800 Form	List Price, Each, Contactor with Coils but Less Interlocks
		NO Pole	NC Pole		
115, 230, 550 Volts	1 NO	5	.....	1607D	\$43.00
		10	.....	1607E	43.00
		25	.....	1607F	43.00
25	1 NC	.....	5	1608H	63.00
		.....	10	1608K	63.00
		.....	25	1608M	63.00
50	1 NO, 1 NC	5	5	1609H	88.00
		10	10	1609K	88.00
		25	25	1609M	88.00
100	1 NO	10	.....	1617E	87.00
		25	.....	1617C	57.00
		50	.....	1617B	57.00
50	1 NC	.....	10	1618H	88.00
		.....	25	1618D	88.00
		.....	50	1618F	88.00
100	1 NO, 1 NC	10	10	1619R	120.00
		25	25	1619D	120.00
		50	50	1619F	120.00
100	1 NO	25	.....	1621AQ	82.00
		50	.....	1621AP	82.00
		100	.....	1621AM	82.00
100	1 NC	.....	25	1620AS	138.00
		.....	50	1620AR	138.00
		.....	100	1620AP	118.00
100	1 NO, 1 NC	25	25	1625AU	178.00
		50	50	1625AT	178.00
		100	100	1625AM	178.00

The Above Items Are Subject to 16% Discount

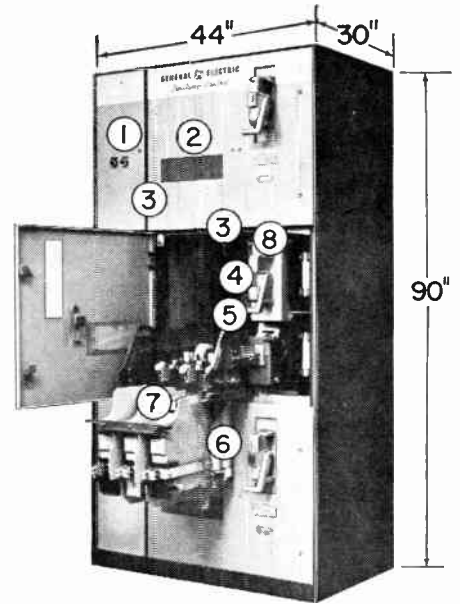
GENERAL ELECTRIC LIMITAMP® CONTROL



One-high Limitamp control



Portable contactor lift used with three-high Limitamp control



Three-high Limitamp control

- | | | |
|--|--|-----------------------------|
| 1. Low-voltage compartment (swing-out panel in one-high) | 4. Shutters covering high-voltage terminals | 8. ON-OFF operating handle |
| 2. High-voltage compartment | 5. Cable compartment | 9. Snapout door lintel |
| 3. Barrier-separating components | 6. Power fuses | 10. Portable contactor lift |
| | 7. Drawout contactor with swing-open feature (rollout in one-high) | |

Limitamp control is high-interrupting capacity high-voltage control used throughout industry to control and protect squirrel-cage, wound-rotor, and synchronous motors. It can also be used to feed transformers and other power-utilization circuits.

Typical applications are in paper, steel, cement, rubber, mining, petroleum, chemical, and utility-type industries. Limitamp control is also typically used in water and sewage plants and public buildings for air conditioning, pumps and compressors.

Limitamp control is designed to meet NEMA requirements. It employs fast-acting current-limiting power fuses, a 400-ampere drawout air-break contactor, and ambient-compensated overload relays for complete control and protection of motors used on modern power-utilization systems with high available short-circuit currents.

Relaying, ground-fault protection, and lightning arresters are typical of available modifications.

FEATURES

- **Drawout Construction**—Contactor and power fuses form a single drawout assembly. No bolts to remove or cables to disconnect.
- **New Design Contactor**—New contactor is more compact and has unique swing-open feature providing almost instant inspection and maintenance.
- **1- or 3-high Selectivity**—Limitamp control is available in either one-high or three-high enclosures to meet the needs of the application.
- **NEMA Rated**—Limitamp control is fully rated and designed to meet the requirements of NEMA Class E-2 controllers.
- **Built-in Power Bus**—Vertical power bus is a standard feature of Limitamp control. Horizontal power bus is available within standard 90-inch height and lines up with that of previous designs.

- **Installation Ease**—Drawout construction, straight cable runs from top or bottom, ample room to enter enclosure make installation fast and easy.
- **Safe, Simple Operation**—A unique interlocking system is tied in with the positive ON-OFF operating handle to provide safe and simple operation.
- **Dependable Performance**—Limitamp control is coordinated to provide the required motor functions and offer reliable overcurrent protection against the damaging effects of overloads and short circuits.
- **Fast, Easy Maintenance**—Every component is accessible and removable from the front for simple inspection and maintenance. The drawout contactor swings open for rapid tip and shunt inspection and maximum access when maintenance is required.

RATINGS

Limitamp control is designed for operation on the following power systems.

System Utilization Voltage	Maximum Motor Hp		Interrupting Rating Kvd Symmetrical 3-phase 60 or 50 Cycles
	Induction, Wound-rotor, Synchronous 0.8 PF	Synchronous 1.0 PF	
2300 volts	1500	1750	200,000
4000 volts	2500	3000	360,000
4600 volts	2500	3000	400,000

Controllers are designed to meet NEMA Standards of 60-kv base impulse levels at voltages up to 4600 volts. The contactor is fully rated at 400 amperes (open rating) and 50-mva interrupting capacity.

Call Graybar for Complete Details

GENERAL ELECTRIC LIMITAMP® CONTROL

Limitamp motor control offered below is available in both 1-high and 3-high constructions except for RVNR synchronous motor control, which is available in 1-high construction only.

SQUIRREL-CAGE MOTOR CONTROL—3-PHASE, 60-CYCLE
1-high or 3-high Construction—NEMA Type 1 Enclosure

Max Hp	List Price, Each§		Width, Inches (90" High, 30" Deep)		Approx Weight Lb		3-high Space Units †
	2300 Volts	4000 and 4600 Volts	1-high	3-high	1-high	3-high*	

FULL-VOLTAGE NONREVERSING

200	\$3650	\$5000	34	44	1600	2600	1
400	3650	5000	34	44	1600	2600	1
700	3850	5000	34	44	1600	2600	1
1000	5000	5000	34	44	1600	2600	1
1250	5600	5000	34	44	1600	2600	1
1500	5600	6200	34	44	1600	2600	1
2500	.....	6200	34	44	1600	2600	1

FULL-VOLTAGE REVERSING

700	\$7100	\$7700	66	44	2200	2200	2
1000	7700	7700	66	44	2200	2200	2
1250	8300	7700	66	44	2200	2200	2
1500	8300	8900	66	44	2200	2200	2
2500	.....	8900	66	44	2200	2200	2

REDUCED-VOLTAGE NONREVERSING, PRIMARY-REACTOR TYPE

50	\$8400	\$9100	66	44	2500	2400	3
60	8500	9100	66	44	2500	2400	3
75	8500	9100	66	44	2600	2400	3
100	8500	9300	66	44	2700	2600	3
125	8600	9300	66	44	2700	2600	3
150	8800	9500	66	44	2700	2600	3
200	9000	9800	66	44	2900	2800	3
250	9200	9800	66	44	2900	2800	3
300	9200	9800	66	44	2900	2800	3
350	9400	10300	66	44	2900	2800	3
400	9400	10300	66	44	2900	2800	3
450	9500	10600	66	44	3400	3300	3
500	9500	10600	66	44	3400	3300	3
600	9700	10600	66	44	3400	3300	3
700	9900	11300	66	44	3400	3300	3
800	11000	11500	66	44	3400	3300	3
900	11000	12200	66	44	3400	3300	3
1000	11000	12200	66	44	3400	3300	3
1250	12700	12800	66	44	3400	3300	3
1500	12900	14700	66	44	4800	4700	3
1750	.....	15200	66	44	5400	5300	3
2000	.....	15700	66	44	5400	5300	3
2250	.....	16300	66	44	5400	5300	3
2500	.....	16800	66	44	5400	5300	3

SYNCHRONOUS MOTOR CONTROL—3-PHASE, 60-CYCLE
1-high or 3-high Construction—NEMA Type 1 Enclosure

Max Hp	List Price, Each§		Width, Inches (90" High, 30" Deep)		Approx Weight Lb		3-High Space Units †
	0.8 PF	1.0 PF	2300 Volts	4000 and 4600 Volts	1-high	3-high*	

FULL-VOLTAGE NONREVERSING

250	250	\$6500	\$7100	34	44	1600	3000	1 1/2
700	800	6500	7200	34	44	1600	3000	1 1/2
.....	900	7200	7200	34	44	1600	3000	1 1/2
1000	1250	7200	7200	34	44	1600	3000	1 1/2
1250	1500	7800	7200	34	44	1600	3000	1 1/2
1500	1750	8100	8700	34	44	1600	3000	1 1/2
2500	3000	.....	8800	34	44	1600	3000	1 1/2

BRUSHLESS FULL-VOLTAGE NONREVERSING

250	250	\$5900	\$6500	34	44	1600	3000	1 1/2
700	800	5900	6500	34	44	1600	3000	1 1/2
.....	900	6500	6500	34	44	1600	3000	1 1/2
1000	1250	6500	6500	34	44	1600	3000	1 1/2
1250	1500	7100	6500	34	44	1600	3000	1 1/2
1500	1750	7100	7700	34	44	1600	3000	1 1/2
2500	3000	.....	7700	34	44	1600	3000	1 1/2

§ Add \$220 to the List Price of each 3-high starter for required power bus.
* Squirrel-cage full-voltage nonreversing weight includes three starters deductible at 300 pounds each.
Squirrel-cage full-voltage reversing weight includes one starter deductible at 600 pounds.
Squirrel-cage reduced-voltage nonreversing weight includes one starter.
Synchronous weight includes two starters deductible at 450 pounds each.
† Space units required for each starter must be adjacent in the same vertical section.

SYNCHRONOUS MOTOR CONTROL—3-PHASE, 60-CYCLE
1-high Construction—NEMA Type 1 Enclosure

Max Hp	List Price, Each		Dimensions (In.) H x W x D	Approx Weight Lb
	0.8 PF	1.0 PF		

REDUCED-VOLTAGE NONREVERSING, PRIMARY-REACTOR TYPE

50	60	\$10500	\$11200	90 x 66 x 30	2000
60	75	10600	11200	90 x 66 x 30	2000
75	100	10600	11200	90 x 66 x 30	2000
100	125	10600	11400	90 x 66 x 30	2200
125	150	10700	11400	90 x 66 x 30	2200
150	175	10900	11600	90 x 66 x 30	2400
200	250	11100	11900	90 x 66 x 30	2400
250	.....	11300	11900	90 x 66 x 30	2400
.....	350	11400	12000	90 x 66 x 30	2400
300	.....	11400	12000	90 x 66 x 30	2400
350	450	11600	12500	90 x 66 x 30	2400
400	500	11600	12500	90 x 66 x 30	2900
450	.....	11700	12800	90 x 66 x 30	2900
500	700	11700	12800	90 x 66 x 30	2900
600	800	11900	12800	90 x 66 x 30	2900
700	.....	12100	13500	90 x 66 x 30	2900
.....	900	12700	13700	90 x 66 x 30	2900
800	1000	13200	13700	90 x 66 x 30	2900
900	.....	13200	14400	90 x 66 x 30	2900
1000	1250	13200	14400	90 x 66 x 30	2900
.....	1500	13900	15000	90 x 66 x 30	4300
1250	.....	14900	15000	90 x 66 x 30	4300
1500	2000	15400	17200	90 x 66 x 30	4300
1750	.....	.....	17800	90 x 66 x 30	4900
.....	2250	.....	18300	90 x 66 x 30	4900
2000	.....	.....	18300	90 x 66 x 30	4900
.....	2500	.....	18300	90 x 66 x 30	4900
2250	.....	.....	18900	90 x 66 x 30	4400
2500	3000	.....	19400	90 x 66 x 30	4900

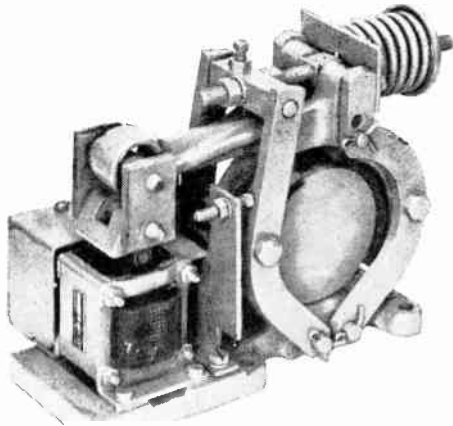
BRUSHLESS REDUCED-VOLTAGE NONREVERSING, PRIMARY-REACTOR TYPE

50	60	\$9900	\$10600	90 x 66 x 30	2000
60	75	10000	10600	90 x 66 x 30	2000
75	100	10000	10600	90 x 66 x 30	2000
100	125	10000	10800	90 x 66 x 30	2200
125	150	10100	10800	90 x 66 x 30	2200
150	175	10300	11000	90 x 66 x 30	2400
200	250	10500	11300	90 x 66 x 30	2400
250	.....	10700	11300	90 x 66 x 30	2400
.....	350	10700	11300	90 x 66 x 30	2400
300	.....	10700	11300	90 x 66 x 30	2400
350	450	10900	11800	90 x 66 x 30	2400
400	500	10900	11800	90 x 66 x 30	2900
450	.....	11000	12100	90 x 66 x 30	2900
500	700	11000	12100	90 x 66 x 30	2900
600	800	11200	12100	90 x 66 x 30	2900
700	.....	11400	12800	90 x 66 x 30	2900
.....	900	12500	13000	90 x 66 x 30	2900
800	1000	12500	13000	90 x 66 x 30	2900
900	.....	12500	13700	90 x 66 x 30	2900
1000	1250	12500	13700	90 x 66 x 30	2900
.....	1500	14200	14300	90 x 66 x 30	4300
1250	.....	14200	14300	90 x 66 x 30	4300
1500	2000	14400	16200	90 x 66 x 30	4300
1750	.....	.....	16700	90 x 66 x 30	4900
.....	2250	.....	17200	90 x 66 x 30	4900
2000	.....	.....	17200	90 x 66 x 30	4900
.....	2500	.....	17800	90 x 66 x 30	4900
2250	.....	.....	17800	90 x 66 x 30	4900
2500	3000	.....	18300	90 x 66 x 30	4900

The Above Items Are Subject to 16% Discount

GENERAL ELECTRIC IC9516 A-C BRAKES

The IC9516 a-c brake is a shoe-type holding brake operating on the shaft extension of an electric motor or other



IC9516-460 brake

rotating machine. The brake is especially designed for small a-c cranes; for spinning equipment in textile mills; and for use in laundries, bakeries, food processing plants, small assembly plants, and metal-working plants.

Features of the IC9516 brake include (1) *long mechanical life*—wear-resistant wheels and linings; (2) *easy torque adjustment*—achieved by adjusting nuts at end of spring which sets brake; (3) *solenoid-coil connections protected*—metal connection and conduit box mounted adjacent to solenoid.

The brake may also be used for stopping duty, if proper application rules are followed.

Brake shoes are lined with woven asbestos. Because the shoes operate at low unit pressure, lining wear is reduced, and normal time between relinings is lengthened.

Brakes are spring-set type electrically released by solenoid or Thrustor® mechanism. Thrustor mechanisms, which are used on larger sizes, are especially smooth in operation, and in most ratings provide a time-delay adjustment.

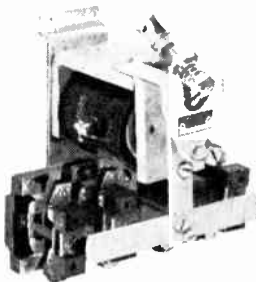
Wheel Diameter in Inches	Torque-Rating Lb-ft		IC9516 Brake Form	List Price, Floor-mounted, with Wheel					Add for Hand Release	Omission or Separate List Price for Brake Wheel
	Continuous	60 Min Intermittent		Open	Enclosed					
					NEMA Type 2, Drip-tight	NEMA Type 3, Weather-resistant	NEMA Type 4, Water-tight	NEMA Type 5, Dust-tight		
SOLENOID-OPERATED—110, 220, 440, and 550 Volts, 60 and 50 Cycles										
2 3/4	3	3	458AA	\$95	\$159	\$159	\$245	\$245	\$85	\$10
3 1/2	10	15	460AA1	142	206	206	332	332	125	16
4 15/32	25	35	461E	212	287	287	472	472	175	27
5 3/4	50	75	462L	310	396	396	630	630	210	46
8	125	160	463A1	570	673	673	960	960	255	90
11	325	400	464U	1095	1220	1220	1635	1635	295	175
14	600	600	465A1	1468	1608	1608	2118	2118	315	300
THRUSTOR-OPERATED—110, 220, 440, and 550 Volts A-c, 60 and 50 Cycles, 3-phase										
8	125	160	463C†	\$883	\$986	\$986	\$1273	\$1273	\$255	\$90
11	325	400	464S	1230	1355	1355	1770	1770	295	175
14	600	800	465N	1670	1810	1810	2320	2320	315	300
19	1200	1600	466N	2590	2752	2752	3380	3380	365	560
24	2400	3600	467E	3970	4155	4155	4930	4930	410	910
30	.....	10000	468D	8000	8235	8235	9350	9350	615	1450

† Can be supplied for either single-phase or three-phase operation. For 550 volts, single-phase or three-phase, add \$146 list for auxiliary transformer. Note: Time-delay adjustment is included on all Thrustor operated brakes except Form 463C.

GENERAL ELECTRIC IC2820 D-C GENERAL-PURPOSE RELAYS

Use these d-c relays for general-purpose switching, undervoltage protection, field protection, plugging, and sim-

ilar applications. The relays are front-connected and can be mounted on either steel or insulating panels.



IC2820 Eight-circuit relay

No. of Circuits	Contact Arrangement		IC2820 Form		List Price, Each	No. of Circuits	Contact Arrangement		IC2820 Form		List Price, Each
	NO	NC	115 Volts	230 Volts			NO	NC	115 Volts	230 Volts	
2	0	2	A200A3D A200A3E A200A3F	A200A2D A200A2E A200A2F	30 30 30	8	5	3	A100BB3BE A100BB3BF A100BB3BG A100BB3BH	A100BB2BE A100BB2BF A100BB2BG A100BB2BH	88 88 88 88
4	2	2	A200A3J A200A3K A200A3L	A200A2J A200A2K A200A2L	42 42 42	10	4	6	A100BB3CB A100BB3CC A100BB3CD A100BB3CE A100BB3CF A100BB3CG A100BB3CH	A100BB2CB A100BB2CC A100BB2CD A100BB2CE A100BB2CF A100BB2CG A100BB2CH	100 100 100 100 100 100 100
6	0	6	A100BB3AB A100BB3AD A100BB3AE A100BB3AF A100BB3AG A100BB3AH A100BB3AJ	A100BB2AB A100BB2AD A100BB2AE A100BB2AF A100BB2AG A100BB2AH A100BB2AJ	76 76 76 76 76 76 76	12	6	6	A100BB3CJ A100BB3CK A100BB3CL A100BB3CM A100BB3CN A100BB3CP A100BB3CQ	A100BB2CJ A100BB2CK A100BB2CL A100BB2CM A100BB2CN A100BB2CP A100BB2CQ	112 112 112 112 112 112 112

The Above Items Are Subject to 16% Discount

GENERAL ELECTRIC TERMINAL BOARDS

CR151 TYPE C—SECTIONAL, RATED 25 AND 50 AMPERES, 750 VOLTS MAX. (AIEE SWITCHGEAR STANDARDS)

COMPONENTS AND ACCESSORIES FOR CUSTOMER ASSEMBLY



Description	Amp Rating	Nomenclature	Package Qty. Order in Multiples of Qty Listed	List Price
Basic Terminal Block Sections:				
Screw-Type Terminal—Form less marking strip	25	CR151 C0100	100	\$30.30/pkg
Screw-Type Terminal—With painted marking surface	25	CR151 C0100AB	100	31.75/pkg
Box-type Terminal—Form less marking strip	25	CR151 C0200	100	31.40/pkg
	50	CR151 C2200	100	39.30/pkg
Box-type Terminal—With painted marking surface	25	CR151 C0200AB	100	32.85/pkg
	50	CR151 C2200AB	100	40.75/pkg
Box-clamp Type Terminal—Form less marking strip*	25	CR151 C0300	100	40.15/pkg
	50	CR151 C2300	100	50.15/pkg
Box-clamp Type Terminal—With painted marking surface	25	CR151 C0300AB	100	41.60/pkg
	50	CR151 C2300AB	100	51.60/pkg
End Segment (Need one for each assembled board) †				
	25	CR151 C1	50	\$12.65/pkg
	50	CR151 C10	50	15.75/pkg
Mounting Channel (Four-feet long)	..	CR151 C2	1	3.35 ea
Vinyl Marking Strip (50-inches long)	..	CR151 C3	1	.45 ea
Mounting Clamp (Need two for each channel-mounted board)	..	CR151 C7	50	7.60/pkg
Marking Strip Retainer (Need one for each mounted marking strip)	..	CR151 C8	50	1.25/pkg

*Forms with headless screws are available. Consult Graybar.

†Use 50-amp segment as separator whenever 25-amp and 50-amp forms are used side-by-side.

FACTORY ASSEMBLED

No. of Points (Circuits)	With Screw-type Terminals			With Box-type Terminals						With Box-clamp Type Terminals					
	25 Ampere			25 Ampere			50 Ampere			25 Ampere			50 Ampere		
	Nomenclature CR151	List Price, Each	With No Marking Strip or Painted Surface	Nomenclature CR151	List Price, Each	With No Marking Strip or Painted Surface	Nomenclature CR151	List Price, Each	With No Marking Strip or Painted Surface	Nomenclature CR151	List Price, Each	With No Marking Strip or Painted Surface	Nomenclature CR151	List Price, Each	With No Marking Strip or Painted Surface
2	C0102**	\$0.93	\$0.96	C0202**	\$1.02	\$1.04	C2202**	\$1.21	\$1.24	C0302**	\$1.15	\$1.18	C2302**	\$1.38	\$1.40
3	C0103**	1.24	1.28	C0203**	1.33	1.37	C2203**	1.60	1.64	C0303**	1.56	1.60	C2303**	1.88	1.92
4	C0104**	1.54	1.60	C0204**	1.65	1.71	C2204**	2.00	2.06	C0304**	1.96	2.01	C2304**	2.39	2.45
5	C0105**	1.85	1.92	C0205**	1.97	2.04	C2205**	2.40	2.47	C0305**	2.36	2.43	C2305**	2.89	2.96
6	C0106**	2.15	2.24	C0206**	2.29	2.37	C2206**	2.81	2.89	C0306**	2.77	2.85	C2306**	3.40	3.49
7	C0107**	2.46	2.55	C0207**	2.61	2.71	.....	.....	.....	C0307**	3.17	3.27	.....	.....	.....
8	C0108**	2.77	2.87	C0208**	2.93	3.04	.....	.....	.....	C0308**	3.57	3.68	.....	.....	.....
9	C0109**	3.07	3.19	C0209**	3.25	3.37	.....	.....	.....	C0309**	3.97	4.10	.....	.....	.....
10	C0110**	3.37	3.52	C0210**	3.57	3.71	.....	.....	.....	C0310**	4.38	4.51	.....	.....	.....
11	C0111**	3.68	3.84	C0211**	3.89	4.05	.....	.....	.....	C0311**	4.78	4.93	.....	.....	.....
12	C0112**	3.98	4.15	C0212**	4.21	4.38	.....	.....	.....	C0312**	5.18	5.35	.....	.....	.....

DIRECT MOUNTING—WITHOUT CHANNEL

2	C0102**	\$0.93	\$0.96	C0202**	\$1.02	\$1.04	C2202**	\$1.21	\$1.24	C0302**	\$1.15	\$1.18	C2302**	\$1.38	\$1.40
3	C0103**	1.24	1.28	C0203**	1.33	1.37	C2203**	1.60	1.64	C0303**	1.56	1.60	C2303**	1.88	1.92
4	C0104**	1.54	1.60	C0204**	1.65	1.71	C2204**	2.00	2.06	C0304**	1.96	2.01	C2304**	2.39	2.45
5	C0105**	1.85	1.92	C0205**	1.97	2.04	C2205**	2.40	2.47	C0305**	2.36	2.43	C2305**	2.89	2.96
6	C0106**	2.15	2.24	C0206**	2.29	2.37	C2206**	2.81	2.89	C0306**	2.77	2.85	C2306**	3.40	3.49
7	C0107**	2.46	2.55	C0207**	2.61	2.71	.....	.....	.....	C0307**	3.17	3.27	.....	.....	.....
8	C0108**	2.77	2.87	C0208**	2.93	3.04	.....	.....	.....	C0308**	3.57	3.68	.....	.....	.....
9	C0109**	3.07	3.19	C0209**	3.25	3.37	.....	.....	.....	C0309**	3.97	4.10	.....	.....	.....
10	C0110**	3.37	3.52	C0210**	3.57	3.71	.....	.....	.....	C0310**	4.38	4.51	.....	.....	.....
11	C0111**	3.68	3.84	C0211**	3.89	4.05	.....	.....	.....	C0311**	4.78	4.93	.....	.....	.....
12	C0112**	3.98	4.15	C0212**	4.21	4.38	.....	.....	.....	C0312**	5.18	5.35	.....	.....	.....

CHANNEL MOUNTED

2	C1102**	\$1.92	\$1.95	C1202**	\$2.03	\$2.05	C3202**	\$2.36	\$2.39	C1302**	\$2.13	\$2.15	C3302**	\$2.57	\$2.60
3	C1103**	2.28	2.32	C1203**	2.42	2.46	C3203**	2.83	2.87	C1303**	2.58	2.63	C3303**	3.08	3.13
4	C1104**	2.64	2.70	C1204**	2.80	2.86	C3204**	3.31	3.36	C1304**	3.04	3.09	C3304**	3.66	3.71
5	C1105**	3.00	3.07	C1205**	3.19	3.26	C3205**	3.77	3.85	C1305**	3.50	3.55	C3305**	4.22	4.30
6	C1106**	3.36	3.44	C1206**	3.58	3.67	C3206**	4.23	4.33	C1306**	3.96	4.05	C3306**	4.80	4.88
7	C1107**	3.72	3.82	C1207**	3.97	4.07	C3207**	4.72	4.82	C1307**	4.42	4.52	C3307**	5.37	5.45
8	C1108**	4.08	4.20	C1208**	4.36	4.47	C3208**	5.20	5.30	C1308**	4.88	4.98	C3308**	5.93	6.05
9	C1109**	4.45	4.57	C1209**	4.75	4.87	C3209**	5.67	5.80	C1309**	5.33	5.46	C3309**	6.50	6.64
10	C1110**	4.80	4.95	C1210**	5.14	5.28	C3210**	6.14	6.30	C1310**	5.80	5.93	C3310**	7.07	7.20
11	C1111**	5.17	5.32	C1211**	5.52	5.68	C3211**	6.61	6.77	C1311**	6.25	6.41	C3311**	7.64	7.80
12	C1112**	5.53	5.70	C1212**	5.92	6.10	C3212**	7.08	7.25	C1312**	6.70	6.87	C3312**	8.22	8.37
13-99	C11φφ**	.....	.....	C12φφ**	.....	.....	C32φφ**	.....	.....	C13φφ**	.....	.....	C33φφ**	.....	.....

**Omit for forms less marking strip or painted surface, add AA for forms with vinyl strip or add AB for forms with white-painted marking surface.
φφInsert number of points for forms having 26 through 99 points.

**CR151 TYPE B—ONE PIECE, 30 AMPERES AT 600 VOLTS
30-AMP CONTROL CIRCUIT BOARDS**

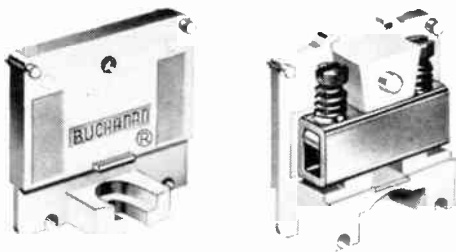


No. of Points Per Board	Screw Terminals Both Sides	List Price, Each	Screw Terminals One Side; Clamp Other Side	List Price, Each	Clamp Both Sides	List Price, Each	Approx Dimensions in Inches	
							Length	Centers of Mounting Holes
4	CR151 B4	\$0.75	CR151 B45	\$0.95	CR151 B46	\$1.10	2 3/8	1 1/2
6	CR151 B6	1.10	CR151 B65	1.20	CR151 B66	1.40	3 1/8	2 1/4
12	CR151 B2	2.00	CR151 B25	2.30	CR151 B26	2.60	6 3/8	5 3/4

The Above Items Are Subject to 15% Discount

BUCHANAN MINIATURE (MIN) SECTIONAL TERMINAL BLOCKS

For Wire Sizes #12 or Smaller



End Section

Contact Section

Maximum number of contacts in minimum space: ¼" center-to-center contact spacing allows 48 circuits per foot. Each contact section is only ⅜" high and ⅞" wide. Completely eliminates lugging. Tubular contact has captive clamp. Simply insert wires. Rated at 300 Volts NEMA General Industrial Control Devices; 600 Volts NEMA Limited Power Circuits. Molded of tough durable high-dielectric nylon. Packaged 2 blocks of 25 pre-assembled sections per carton.

Section	Type of Contact	Shpg. Wt.		Cat. No.	Per 100
		No.	Lbs./M		
Contact Tubular (Captive) Clamp		125	15		\$25.00
End None		130	5		10.00

BUCHANAN MEDIUM DUTY (MD) SECTIONAL TERMINAL BLOCKS

For Wire Sizes #22 thru #8*

Snap-Fit Sections With Integral Painted Marking Strips



End Section

Contact Section

Three Types of Contacts

Strap Screw #8 or smaller*	Tubular Screw #18 thru #8*	Tubular Clamp #22 thru #10*
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Easy-to-handle pre-assembled lengths of 20 sections. Can be combined with Buchanan Heavy Duty (HD) contact sections to form continuous block. 10 circuits in only 4 7/8" (plus 3 1/2" for complete block).

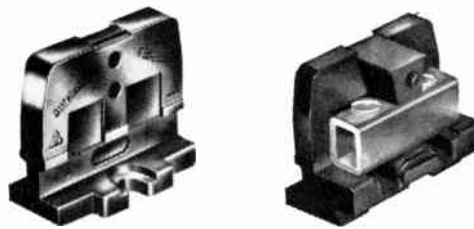
Type of Contact	Flat Base		Dovetail Base	
	Cat. No.	Per 100	Cat. No.	Per 100
	Contact Section			
Strap Screw	521	\$26.00	0521	\$27.00
Tubular Screw	524	27.70	0524	28.70
Tubular Clamp	525	33.70	0525	34.70
	End Section			
None	530	18.20	0530	19.20

Tubular contacts listed by Underwriters' Laboratories, Inc. Blocks listed by Canadian Standards Association.

BUCHANAN HEAVY DUTY (HD) SECTIONAL TERMINAL BLOCKS

For Wire Sizes #18 thru #4*

Snap-Fit Sections With Integral Painted Marking Strips



End Section

Contact Section

Four Types of Contacts

Strap Screw #8 or smaller*	Strap Clamp #18 thru #8	Tubular Screw #14 thru #4*	Tubular Clamp #18 thru #6*
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Easy-to-handle pre-assembled lengths of 10 snap-fit contact sections. Contact sections can be added to either end of complete block without removing mounting screws, or can be combined with Buchanan MD contact sections to form a continuous block. End sections are reversible, have slotted mounting holes on both sides. 10 circuits in only 5 3/4" (plus 13/16" for complete block)

Type of Contact	Flat Base		Dovetail Base	
	Cat. No.	Per 100	Cat. No.	Per 100
	Contact Section			
Strap Screw	221	\$34.20	0221	\$35.20
Strap Clamp	228	36.20	0228	37.20
Tubular Screw	222	38.20	0222	39.20
Tubular Clamp	223	44.20	0223	45.20
	End Section			
None	230	22.70	0230	23.70

BUCHANAN EXTRA HEAVY DUTY (XHD) SECTIONAL TERMINAL BLOCKS

For Wire Sizes #4 thru 250MCM*

Snap-Fit Sections With Integral Painted Marking Strips



End Section

Contact Section

Meet NEMA, UL and CSA 600 volt requirements for industrial control equipment and panelboards (2" creepage and 1" clearance between contacts and to ground). Easy-to-handle pre-assembled lengths of 6 snap-fit contact sections. 3-circuits in only 3 1/4" (plus 1 1/4" for complete block).

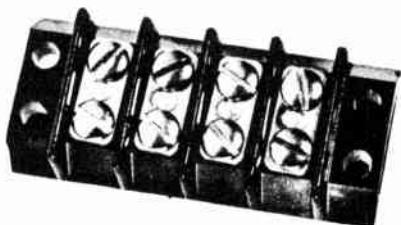
For Direct or Channel Mounting

Section	For Wire Sizes	Cat. No.	Shpg. Wt. Lbs./M	Per 100
Contact	#4-#2/0*	426	410	\$205.80
	#2/0-250MCM*	427	500	337.80
End	None	430	190	42.90

*Or equivalent combinations.

MARATHON SPECIAL PRODUCTS

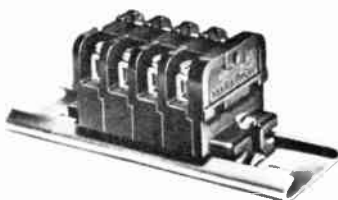
MEDIUM DUTY TERMINAL BLOCKS



Standard Screw Terminals

No. Lines	Series 100 6-32 Screw Both Sides		Series 200 6-32 Screw Both Sides		Series 300 8-32 Screw Both Sides		Series 400 10-32 Screw Both Sides	
	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
1	101	\$0.15	201	\$0.20	301	\$0.23	401	\$0.55
2	102	.24	202	.31	302	.36	402	.94
3	103	.33	203	.42	303	.51	403	1.32
4	104	.42	204	.54	304	.65	404	1.71
5	105	.51	205	.64	305	.78	405	2.09
6	106	.59	206	.75	306	.92	406	2.49
7	107	.68	207	.88	307	1.07	407	2.86
8	108	.77	208	.99	308	1.20	408	3.25
9	109	.86	209	1.10	309	1.34	409	3.63
10	110	.95	210	1.22	310	1.49	410	4.02
11	111	1.03	211	1.33	311	1.62	411	4.40
12	112	1.12	212	1.44	312	1.76	412	4.79
13	113	1.21	213	1.56	313	1.90		
14	114	1.31	214	1.67	314	2.04		
15	115	1.40	215	1.78	315	2.18		
16	116	1.49	216	1.90	316	2.32		
17	117	1.57	217	2.01	317	2.45		
18	118	1.66	218	2.12	318	2.58		
19	119	1.75	219	2.24	319	2.76		
20	120	1.84	220	2.35	320	2.90		

COMPACT TERMINAL BLOCKS



White Marking Surface Type of Connector	Flat Base For Panel Mounting		Wej-Lok Base For Channel Mounting	
	Cat. No.	Per 100	Cat. No.	Per 100
Connector Section				
Type SB Screw Binder	26000	\$23.95	36000	\$25.00
Type PS Pressure Screw	27000	24.85	37000	25.85
Type PC Pressure Clamp	28000	31.40	38000	32.75
End Section				
None	24000	19.10	34000	20.15
Accessories				
Cat. No.	Description	Per 100 Feet		
20	White Vinyl Marking Strip — 1/2" x 2'	\$ 7.85		
22	Pressure Sensitive Marking Strip — 1/8" x 242'	1.75*		
30	Steel Mounting Channel — 4' Lengths	38.50		
31	Alum. Mounting Channel — 6' Lengths	38.50		
35	Channel Clamp (2 required per block)	11.55		

*Each.

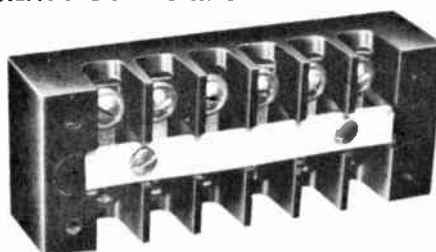
HEAVY DUTY SERIES 1000 TERMINAL BLOCKS



For solid or stranded wires. Positive wire insertion guide. Secure with grip — no wire damage.

Cat. No.	No. Lines	Each	Cat. No.	No. Lines	Each
1002	2	\$1.03	1007	7	\$1.95
1004	4	1.30	1008	8	2.10
1006	6	1.70	1012	12	3.00

HEAVY DUTY SERIES TERMINAL BLOCKS



Screw terminal block. Wide slot openings for lugs. Terminals accommodate two lugs each. Cadmium plated hardware.

Cat. No.	No. Lines	Each	Cat. No.	No. Lines	Each
6002	2	\$1.35	6006	6	\$1.93
6003	3	1.40	6008	8	2.40
6004	4	1.45	6012	12	3.34

HEAVY DUTY FUSE BLOCKS



Cat. No.	Connector	Volts	Amps.	Max. Wire Size	Std. Pkg.	Each
F30A1	Screw	250	30	#10	50	\$0.60
F30A2	Screw	250	30	#10	50	1.00
F30A3	Screw	250	30	#10	45	1.40
F30A1S	Screw	250	30	#10	50	.80
F30A2S	Screw	250	30	#10	50	1.20
F30A3S	Screw	250	30	#10	45	1.60
F60A1	Box	250	60	#4	45	1.40
F60A2	Box	250	60	#4	25	2.00
F60A3	Box	250	60	#4	15	3.60
F100A1	Box	250	100	#1/0	45	2.80
F100A2	Box	250	100	#1/0	25	5.60
F100A3	Box	250	100	#1/0	15	8.00
F200A1	Box	250	200	#4/0	....	2.80
F400A1	Box	250	400	500Mcm	....	3.60
6F30A1	Box	600	30	#4	45	1.40
6F30A2	Box	600	30	#4	25	2.60
6F30A3	Box	600	30	#4	15	3.60
6F30A1S	Screw	600	30	#4	45	1.20
6F30A2S	Screw	600	30	#4	25	2.20
6F30A3S	Screw	600	30	#4	15	3.20
6F60A1	Box	600	60	#4	45	1.60
6F60A2	Box	600	60	#4	25	2.80
6F60A3	Box	600	60	#4	15	3.60
6F100A1	Box	600	100	#1/0	25	3.20
6F100A2	Box	600	100	#1/0	15	5.80
6F100A3	Box	600	100	#1/0	10	8.60
6F200A1	Box	600	200	#4/0	....	4.50
6F400A1	Box	600	400	500Mcm	....	10.75

PRECISION MICRO SWITCHES

Each switch is a precision snap-acting mechanism consisting of molded-in brass terminals, fixture-hardened beryllium copper springs, and fine silver contacts. Internal spring characteristics are adjusted for specific applications to give accurate repeatability for millions of actuations.

Series "A" and "B" momentary-contact switches illustrated are single-pole double-throw. These switches are also available as single-pole single-throw versions either normally open or normally closed.

Precision Switches are available in the following ratings:

Type — Electrical Rating: Series "A" or Series "B"

A	Underwriters' Laboratories Inc. Listed: 15 Amperes	125,250 or 480 Volts A.C.
B	Underwriters' Laboratories Inc. Listed: 20 Amperes	125,250 or 480 Volts A.C. 1 H.P. 125 Volts A.C. 2 H.P. 250 Volts A.C.
C	Underwriters' Laboratories Inc. Listed: 10 Amperes	125,250 or 480 Volts A.C.
D	Underwriters' Laboratories Inc. Listed: 22 Amperes	125,250 or 480 Volts A.C. ¾ H.P. 125 Volts A.C. 1½ H.P. 250 Volts A.C.
E	Underwriters' Laboratories Inc. Listed: 22 Amperes	125,250 or 480 Volts A.C.

TYPES OF SWITCHES

PIN PLUNGER



Designed for applications involving limited motion and very accurate operating characteristics.

COMPACT OVERTRAVEL PLUNGER



Allows 1/8" overtravel by means of a spring loaded plunger.

RIGID LEVER



Provides a low operating force and long overtravel. A return spring dampens the effect of vibration.

LOW FORCE SWITCH



Similar to the Rigid Lever Switch except the return spring is eliminated to effect an extremely low operating force.

LONG LEVER ACTUATOR



Applicable in situations involving excessive impact and overtravel, where critical actuation is not required.

PRECISION MICRO SWITCHES

FLEXIBLE LEAF



Permits lower operating forces and greater actuating movement than plunger actuated switches. Overtravel is limited to 1/8".

ROLLER LEVER



Designed for operations requiring rolling contact with the actuating means, as well as long overtravel and low operating forces. A return spring is provided to dampen the effect of vibration.

SHORT ROLLER LEVER



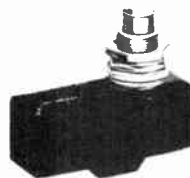
Similar to Roller Lever Switch. The actuator is shorter for more compact design and faster repeatability.

ROLLER LEAF



Applicable where a low operating force and large operating movement are required.

PANEL MOUNT PLUNGER



Features a bushing mounted plunger which may be manually or mechanically actuated and permits adjustment of operating point.

SERIES A GENERAL PURPOSE SWITCHES

Designed for applications which do not involve high inrush currents. This series is particularly well suited to applications requiring low operating forces and minimum pretravel and overtravel characteristics.

SEALED ACTUATOR AND COVER SWITCHES

Switches in this group have a silicone boot that seals the clearance between the case and the plunger as well as a permanent seal around the cover that prevent the entrance of moisture and contaminants into the switching chamber.

HIGH SENSITIVITY SWITCHES

Switches in this group are characterized by extremely small movement differential and low actuating force. They are carefully assembled and closely adjusted for use in thermostats and delicate instruments or devices.

SERIES B HEAVY DUTY SWITCHES

Switches in this group have a steady state current rating of 20 amperes at voltages up to 480 volts A.C. They are specifically designed to handle heavy duty electrical loads, including 2 H.P. at 250 volts A.C. with an inrush up to 75 amperes.

OTHER TYPES OF SWITCHES

Contact Graybar for complete information and prices.

Price on Application

SQUARE D MANUAL STARTERS AND SWITCHES
FRACTIONAL HORSEPOWER MANUAL STARTERS — CLASSES 2510 AND 2512
MELTING ALLOY OVERLOAD RELAYS

Fractional horsepower manual starters are used whenever it is desired to have overload protection as well as Off-On control of small ac single phase or dc motors. The motor is started at line voltage. The open starter without pilot light fits in a standard switch or conduit box, and can be used with a standard flush plate.

STARTERS (SINGLE-UNIT, CLASS 2510) 115-230 VOLTS AC (1 OR 2 POLE) AND DC (2 POLE ONLY)

No. of Poles	Features	Gen. Purpose Enclosure Surface Mounting NEMA Type 1±		Gen. Purpose Flush Mounting±		General Purpose Flush Mounting With Stainless Steel Flush Plate				Water-tight & Dust-tight Enclosure NEMA Types 4 & 5		Class I Groups B, C & D & Class II Groups E, F & G NEMA Types 7 & 9		Open Type (Without Nameplate)	
		Type	Price	Type	Price	Std. Plate		Jumbo Plate		Type	Price	Type	Price	Type	Price
						Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
1	Toggle	FG-1	\$ 7.50	FF-1	\$ 7.	FS-1	\$ 7.50	FSJ-1P	\$12.					FO-1	\$ 6.50
	Pilot Light	FG-1P	10.50	FF-1P	10.	FS-1P	10.50							FO-1P	9.50
	Handle guard	FG-5	8.50	*	*	*	*	*	*	FW-1	\$24.	FR-1	\$24.		
	Pilot light & handle guard	FG-5P	11.50	*	*	*	*	*	*	FW-81	59.				
	Two conduit hubs									FW-1H	26.	FR-1H	26.		
	Pilot light & 2 conduit hubs									FW-81H	61.				
2	Toggle	FG-2	8.50	FF-2	8.	FS-2	8.50	FSJ-2P	13.					FO-2	7.50
	Pilot light	FG-2P	11.50	FF-2P	11.	FS-2P	11.50							FO-2P	10.50
	Handle guard	FG-6	9.50	*	*	*	*	*	*	FW-2	25.	FR-2	25.		
	Pilot light & handle guard	FG-6P	12.50	*	*	*	*	*	*	FW-82	60.				
	Two conduit hubs									FW-2H	27.	FR-2H	27.		
	Pilot light & 2 conduit hubs									FW-82H	62.				

STARTERS (DOUBLE-UNIT, CLASS 2510) 115-230 VOLTS AC (1 OR 2 POLE) AND DC (2 POLE ONLY)

No. of Poles	Features*	General Purpose Enclosure Surface Mounting NEMA Type 1±		General Purpose Flush Mounting Without Pull Box			
		Type	Price	Std. Painted (Gray) Plate±		Stainless Steel Plate	
				Type	Price	Type	Price
2	One — 2 Pole Starter One — "Auto-Off-Hand" Selector Switch (ac only)	FG-72	\$18.	FF-72	\$17.		
	One — 2 Pole Starter with Pilot Light One — "Auto-Off-Hand" Selector Switch (ac only)	FG-72P	21.	FF-72P	20.	●FS-72P	\$21.
	One — 2 Pole Starter	FG-02	12.50				
	Two — 2 Pole Starters, each with Pilot Light	FG-22P	31.	FF-22P	30.	●FS-22P	31.

TWO-SPEED STARTERS (CLASS 2512) 115-230 VOLTS AC

No. of Poles	Speed	Features	Type		Price	
			Type	Price	Type	Price
1	Two Speed	Two — 1 Pole Starters	FG-11	\$25.	FF-11	\$24.
		Two — 1 Pole Starters, each with Pilot Light	FG-11P	36.	FF-11P	35.	▲FS-101P	$36.
2	Two Speed	Two — 2 Pole Starters	FG-22	27.	FF-22	26.
		Two — 2 Pole Starters, each with Pilot Light	FG-22P	38.	FF-22P	37.	▲FS-202P	38.

ELECTRICAL RATINGS TYPE F STARTERS

No. of Poles	Volts	Max. HP	
		AC Single Phase	DC
1	115 or 230	1	..
2	115 or 230	1	¼

TYPE K SWITCHES

Volts	HP		Resistance Ratings	
	1 φ, 2 P	3 φ, 3 P	Volts	Amps
120	1	2	250	30
240	2	3	600	20
480	3	5	..	..
600	3	5	..	..



Type FG-2



Type KG-2B



Type FF-4

MANUAL MOTOR STARTING SWITCHES — CLASS 2510

WITHOUT OVERLOAD PROTECTION

Manual motor starting switches are used to control small motors not requiring overload protection. The open switch without pilot light fits in a standard switch or conduit box and can be used with a standard flush plate.

SWITCHES — SINGLE UNIT 115-230 VOLTS AC

No. of Poles	Features*	Gen. Purpose Enclosure Surface Mounting NEMA Type 1±		Gen. Purpose Flush Mounting±		General Purpose Flush Mounting With Stainless Steel Flush Plate				Water-tight & Dust-tight Enclosure NEMA Types 4 & 5		Class I Groups B, C & D & Class II Groups E, F & G NEMA Types 7 & 9		Open Type (Without Nameplate Without Handle Guard)	
		Type	Price	Type	Price	Std. Plate		Jumbo Plate		Type	Price	Type	Price	Type	Price
						Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
2	Toggle and handle guard	KG-1	\$ 4.60	KF-1	\$ 4.10	KS-1	\$ 4.60	KSJ-1A	\$11.10	KW-1	\$21.10	KR-1	\$21.10	KO-1	\$ 8.60
	Pilot light 115 V. ac	KG-1A	9.60	KF-1A	9.10	KS-1A	9.60	KSJ-1A	11.10					KO-1A	8.60
	Pilot light 230 V. ac	KG-1B	9.60	KF-1B	9.10	KS-1B	9.60	KSJ-1B	11.10					KO-1B	8.60
	Two conduit hubs									KW-1H	23.10	KR-1H	23.10		
	Key operated	KG-3	6.60	KF-3	6.10	KS-3	6.60							KO-3	5.60
	Key operated with pilot light 115 V. ac	KG-3A	11.60	KF-3A	11.10	KS-3A	11.60	KSJ-3A	13.10					KO-3A	10.60
3	Toggle and handle guard	KG-2	10.50	KF-2	10.	KS-2	10.50			KW-2	27.	KR-2	27.	KO-2	9.50
	Pilot light 208/240 V. ac	KG-2B	15.50	KF-2B	15.	KS-2B	15.50	KSJ-2B	17.					KO-2B	14.50
	Pilot light 440/600 V. ac	KG-2C	15.50	KF-2C	15.	KS-2C	15.50	KSJ-2C	17.					KO-2C	14.50
	Two conduit hubs									KW-2H	29.	KR-2H	29.		
	Key operated	KG-4	12.50	KF-4	12.	KS-4	12.50							KO-4	11.50
	Key operated with pilot light 208/240 V. ac	KG-4B	17.50	KF-4B	17.	KS-4B	17.50	KSJ-4B	19.					KO-4B	16.50

± For cavity mounting only — does not fit standard switch box.

* Handle guard kits are available for field addition to Types FF, FG, FS and FSJ enclosures. Handle guard is standard on all Type K enclosed switches with toggle operator.

± Pilot light kits are available for field addition to Types FF, FG, KF and KG.

● Fits standard two gang switch box.

▲ Fits standard three gang switch box.

Prices include one overload relay thermal unit per starter. Deduct \$1.50 if thermal unit is omitted.

The above items are subject to 15% Discount.

SQUARE D MANUAL STARTERS AND REVERSING DRUM SWITCHES
CLASS 2510 AC MANUAL STARTERS

Line voltage manual starters are used where it is convenient for the operator to start and stop small single phase or polyphase motors by pressing push buttons mounted in the cover of the starter enclosure. Low voltage protection and low voltage release are not available with the manually operated mechanism.

PUSH BUTTON TYPE OPERATION — MELTING ALLOY TYPE THERMAL OVERLOAD RELAYS

600 VOLTS MAX.				CLASS 2510										NON-REVERSING			
No. of Poles	Size	Ratings		General Purpose Enclosure NEMA Type 1		Water-tight and Dust-tight Enclosure NEMA Types 4-5		Water-tight Stainless Steel Enclosure NEMA Type 4		Dust-tight Industrial Use Enclosure NEMA Type 12		Class I Group D or Class II Groups E, F & G NEMA Types 7 or 9		Open Type With Square Buttons			
		Volts	Maximum Horsepower	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price		
																Poly-Phase	Single Phase
2	M-0	115-230	1	BG-1	\$20.	BW-1	\$52.	BW-11	\$52.	BA-1	\$27.	BR-1	\$66.	BO-1	\$18.		
		115-230	1½	CG-1	25.	CW-1	64.	CW-11	64.	CA-1	32.	CR-1	78.	CO-1	23.		
		115-230	3	CG-2	36.	CW-2	78.	CW-12	78.	CA-2	43.	CR-2	90.	CO-2	34.		
3	M-0	110-208-220-440-550	1½	BG-2	25.	BW-2	57.	BW-12	57.	BA-2	32.	BR-2	71.	BO-2	23.		
		110-208-220-440-550	2	CG-3	30.	CW-3	69.	CW-13	69.	CA-3	37.	CR-3	83.	CO-3	28.		
		110-208-220-440-550	3														

600 VOLTS MAX.				CLASS 2511										REVERSING			
No. of Poles	Size	Volts	Maximum Horsepower	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price		
																3	M-0
208-220-440-550	5	CG-1	90.	CW-1	154.	CW-11	154.			CR-1	163.	CO-1	84.				

600 VOLTS MAX.				CLASS 2512										★TWO-SPEED			
No. of Poles	Size	Volts	Maximum Horsepower	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price		
																3	M-0
208-220-440-550	5	CG-1	90.	CW-1	154.	CW-11	154.			CR-1	163.	CO-1	84.				



Class 2510 General Purpose Enclosure with Pilot Light Installed



Class 2510 Type BW-12



Class 2510 NEMA 12 Industrial Use Enclosure



Drum Switch in General Purpose Enclosure

CLASS 2601 REVERSING DRUM SWITCHES

Class 2601 reversing drum switches may be used for across-the-line starting and the reversing of ac polyphase, ac single phase, or dc motors. They are compact and inexpensive but ruggedly constructed.

The Type AG-3 breaks two lines to the motor; Types AG-1, AG-2 and BG-1 break three lines. These switches do not provide overload protection or low voltage protection. Maintained contact operation is standard. "Spring Return to Off" operation can be obtained by unscrewing the handle, removing the hub, and turning the shaft 180°. The hub and handle can then be replaced.

600 VOLTS MAX. A-C, 250 VOLTS MAX. D-C

Size	Internal Switching	3 Phase Wiring Diagram	Ratings			General Purpose Enclosure NEMA Type 1★	
			Volts	Maximum Horsepower		Type	Price
				AC Single Phase	AC Poly-Phase			DC
...	For. Off Rev.	T ₁ L ₁ T ₂ L ₂ T ₃ L ₃	115 230 110 220	1 1 1 1	... ... ... ...	AG-3	\$11.
...	For. Off Rev.	T ₁ L ₁ T ₂ L ₂ T ₃ L ₃	115 230 110 220 440-550	1½ 2 1	... ... ... ... ...	AG-1	\$11.
D-0	Rev. Off For.	T ₁ L ₁ T ₂ L ₂ T ₃ L ₃	115 230 110 220 440-550	1 1½ 2	... ... 1½ 2 ...	AG-2	\$11.
D-1	Rev. Off For.	T ₁ L ₁ T ₂ L ₂ T ₃ L ₃	115 230 110 220 440-550	1½ 3 5	... ... 3 5 7½	BG-1	\$30.

★It is recommended that these drum switches be mounted in the vertical position.

ORDERING INFORMATION REQUIRED: 1. Class and Type number of drum switch.
 2. Horsepower, voltage and phase of motor.

The above items are subject to 15% Discount.

**SQUARE D AC MAGNETIC STARTERS — CLASS 8536 — LINE VOLTAGE TYPE
MELTING ALLOY OVERLOAD RELAYS**

Line voltage magnetic starters are used when full starting torque and the resulting current inrush is not objectionable. Motor overload protection is provided by melting alloy type thermal overload relays. Type S starters should be used where small size and increased flexibility are required.

TYPE S		COMPACT SIZES 0-2 MAGNETIC STARTERS										
50-60 CYCLES										600 VOLTS MAX.		
No. of Poles	NEMA Size	Maximum Ratings			General Purpose Enclosure NEMA Type 1		Water-tight Stainless Steel Enclosure NEMA Type 4		Dust-tight Industrial Use Enclosure NEMA Type 12		Open Type	
		Volts	Max. HP†		Type	Price	Type	Price	Type	Price	Type	Price
Poly-phase	Single Phase											
3 Pole Poly-phase	0	110 208-220 440-550	2 3 5	1 2 ...	SBG-2	\$39.	SBW-12	\$74.	SBA-2	\$51.	SBO-2	\$37.
	1	110 208-220 440-550	3 7½ 10	2 3 ...	SCG-3	44.	SCW-13	80.	SCA-3	56.	SCO-3	42.
	2	110 208-220 440-550	7½ 15 25	3 7½ ...	SDG-1	84.	SDW-11	156.	SDA-1	106.	SDO-1	74.
4 Pole Poly-phase	0	220 440-550	3 5	...	SBG-3	50.	SBW-13	89.	SBA-3	62.	SBO-3	47.
	1	220 440-550	7½ 10	...	SCG-4	56.	SCW-14	94.	SCA-4	68.	SCO-4	53.
	2	220 440-550	15 25	...	SDG-2	103.	SDW-12	207.	SDA-2	125.	SDO-2	93.



Class 8536 Type SCO-3 Form J Size 1, 3 pole starter with three thermal units.



Class 8536 Type SCG-3 Form J Size 1, 3 pole starter with three thermal units in NEMA 1 enclosure.

SIZES 00-5 MAGNETIC STARTERS*

600 VOLTS MAX.										25-60 CYCLES★								
No. of Poles	NEMA Size	Maximum Ratings		General Purpose Enclosure NEMA Type 1		Water-tight Enclosure NEMA Type 4			Dust-tight Industrial Use Enclosure NEMA Type 12 (Type 3⊕)		For Hazardous Locations							
		Volts	Max. HP			Std.	Stainless Steel	Class II Groups E, F & G NEMA Type 9			Class I Groups C & D NEMA Type 7 Bolted Construction		Spin Top Class I Groups C & D Class II Groups E, F & G NEMA Type 7-9		Open Type			
				Poly-phase	Single Phase			Type	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
2	00	115 230	1 ½	AG-1	\$30.50	Use Size 0			Use Size 0		Use Size 0		Use Spin Top Size 0		Use Size 0		AO-1	\$28.50
	0	115 230	1 2	BG-1	34.	BW-1	BW-11	\$ 69.	BA-1	\$ 46.	BE-1	\$ 69.	Use Size 1		BR-1	\$135.	BO-1	32.
	1	115 230	2 3	CG-1	39.	CW-1	CW-11	75.	CA-1	51.	CE-1	75.	CR-1	\$141.	CR-5	141.	CO-1	37.
	1-P	115 230	3 5	CG-2	50.	CW-2	CW-12	86.	CA-2	62.	CE-2	86.	CR-2	152.	CR-6	152.	CO-2	48.
	2	115 230	3 7½	DG-6	76.	DW-6	DW-16	148.	DA-6	98.	DE-6	182.	DR-6	226.	DR-7	226.	DO-6	66.
3	00	110 208-220 440-550	¾ 1½ 2	AG-2	\$ 32.	Use Size 0			Use Size 0		Use Size 0		Use Spin Top Size 0		Use Size 0		AO-2	\$ 30.
	0	110 208-220 440-550	2 3 5	BG-2*	39.	BW-2	BW-12	\$ 74.	BA-2	\$ 51.	BE-2	\$ 74.	Use Spin Top		BR-2	\$140.	BO-2	37.
	1	110 208-220 440-550	3 7½ 10	CG-3*	44.	CW-3	CW-13	80.	CA-3	56.	CE-3	80.	CR-3	\$146.	CR-7	146.	CO-3	42.
	2	110 208-220 440-550	7½ 15 25	DG-1	84.	DW-1	DW-11	156.	DA-1	106.	DE-1	190.	DR-1	234.	DR-3	234.	DO-1	74.
	3	110 208-220 440-550	15 30 50	EG-1	138.	EW-1	EW-11	240.	EA-1	164.	EE-1	284.	ER-1	350.	ER-3	350.	EO-1	118.
	4	208-220 440-550	50 100	FG-1	308.	FW-1	FW-11	482.	FA-1	394.	FE-1	556.	FR-1	583.	FR-1	583.	FO-1	266.
4	5	208-220 440-550	100 200	GG-1	684.	GW-1	GW-11	904.	GA-1	904.	GE-1	1054.	GR-1	1268.	GR-1	1268.	GO-1	607.
	0	220 440-550	3 5	BG-3	\$ 50.	BW-3	BW-13	\$ 89.	BA-3	\$ 62.	BE-3	\$ 89.	Use Size 1		BR-3	\$151.	BO-3	\$ 47.
	1	220 440-550	7½ 10	CG-4	56.	CW-4	CW-14	94.	CA-4	68.	CE-4	94.	CR-4	\$158.	CR-8	158.	CO-4	53.
	2	220 440-550	15 25	DG-2	103.	DW-2	DW-12	207.	DA-2	125.	DE-2	241.	DR-2	309.	DR-2	309.	DO-2	93.
	3	220 440-550	30 50	EG-2	168.	EW-2	EW-12	298.	EA-2	194.	EE-2	342.	ER-2	446.	ER-2	446.	EO-2	150.
	4	220 440-550	50 100	FG-2	404.	FW-2	FW-12	650.	FA-2	520.	FE-2	750.	FR-2	850.	FR-2	850.	FO-2	364.
5	220 440-550	100 200	GG-2	1200.	GW-2	GW-12	1442.	GA-2	1343.	GE-2	1640.	GR-2	1940.	GR-2	1940.	GO-2	1046.	

Prices include two overload relay thermal units. Deduct \$1.50 each if thermal units are omitted.
 †Suitable for NEMA Type 3 applications except where sleet and freezing rain is encountered.
 ★Size 00 available with 50 or 60 cycle coil only.
 *Sizes 6, 7 and 8 also available.

ORDERING INFORMATION REQUIRED

1. Class and Type number.
2. Horsepower, voltage, phase, frequency and full load current of motor.

The above items are subject to 15% Discount.

SQUARE D CLASS 8538 AC SWITCH TYPE COMBINATION MAGNETIC STARTERS
3 POLE LINE VOLTAGE TYPE — 25-60 CYCLES — 600 V MAX.

TYPE S SIZES 0-2

RATINGS			NEMA Size	General Purpose Enclosure NEMA Type 1		Water-tight Enclosure NEMA Type 4			Dust-tight Industrial Use Enclosure NEMA Type 12			For Hazardous Locations Class II, Groups E, F & G NEMA Type 9	
Max. HP Poly-phase	Volts	Fuse Clip Size Amps.		Type	Price	Type	Stainless Steel Type	Price	With External Reset Type	Without External Reset Type	Price	Type	Price
3	208-220	None 30	0	SBG-11 SBG-12	\$ 94. 97.	.....	SBW-11 SBW-12	\$ 190. 193.	SBA-21 SBA-22	SBA-11 SBA-12	\$ 118. 121.	.....	.....
	440-550	None 30	0	SBG-11 SBG-13	94. 99.	.....	SBW-11 SBW-13	190. 195.	SBA-21 SBA-23	SBA-11 SBA-13	118. 123.	.....	.....
5	208-220	None 30 60	1 1	SCG-11 SCG-12 SCG-13	99. 102. 104.	.....	SCW-11 SCW-12 SCW-13	195. 198. 200.	SCA-21 SCA-22 SCA-23	SCA-11 SCA-12 SCA-13	123. 126. 128.	.....	.....
	440-550	None 30	0	SBG-11 SBG-13	94. 99.	.....	SBW-11 SBW-13	190. 195.	SBA-21 SBA-23	SBA-11 SBA-13	118. 123.	.....	.....
7½	208-220	None 30 60	1 1	SCG-11 SCG-12 SCG-13	99. 102. 104.	.....	SCW-11 SCW-12 SCW-13	195. 198. 200.	SCA-21 SCA-22 SCA-23	SCA-11 SCA-12 SCA-13	123. 126. 128.	.....	.....
	440-550	None 30	1	SCG-11 SCG-14	99. 104.	.....	SCW-11 SCW-14	195. 200.	SCA-21 SCA-24	SCA-11 SCA-14	123. 128.	.....	.....
10	208-220	None 30 60 100	2 2 2	SDG-11 SDG-12 SDG-13	155. 159. 171.	.....	SDW-11 SDW-12 SDW-13	303. 307. 319.	SDA-21 SDA-22 SDA-23	SDA-11 SDA-12 SDA-13	189. 193. 205.	.....	.....
	440-550	None 30 60	1 1	SCG-11 SCG-14 SCG-19	99. 104. 106.	.....	SCW-11 SCW-14 SCW-19	195. 200. 202.	SCA-21 SCA-24 SCA-29	SCA-11 SCA-14 SCA-19	123. 128. 130.	.....	.....
15	208-220	None 60 100	2 2 2	SDG-11 SDG-12 SDG-13	155. 159. 171.	.....	SDW-11 SDW-12 SDW-13	303. 307. 319.	SDA-21 SDA-22 SDA-23	SDA-11 SDA-12 SDA-13	189. 193. 205.	.....	.....
	440-550	None 30 60	2 2 2	SDG-11 SDG-16 SDG-14	155. 160. 162.	.....	SDW-11 SDW-16 SDW-14	303. 308. 310.	SDA-21 SDA-26 SDA-24	SDA-11 SDA-16 SDA-14	189. 194. 196.	.....	.....
25	440-550	None 60 100	2 2 2	SDG-11 SDG-14 SDG-15	155. 162. 173.	.....	SDW-11 SDW-14 SDW-15	303. 310. 321.	SDA-21 SDA-24 SDA-25	SDA-11 SDA-14 SDA-15	189. 196. 207.	.....	.....

SIZES 0-5

3	208-220	None 30	0	BG-11 BG-12	\$ 94. 97.	BW-1 BW-2	BW-11 BW-12	\$ 190. 193.	BA-21 BA-22	BA-11 BA-12	\$ 118. 121.	BE-1	\$ 187.
	440-550	None 30	0	BG-11 BG-13	94. 99.	BW-1 BW-3	BW-11 BW-13	190. 195.	BA-21 BA-23	BA-11 BA-13	118. 123.	BE-1	187.
5	208-220	None 30 60	1 1	CG-11 CG-12 CG-13	99. 102. 104.	CW-1 CW-2 CW-3	CW-11 CW-12 CW-13	195. 198. 200.	CA-21 CA-22 CA-23	CA-11 CA-12 CA-13	123. 126. 128.	CE-1	192.
	440-550	None 30	0	BG-11 BG-13	94. 99.	BW-1 BW-3	BW-11 BW-13	190. 195.	BA-21 BA-23	BA-11 BA-13	118. 123.	BE-1	187.
7½	208-220	None 30 60	1 1	CG-11 CG-12 CG-13	99. 102. 104.	CW-1 CW-2 CW-3	CW-11 CW-12 CW-13	195. 198. 200.	CA-21 CA-22 CA-23	CA-11 CA-12 CA-13	123. 126. 128.	CE-1	192.
	440-550	None 30	1	CG-11 CG-14	99. 104.	CW-1 CW-4	CW-11 CW-14	195. 200.	CA-21 CA-24	CA-11 CA-14	123. 128.	CE-1	192.
10	208-220	None 60 100	2 2 2	DG-11 DG-12 DG-13	155. 159. 171.	DW-1 DW-2 DW-3	DW-11 DW-12 DW-13	303. 307. 319.	DA-21 DA-22 DA-23	DA-11 DA-12 DA-13	189. 193. 205.	DE-1	338.
	440-550	None 30 60	1 1	CG-11 CG-14 CG-19	99. 104. 106.	CW-1 CW-4 CW-9	CW-11 CW-14 CW-19	195. 200. 202.	CA-21 CA-24 CA-29	CA-11 CA-14 CA-19	123. 128. 130.	CE-1	192.
15	208-220	None 60 100	2 2 2	DG-11 DG-12 DG-13	155. 159. 171.	DW-1 DW-2 DW-3	DW-11 DW-12 DW-13	303. 307. 319.	DA-21 DA-22 DA-23	DA-11 DA-12 DA-13	189. 193. 205.	DE-1	338.
	440-550	None 30 60	2 2 2	DG-11 DG-16 DG-14	155. 160. 162.	DW-1 DW-6 DW-4	DW-11 DW-16 DW-14	303. 308. 310.	DA-21 DA-26 DA-24	DA-11 DA-16 DA-14	189. 194. 196.	DE-1	338.
25	208-220	None 100 200	3 3 3	EG-11 EG-15 EG-12	256. 266. 288.	EW-1 EW-5 EW-2	EW-11 EW-15 EW-12	514. 524. 546.	EA-21 EA-25 EA-22	EA-11 EA-15 EA-12	300. 310. 332.	EE-1	542.
	440-550	None 60 100	2 2 2	DG-11 DG-14 DG-15	155. 162. 173.	DW-1 DW-4 DW-5	DW-11 DW-14 DW-15	303. 310. 321.	DA-21 DA-24 DA-25	DA-11 DA-14 DA-15	189. 196. 207.	DE-1	338.
30	208-220	None 100 200	3 3 3	EG-11 EG-15 EG-12	256. 266. 288.	EW-1 EW-5 EW-2	EW-11 EW-15 EW-12	514. 524. 546.	EA-21 EA-25 EA-22	EA-11 EA-15 EA-12	300. 310. 332.	EE-1	542.
	440-550	None 100	3	EG-11 EG-13	256. 271.	EW-1 EW-3	EW-11 EW-13	514. 529.	EA-21 EA-23	EA-11 EA-13	300. 315.	EE-1	542.
50	208-220	None 200 400	4 4 4	FG-11 FG-15 FG-12	491. 508. 557.	FW-1 FW-5 FW-2	FW-11 FW-15 FW-12	821. 838. 887.	FA-21 FA-25 FA-22	FA-11 FA-15 FA-12	613. 630. 679.	FE-1	860.
	440-550	None 100 200	3 3 3	EG-11 EG-13 EG-14	256. 271. 292.	EW-1 EW-3 EW-4	EW-11 EW-13 EW-14	514. 529. 550.	EA-21 EA-23 EA-24	EA-11 EA-13 EA-14	300. 315. 336.	EE-1	542.
60	208-220	None 600	5	GG-1 GG-2	1060. 1195.	GW-1 GW-2	GW-11 GW-12	1902. 2037.	GA-21 GA-22	GA-1 GA-2	1356. 1491.	.....	.....
	440-550	None 200	4 4	FG-11 FG-13	491. 512.	FW-1 FW-3	FW-11 FW-13	821. 842.	FA-21 FA-23	FA-11 FA-13	613. 634.	FE-1	860.
100	208-220	None 600	5	GG-1 GG-2	1060. 1195.	GW-1 GW-2	GW-11 GW-12	1902. 2037.	GA-21 GA-22	GA-1 GA-2	1356. 1491.	.....	.....
	440-550	None 200 400	4 4 4	FG-11 FG-13 FG-14	491. 512. 565.	FW-1 FW-3 FW-4	FW-11 FW-13 FW-14	821. 842. 895.	FA-21 FA-23 FA-24	FA-11 FA-13 FA-14	613. 634. 687.	FE-1	860.
125	440-550	None 400	5	GG-1 GG-3	1060. 1096.	GW-1 GW-3	GW-11 GW-13	1902. 1938.	GA-21 GA-23	GA-1 GA-3	1356. 1392.	.....	.....
200	440-550	None 400 600	5 5 5	GG-1 GG-3 GG-4	1060. 1096. 1237.	GW-1 GW-3 GW-4	GW-11 GW-13 GW-14	1902. 1938. 2079.	GA-21 GA-23 GA-24	GA-1 GA-3 GA-4	1356. 1392. 1533.	.....	.....

Prices include two overload relay thermal units. Deduct \$1.50 each if thermal units are omitted. Prices do not include fuses. †HP rating applies only when dual element fuses are used.

The above items are subject to 15% Discount.

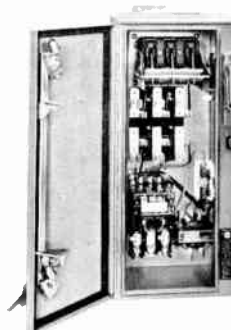
SQUARE D AC CLASS 8539 CIRCUIT BREAKER COMBINATION MAGNETIC STARTERS
LINE VOLTAGE TYPE MELTING ALLOY OVERLOAD RELAYS

25-60 CYCLES					3 POLE					600 VOLTS MAX.					
RATINGS					General Purpose Enclosure NEMA Type 1		Water-tight Enclosure NEMA Type 4			Dust-tight Industrial Use Enclosure Without External Reset NEMA Type 12		For Hazardous Locations			
Max. HP Poly-phase	Volts	NEMA Size	Circuit Breaker *		Type	Price	Standard	Stainless Steel	Price	Type	Price	Spin Top (C) Class I, Groups C & D Class II, Groups E, F & G NEMA Type 7-9		Class II, Groups E, F & G NEMA Type 9	
			Trip Setting	Frame Size								Type	Price	Type	Price
2	208-220	0	15	E	BG-11	\$ 101.	BW-1	BW-11	\$ 197.	BA-11	\$ 125.	BR-11	\$ 224.	BE-1	\$ 205.
	440-550	0	15	F	BG-12	130.	BW-2	BW-12	226.	BA-12	154.	BR-12	248.	BE-2	234.
3	208-220	0	20	E	BG-13	101.	BW-3	BW-13	197.	BA-13	125.	BR-11	224.	BE-3	205.
	440-550	0	15	F	BG-12	130.	BW-2	BW-12	226.	BA-12	154.	BR-12	248.	BE-2	234.
5	208-220	1	30	E	CG-13	106.	CW-3	CW-13	202.	CA-13	130.	CR-7	228.	CE-3	210.
	440-550	0	15	F	BG-12	130.	BW-2	BW-12	226.	BA-12	154.	BR-13	248.	BE-2	234.
7½	208-220	1	50	E	CG-15	106.	CW-5	CW-15	202.	CA-15	130.	CR-7	228.	CE-5	210.
	440-550	1	20	F	CG-14	135.	CW-4	CW-14	231.	CA-14	159.	CR-9	254.	CE-4	239.
10	208-220	2	50	F	DG-12	161.	DW-2	DW-12	309.	DA-12	195.	DR-12	312.	DE-2	312.
	440	1	30	F	CG-16	135.	CW-6	CW-16	231.	CA-16	159.	CR-14	254.	CE-6	239.
	550	1	20	F	CG-14	135.	CW-4	CW-14	231.	CA-14	159.	CR-9	254.	CE-4	239.
15	208-220	2	70	F	DG-20	161.	DW-10	DW-20	309.	DA-20	195.	DR-20	312.	DE-10	312.
	440	2	40	F	DG-17	190.	DW-5	DW-15	338.	DA-15	224.	DR-21	338.	DE-5	338.
	550	2	30	F	DG-16	190.	DW-6	DW-16	338.	DA-16	224.	DR-21	338.	DE-6	338.
20	208-220	3	100	F	EG-11	275.	EW-1	EW-11	533.	EA-11	319.	ER-10	557.	EE-1	557.
	440	2	50	F	DG-17	190.	DW-7	DW-17	338.	DA-17	224.	DR-22	338.	DE-7	338.
	550	2	40	F	DG-18	190.	DW-8	DW-18	338.	DA-18	224.	DR-21	338.	DE-8	338.
25	208-220	3	100	J	EG-12	275.	EW-2	EW-12	533.	EA-12	319.	ER-10	557.	EE-2	557.
	440	2	50	F	DG-17	190.	DW-7	DW-17	338.	DA-17	224.	DR-22	338.	DE-7	338.
	550	2	50	F	DG-19	190.	DW-9	DW-19	338.	DA-19	224.	DR-22	338.	DE-9	338.
30	208-220	3	125	J	EG-19	275.	EW-9	EW-19	533.	EA-19	319.	ER-19	557.	EE-9	557.
	440	3	70	F	EG-13	275.	EW-3	EW-13	533.	EA-13	319.	ER-20	557.	EE-3	557.
	550	3	50	F	EG-14	275.	EW-4	EW-14	533.	EA-14	319.	ER-20	557.	EE-4	557.
40	208-220	4	175	J	FG-11	600.	FW-1	FW-11	930.	FA-11	722.	FR-9	866.	FE-1	866.
	440	3	100	F	EG-15	275.	EW-5	EW-15	533.	EA-15	319.	ER-21	557.	EE-5	557.
	550	3	70	F	EG-16	275.	EW-6	EW-16	533.	EA-16	319.	ER-20	557.	EE-6	557.
50	208-220	4	200	J	FG-12	600.	FW-2	FW-12	930.	FA-12	722.	FR-9	866.	FE-2	866.
	440	3	100	J	EG-17	275.	EW-7	EW-17	533.	EA-17	319.	ER-21	557.	EE-7	557.
	550	3	100	F	EG-18	275.	EW-8	EW-18	533.	EA-18	319.	ER-21	557.	EE-8	557.
60	208-220	5	225	LA	GG-1	1349.	GW-1	GW-11	2191.	GA-1	1569.	GR-10	1843.	GE-1	1843.
	440	4	125	J	FG-13	600.	FW-3	FW-13	930.	FA-13	722.	FR-17	866.	FE-3	866.
	550	4	100	J	FG-14	600.	FW-4	FW-14	930.	FA-14	722.	FR-17	866.	FE-4	866.
75	208-220	5	300	LA	GG-2	1349.	GW-2	GW-12	2191.	GA-2	1569.	GR-10	1843.	GE-2	1843.
	440	4	150	J	FG-15	600.	FW-5	FW-15	930.	FA-15	722.	FR-18	866.	FE-5	866.
	550	4	125	J	FG-16	690.	FW-6	FW-16	930.	FA-16	722.	FR-17	866.	FE-6	866.
100	208-220	5	400	LA	GG-3	1349.	GW-3	GW-13	2191.	GA-3	1569.	GR-10	1843.	GE-3	1843.
	440	4	200	J	FG-17	600.	FW-7	FW-17	930.	FA-17	722.	FR-18	866.	FE-7	866.
	550	4	150	J	FG-18	600.	FW-8	FW-18	930.	FA-18	722.	FR-18	866.	FE-8	866.
125	208-220	6	▲	MA	HG-1	2991.	HW-1	GW-14	3486.	HA-1	3261.	GR-19	1843.	GE-4	1843.
	440	5	250	LA	GG-4	1349.	GW-4	GW-15	2191.	GA-4	1569.	GR-20	1843.	GE-5	1843.
	550	5	200	LA	GG-5	1349.	GW-5	GW-15	2191.	GA-5	1569.	GR-20	1843.	GE-5	1843.
150	208-220	6	▲	MA	HG-1	2991.	HW-1	GW-16	3486.	HA-1	3261.	GR-19	1843.	GE-6	1843.
	440	5	300	LA	GG-6	1349.	GW-6	GW-17	2191.	GA-6	1569.	GR-20	1843.	GE-6	1843.
	550	5	225	LA	GG-7	1349.	GW-7	GW-17	2191.	GA-7	1569.	GR-20	1843.	GE-7	1843.
200	208-220	6	▲	MA	HG-1	2991.	HW-1	GW-18	3486.	HA-1	3261.	GR-19	1843.	GE-8	1843.
	440	5	400	LA	GG-8	1349.	GW-8	GW-19	2191.	GA-8	1569.	GR-19	1843.	GE-8	1843.
	550	5	300	LA	GG-9	1349.	GW-9	GW-19	2191.	GA-9	1569.	GR-19	1843.	GE-9	1843.
300	208-220	7	▲	MA	JG-1	3995.	JW-1	.....	4495.	JA-1	4265.	.....	.....	.....	.....
400	440-550	6	▲	MA	HG-1	2991.	HW-1	.....	3486.	HA-1	3261.	.....	.....	.....	.....
600	440-550	7	▲	MA	JG-1	3995.	JW-1	.....	4495.	JA-1	4256.	.....	.....	.....	.....

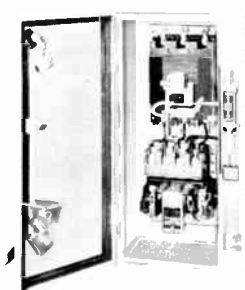
Prices include two overload relay thermal units. Deduct \$1.50 each if thermal units are omitted.
 * Trip settings and frame sizes do not apply to combination starters in Spin Top enclosure. Circuit breakers in Spin Top enclosure are adjustable instantaneous magnetic trip only.
 ★ Standard devices do not include external reset for overload relays. External reset will be furnished as an optional feature, on special order, at no additional charge.
 ▲ Refer to factory, giving motor horsepower, full load current, and locked rotor current or KVA, to select proper breaker trip unit.
 ● These NEMA Type 9 enclosures are of the bolted type construction or of sheet steel construction.
 ◻ For starters of 1½ hp or less in Spin Top enclosures, refer to the nearest Square D field office for Type designation, price the same as the 2 hp starter.

CLASSES 8538 AND 8539 ORDERING INFORMATION REQUIRED

1. Class and Type number.
2. Horsepower, voltage, phase, frequency and full load current of motor.
3. Control voltage and frequency if different from line voltage.



**Class 8538, Type S
 NEMA 12 Enclosure,
 Fusible Type with
 Control Transformer**

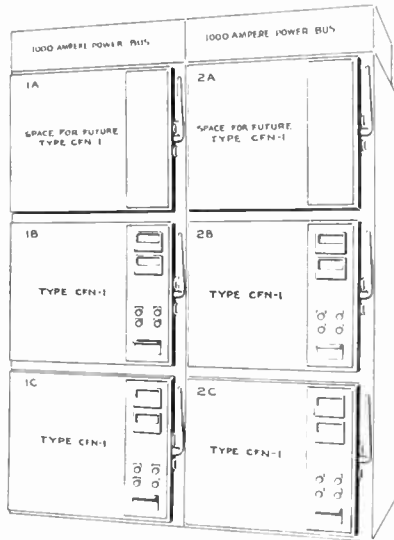


**Class 8539, Size 1
 in NEMA 12
 Enclosure**

The above items are subject to 15% Discount.

SQUARE D HIGH VOLTAGE MAGNETIC STARTERS — CLASS 8198
AIR BREAK • 5000 VOLT MAXIMUM • WITH CURRENT LIMITING FUSES (NEMA E2)

CONTROL CENTER CONSTRUCTION

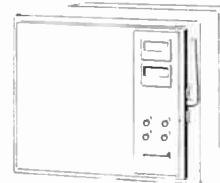


Each vertical section (90" h. x 37" w. x 34" d.) will accommodate any of the following equipment arrangements.

- 3 Full Voltage Starters for squirrel cage motors.
- 1 Reduced Voltage Starter for squirrel cage motor.
- 1 Synchronous and 1 Squirrel cage Starter (both full voltage).

WALL MOUNTING STARTERS

30" High
 37" Wide
 34" Deep



For applications which require only a single full voltage squirrel cage motor starter a Class 8198 Type CFNG-1 starter can be supplied. A separate pull box is provided for convenience during installation.

SQUIRREL CAGE MOTOR STARTERS

FULL VOLTAGE, NON-REVERSING STARTERS						3 PHASE 60 CYCLES					
2200 — 2400 VOLTS						4000 — 4800 VOLTS					
Max. HP	Wall Mtd. w/Pull Box		Motor Control Center Construction			Max. HP	Wall Mtd. w/Pull Box		Motor Control Center Construction		
	Type	Price	Type	Space Factor	Installed Unit Price★		Type	Price	Type	Space Factor	Installed Unit Price★
200 400 700 1000 1500	CFNG-1	\$3300.	CFN-1	1	\$3200.	1250 2500	CFNG-1	\$4750. 5950.	CFN-1	1	\$4650. 5850.
		\$3400.			\$3300.						\$4650.
		\$3600.			\$3500.						\$4750.
		\$4750.			\$4650.						\$5950.
		\$5350.			\$5250.						\$5850.

PRIMARY REACTOR, REDUCED VOLTAGE, NON-REVERSING STARTERS*						3 PHASE 60 CYCLES				
2200 — 2400 VOLTS						4000 — 4800 VOLTS				
Max. HP	Motor Control Center Construction			Max. HP	Motor Control Center Construction					
	Type	Space Factor‡	Installed Unit Price★		Type	Space Factor‡	Installed Unit Price★			
50 75 100 125 150	CRN-1	3	\$7700.	50 75 100 125 150	CRN-1	3	\$8750.			
			\$7800.				\$8750.			
			\$7800.				\$8950.			
			\$7900.				\$8950.			
			\$8100.				\$9150.			
200 300 400 500 600			\$8300.	200			\$9450.			
			\$8600.	300			\$9450.			
			\$8800.	400			\$9950.			
			\$9000.	500			\$10250.			
			\$9200.	600			\$10250.			

SYNCHRONOUS MOTOR STARTERS*

FULL VOLTAGE, NON-REVERSING STARTERS						3 PHASE 60 CYCLES				
2200 — 2400 VOLTS						4000 — 4800 VOLTS				
Max. HP	Motor Control Center Construction				Max. HP	Motor Control Center Construction				
	1.0 PF	0.8 PF	Type	Space Factor‡		Installed Unit Price★	1.0 PF	0.8 PF	Type	Space Factor‡	Installed Unit Price★
250 500 700	200 250 400 900	SFN-1	2	\$5900.	250 800 900 1250	SFN-1	2	\$6750.		
				\$6020.	700			\$6850.		
				\$6120.				\$6850.		
				\$6200.				\$6850.		
1250 1500 1750	1000 1250 1500			\$6850.	1500 1750 3000			\$6850.		
				\$7450.				\$8350.		
				\$7750.				\$8450.		

‡All spaces must be available as adjacent spaces in the same vertical section.

★Does not include charge for vertical sections. Single vertical section has 3 space units and is priced at \$300.

*Prices of reduced voltage squirrel cage motor starters rated from 700 to 2500 hp and reduced voltage synchronous motor starters are available on request.

The above items are subject to 15% Discount.

SQUARE D AC REVERSING MAGNETIC CONTACTORS AND STARTERS

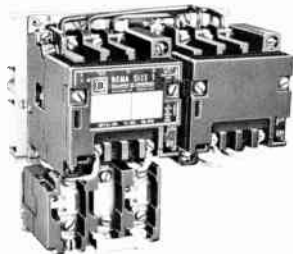
Reversing line voltage magnetic contactors and starters are used to start, stop and reverse ac squirrel cage motors where full motor starting torque will not damage the driven machinery and where the starting inrush current is not objectionable. Motor protection on starters is provided by melting alloy type thermal overload relays. Type S contactors and starters should be used where small size and increased flexibility are required.

TYPE S COMPACT SIZES 0-2, 50-60 CYCLES, 600 VOLTS MAX.																					
CLASS 8702 REVERSING CONTACTORS										CLASS 8736 REVERSING STARTERS											
No. of Poles	NEMA Size	Ratings		Type of Motor	General Purpose Enclosure NEMA Type 1		Open Type			General Purpose Enclosure NEMA Type 1			Water-tight Enclosure NEMA Type 4			Dust-tight Industrial Use Enclosure NEMA Type 12			Open Type		
		Volts	Max. HP		Horizontal Type	Price	Vertical Type	Horizontal Type	Price	Vertical Type	Horizontal Type	Price	Standard	Stainless Steel	Price	Type	Price	Vertical Type	Horizontal Type	Price	
2 Pole Single Phase	0	115 230	1 2	Single Phase 3-Wire	SBG-1	\$ 74.	SB0-1	\$ 70.	SBG-1	\$ 78.	SBW-11	\$124.	SBA-1	\$ 96.	SB0-1	\$ 74.					
	1	115 230	2 3		SCG-2	86.	SCO-2	80.	SCG-2	90.	SCW-11	154.	SCA-1	108.	SCO-2	84.					
3 Pole Single Phase	0	115 230	1 2	4-Wire Rep.-Ind.	SBG-2	76.	SB0-2	72.	SBG-2	80.	SBW-12	126.	SBA-2	98.	SB0-2	76.					
		115 230	2 3	4-Wire Split Phase	SBG-3	76.	SB0-3	72.	SBG-3	80.	SBW-13	126.	SBA-3	98.	SB0-3	76.					
	1	115 230	2 3	4-Wire Rep.-Ind.	SCG-4	88.	SCO-4	82.	SCG-4	92.	SCW-12	156.	SCA-2	110.	SCO-4	86.					
		115 230	2 3	4-Wire Split Phase	SCG-6	88.	SCO-6	82.	SCG-6	92.	SCW-13	156.	SCA-3	110.	SCO-6	86.					
3 Pole Poly-phase	0	110 208-220 440-550	2 3 5	3 Phase	SBG-4	76.	SB0-4	72.	SBG-4	84.	SBW-14	130.	SBA-4	102.	SB0-4	80.					
	1	110 208-220 440-550	3 7½ 10		SCG-8	88.	SCO-8	82.	SCG-8	96.	SCW-14	160.	SCA-4	114.	SCO-8	90.					
	2	110 208-220 440-550	7½ 15 25		SDG-2	172.	SD0-2	156.	SDG-2	184.	SDW-11	288.	SDA-1	214.	SD0-2	168.					

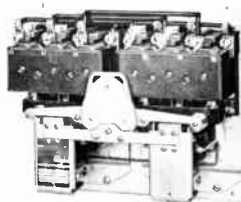
SIZES 00-5*, 25-60 CYCLES, 600 VOLTS MAX.

2 Pole Single Phase	00	115 230	¼ 1	Single Phase 3-Wire	AG-1	\$ 62.	A0-1	\$ 58.	AG-1	\$ 68.	AW-1	AW-11	\$112.	Use NEMA Size 0	A0-1	\$ 62.				
	0	115 230	1 2		BG-1	74.	BO-9	BO-1	70.	BG-7	BG-1	78.	BW-1	BW-11	124.	BA-1	\$ 96.	BO-7	BO-1	74.
	1	115 230	2 3		CG-2	86.	CO-1	CO-2	80.	CG-1	CG-2	90.	CW-1	CW-11	154.	CA-1	108.	CO-1	CO-2	84.
3 Pole Single Phase	00	115 230	½ 1	4-Wire Rep.-Ind.	AG-2	64.	A0-2	60.	AG-2	68.	AW-2	AW-12	114.	Use NEMA Size 0	A0-2	64.				
		115 230	1 ½	4-Wire Split Phase	AG-3	64.	A0-3	60.	AG-3	68.	AW-3	AW-13	114.	Use NEMA Size 0	A0-3	64.				
	0	115 230	1 2	4-Wire Rep.-Ind.	BG-2	76.	BO-10	BO-2	72.	BG-8	BG-2	80.	BW-2	BW-12	126.	BA-2	98.	BO-8	BO-2	76.
		115 230	1 2	4-Wire Split Phase	BG-3	76.	BO-11	BO-3	72.	BG-9	BG-3	80.	BW-3	BW-13	126.	BA-3	98.	BO-9	BO-3	76.
1	115 230	2 3	4-Wire Rep.-Ind.	CG-4	88.	CO-3	CO-4	82.	CG-3	CG-4	92.	CW-2	CW-12	156.	CA-2	110.	CO-3	CO-4	86.	
	115 230	2 3	4-Wire Split Phase	CG-6	88.	CO-5	CO-6	82.	CG-5	CG-6	92.	CW-3	CW-13	156.	CA-3	110.	CO-5	CO-6	86.	
3 Pole Poly-phase	00	110 208-220 440-550	¾ 1½ 2	3 Phase	AG-4	64.	A0-4	60.	AG-4	72.	AW-4	AW-14	118.	Use NEMA Size 0	A0-4	68.				
	0	110 208-220 440-550	2 3 5		BG-4	76.	BO-12	BO-4	72.	BG-10	BG-4	84.	BW-4	BW-14	130.	BA-4	102.	BO-10	BO-4	80.
	1	110 208-220 440-550	3 7½ 10		CG-8	88.	CO-7	CO-8	82.	CG-7	CG-8	96.	CW-4	CW-14	160.	CA-4	114.	CO-7	CO-8	90.
	2	110 208-220 440-550	7½ 15 25		DG-2	172.	DO-1	DO-2	156.	DG-1	DG-2	184.	DW-1	DW-11	288.	DA-1	214.	DO-1	DO-2	168.
	3	110 208-220 440-550	15 30 50		EG-2	287.	EO-1	EO-2	259.	EG-1	EG-2	305.	EW-1	EW-11	459.	EO-1	371.	EO-1	EO-2	277.
	4	208-220 440-550	50 100		FG-3	698.	FO-1	FO-3	646.	FG-1	FG-3	724.	FW-1	FW-11	996.	FD-1	826.	FO-1	FO-3	672.
5	208-220 440-550	100 200	GG-3	1466.	GO-1	GO-3	1165.	GG-1	GG-3	1551.	GW-1	1771.	GD-1	1771.	GO-1	GO-3	1250.			

*Sizes 6, 7 and 8 also available.



**Class 8736 Type SCO-8
Size 1, 3 pole reversing starter**



**Type DO-2
Size 2 Horizontal
Arrangement**

ORDERING INFORMATION REQUIRED

1. Class and Type number.
2. Horsepower, voltage, phase, frequency and full load current of motor.
3. Control voltage and frequency if different from line voltage.
4. Any special features required.

The above items are subject to 15% Discount.

**SQUARE D CLASS 9001 CONTROL STATIONS
STANDARD DUTY**

Standard duty control stations are designed for use with magnetic motor starters to govern the starting, stopping, or reversing of all types of electric motors. Push buttons are momentary contact unless otherwise indicated. Selector switches are maintained contact.

GENERAL PURPOSE ENCLOSURES

600 VOLTS MAX. AC OR DC

No. of Units	Nameplate Markings and Features	Surface Mounting NEMA Type 1		Flush Mounting without Pullbox▲		Stainless Steel Flush Plate with Pullbox		Molded Neoprene Pendant Type with Mechanical Interlock⊕		Water-tight and Dust-tight Enclosures NEMA Types 4 & 5		For Hazardous Locations Class I, Groups B, C & D or Class II Groups E, F & G NEMA Types 7 & 9	
		Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
1	Start.....	B-32	\$6.	BB-1	\$ 7.50	BF-19	\$11.	.....	.....	BW-46	\$19.	BR-32	\$23.
	Stop.....	B-33	6.	BB-2	7.50	BF-20	11.	.....	.....	BW-47	19.	.....	.....
	Stop (Lockout).....	B-38	9.	BB-3	10.50	.....	.....	.....	.....	BW-48	19.	BR-38	23.
	Hand-Off-Auto (3 Pos. Sel. Switch).....	C-47●	6.	CB-47●	7.50	.....	.....	.....	.....	.....	.....	.....	.....
2	Start-Stop.....	B-30	\$6.	BB-4	\$ 7.50	BF-13	\$11.	B-64YΔ	\$7.50	BW-40	\$19.	.....	.....
	Start-Stop (Mushroom on Stop).....	B-50	9.	BB-10	10.50	.....	.....	.....	.....	BW-50	22.	.....	.....
	Start-Stop (Lockout on Stop).....	B-31	9.	BB-5	10.50	.....	.....	.....	.....	BW-41	19.	BR-31	\$23.
	Forward-Reverse.....	B-34	7.50	BB-6	9.	BF-22	12.50	B-61Y	7.50	BW-42	19.	BR-34	23.
	Up-Down.....	B-35	7.50	BB-7	9.	BF-23	12.50	B-60Y	7.50	BW-43	19.	BR-35	23.
	Open-Close.....	B-36	7.50	BB-8	9.	BF-24	12.50	.....	.....	BW-44	19.	BR-36	23.
	On-Off.....	B-37	7.50	BB-9	9.	BF-25	12.50	B-66YΔ	7.50	BW-45	19.	BR-37	23.
	Start-Stop (Maintained Contact).....	C-41	9.	CB-1	10.50	.....	.....	.....	.....	CW-5	22.	CR-41	23.
	On-Off (Maintained Contact).....	C-42	9.	CB-2	10.50	.....	.....	.....	.....	CW-6	22.	CR-42	23.

● Rated 600 V. AC, 250 V. DC. ▲ Pullbox not available. Δ Without mechanical interlock.
⊕ Other contact sequence available.
⊖ Enclosures are yellow. To order black or red enclosures substitute letter "B" or "R" respectively for letter "Y" in Type No.

HEAVY DUTY

Heavy duty stations are intended for use in the control circuits of magnetic starters or control relays and are available in almost any combination of momentary or maintained contact push button units, selector switches, and indicating lights. Heavy duty stations are well adapted for frequent operation and severe service.

600 VOLTS AC

600 VOLTS DC

No. of Units	Description	Features	General Purpose Surface Mounting NEMA Type 1		General Purpose Flush Mounting Without Pullbox		General Purpose Flush Mounting With Pullbox		Water-tight & Dust-tight NEMA Types 4 and 5†		Class I Groups B, C and D Class II, Groups E, F and G NEMA Types 7 and 9†	
			Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
1	Start.....	Lockout Mushroom Button Mushroom Button Selector Switch Selector Switch	GG-101	\$11.	GF-101	\$11.	GFP-101	\$17.	GW-101	\$23.	GR-101	\$27.
	Stop.....		GG-102	11.	GF-102	11.	GFP-102	17.	GW-102	23.	GR-102	27.
	Stop (Lockout).....		GG-103	14.	GF-103	14.	GFP-103	20.	GW-103	23.	GR-103	27.
	Start.....		GG-107	14.	GF-107	14.	GFP-107	20.	GW-107	26.	GR-107	30.
	Start.....		GG-108	14.	GF-108	14.	GFP-108	20.	GW-108	26.	GR-108	30.
	Off-On.....		GG-119	12.	GF-119	12.	GFP-119	18.	GW-119	24.	GR-119	28.
	For. Rev.....		GG-121	12.	GF-121	12.	GFP-121	18.	GW-121	24.	GR-121	28.
	Jog-Run.....		GG-122	12.	GF-122	12.	GFP-122	18.	GW-122	24.	GR-122	28.
2	Hand-Off-Auto.....	Selector Switch.....	GG-123	\$12.	GF-123	\$12.	GFP-123	\$18.	GW-123	\$24.	GR-123	\$28.
	Start-Stop.....		GG-201	17.	GF-201	17.	GFP-201	23.	GW-201	26.	GR-201	30.
	For. Rev.....		GG-202	17.	GF-202	17.	GFP-202	23.	GW-202	26.	GR-202	30.
	Up-Down.....		GG-203	17.	GF-203	17.	GFP-203	23.	GW-203	26.	GR-203	30.
	Open-Close.....		GG-204	17.	GF-204	17.	GFP-204	23.	GW-204	26.	GR-204	30.
	High-Low.....		GG-205	17.	GF-205	17.	GFP-205	23.	GW-205	26.	GR-205	30.
	Start-Stop.....		GG-206	20.	GF-206	20.	GFP-206	26.	GW-206	26.	GR-206	30.
	On-Off.....		GG-210	17.	GF-210	17.	GFP-210	23.	GW-210	26.	GR-210	30.

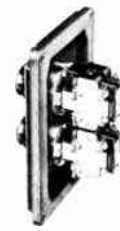
† NEMA Type 4, 5, 7 and 9 stations as standard have provision for padlocking the "Stop" button in the depressed position.



**Type B-30
Standard Duty
Control Station**



**Heavy Duty
General Purpose
Surface
Control Station**



**Type TZ-21 Type TY-21
Heavy Duty Oil-Tight
Control Stations**



HEAVY DUTY OIL-TIGHT CONTROL STATIONS

NEMA 12 heavy duty oil-tight control stations are available for surface or flush mounting. Completely assembled stations can be supplied, or enclosures and various control units can be purchased for assembly as control stations.

STANDARD FACTORY ASSEMBLED STATIONS — NEMA 12

No. of Units	Nameplate Markings	Features	Surface Mounting Type		Flush Mounting Type	
			Type	Price	Type	Price
1	Start.....	Mushroom Button Mushroom Button Selector Switch Selector Switch	TY-11	\$16.	TZ-11	\$12.
	Start.....		TY-12	19.	TZ-12	15.
	Stop.....		TY-13	16.	TZ-13	12.
	Stop.....		TY-110	17.	TZ-110	13.
	Auto-Off-Hand.....		TY-111	17.	TZ-111	13.
2	Start-Stop.....	Mushroom on Stop Lockout on Stop Up-Down Maintained Contact	TY-21	\$23.	TZ-21	\$18.
	Start-Stop.....		TY-22	26.	TZ-22	21.
	Start-Stop.....		TY-23	26.	TZ-23	21.
	Up-Down.....		TY-25	23.	TZ-25	18.
	Start-Stop.....		TY-27	23.	TZ-27	18.

**NEMA TYPE 12 INDUSTRIAL USE ENCLOSURES
FOR ASSEMBLY OF STATIONS BY USER**

No. of Units	Enclosure Only		Cover Plate Only	
	Type	Price	Type	Price
1	KY-1	\$10.	KZ-11	\$ 6.
2	KY-2	11.	KZ-21	6.
3	KY-3	13.	KZ-31	7.
4	KY-4	16.	KZ-41	10.
6	KY-6	20.	KZ-6	14.
9	KY-9	28.	KZ-9	19.
12	KY-12	35.	KZ-12	27.
16	KY-16	45.	KZ-16	37.

ORDERING INFORMATION REQUIRED FOR USER ASSEMBLED STATIONS: Specify Class and Type number shown above. Submit sketch showing all control units in their desired location. (Forms for this purpose are available from Square D field offices.) Select control units from the following two pages.

The above items are subject to 15% Discount.

SQUARE D CLASS 9001 HEAVY DUTY OIL-TIGHT CONTROL UNITS

CONTACT BLOCKS

Type K contact blocks can be mounted side by side and in tandem for increased flexibility. Only one Type T contact block can be mounted on an operator.



Type KA-1

TYPE K					
600 VOLTS AC OR DC MAX.					
Symbol	Type	Price	Symbol	Type	Price
	KA-1	\$3.00		Order Two Type KA-1	\$6.00
	KA-2	1.50		Order Two Type KA-2	3.00
	KA-3	1.50		Order Two Type KA-3	3.00



Type TA

TYPE T			
600 VOLTS AC OR DC MAX.			
Type	Price	Type	Price
TA	\$3.	TB	\$6.
A1		A1 B1	
A2		B2	
TA-1	1.50	TC	3.
		A1 B1	
TA-2	1.50	TD	3.
		A2 B2	

PUSH BUTTON OPERATORS

Description	Color of Button Insert	Operator Only (Without Contact Block)		Description	Color of Button Insert	Operator Only (Without Contact Block)	
		Type	Price★			Type	Price★
Half Guard	All Colors	●TR-50	\$3.	Without Guard	All Colors	●TR-53	\$3.
	Black	TR-1	3.		Black	TR-13	3.
	Red	TR-2	3.		Red	TR-14	3.
	Green	TR-15	3.		Green	TR-58	3.
	Brown	TR-16	3.		Brown	TR-46	3.
	Yellow	TR-17	3.		Yellow	TR-47	3.
	Orange	TR-18	3.		Orange	TR-48	3.
	Blue	TR-19	3.		Blue	TR-49	3.
	Full Guard	All Colors	●TR-51		3.	1 1/4" Diameter Mushroom Button	Black	TR-3	6.
Black		TR-6	3.	Red	TR-4		6.
Red		TR-7	3.	Green	TR-20		6.
Green		TR-30	3.	Brown	TR-21		6.
Brown		TR-31	3.	Yellow	TR-22		6.
Yellow		TR-32	3.	Orange	TR-23		6.
Orange		TR-33	3.	Blue	TR-24		6.
Blue		TR-34	3.				
Extended Guard	All Colors	●TR-52	3.	2 1/4" Diameter Mushroom Button	Black	TR-10	6.
	Black	TR-35	3.		Red	TR-11	6.
	Red	TR-36	3.		Green	TR-25	6.
	Green	TR-37	3.		Brown	TR-26	6.
	Brown	TR-38	3.		Yellow	TR-27	6.
	Yellow	TR-39	3.		Orange	TR-28	6.
	Orange	TR-40	3.		Blue	TR-29	6.
	Blue	TR-41	3.				



Push Button with Half Guard

● CDLOR INSERTS FOR PUSH BUTTONS (Orders must specify Min. quantity of 10 or multiple of 10 in any one color)

Color	Type	Price Each	Min. Order Qty.
Black	T-6BK	\$.05	10
Red	T-6RD	.05	10
Green	T-6GN	.05	10
Brown	T-6BN	.05	10
Yellow	T-6YW	.05	10
Orange	T-6OE	.05	10
Blue	T-6BE	.05	10

PILOT LIGHTS

***IMPORTANT** — TYPE NUMBERS LISTED IN TABLE MUST BE COMPLETED BY INSERTING APPROPRIATE COLOR CAP CODE LETTER IN PLACE OF ASTERISK (*)

Prices shown include color cap. For simplified stock handling, units are available less color cap. Order by basic Type number (TP1, TP21, TP35, etc.) and deduct \$0.70.

Description	Voltage and Frequency	STANDARD PILOT LIGHTS		PUSH-TO-TEST PILOT LIGHTS		ILLUMINATED PUSH BUTTONS▲					
		With Plastic Color Cap		With Glass Color Cap		With Glass Color Cap		Without GuardⓄ		With Guard	
		Type	Price★	Type	Price★	Type	Price★	Type	Price★	Type	Price★
With Transformer and 6-8 Volt Lamp	110 V., 50-60 Cy.	TP-1*1	\$11.	TP-1*2	\$11.	TP-21*2	\$14.	TP-35*3	\$14.	TP-41*3	\$15.
	208-220 V., 50-60 Cy.	TP-3*1	11.	TP-3*2	11.	TP-23*2	14.	TP-37*3	14.	TP-43*3	15.
	380-440 V., 50-60 Cy.	TP-5*1	11.	TP-5*2	11.	TP-25*2	14.	TP-39*3	14.	TP-45*3	15.
	550 V., 50-60 Cy.	TP-6*1	11.	TP-6*2	11.	TP-26*2	14.	TP-40*3	14.	TP-46*3	15.
With Full Voltage Lamp	6-8 V., AC or DC	TP-12*1	\$ 9.	TP-12*2	\$ 9.	TP-27*2	\$12.	TP-47*3	\$12.	TP-54*3	\$13.
	14 V., AC or DC	TP-13*1	9.	TP-13*2	9.	TP-28*2	12.	TP-48*3	12.	TP-55*3	13.
	18 V., AC or DC	TP-14*1	9.	TP-14*2	9.	TP-29*2	12.	TP-49*3	12.	TP-56*3	13.
	24 V., AC or DC	TP-15*1	9.	TP-15*2	9.	TP-30*2	12.	TP-50*3	12.	TP-57*3	13.
	32 V., AC or DC	TP-16*1	9.	TP-16*2	9.	TP-31*2	12.	TP-51*3	12.	TP-58*3	13.
	120 V., AC or DC●	TP-19*1	9.	TP-19*2	9.						



Type TP-1R1

★ Prices include a Type TN-2 legend plate with standard markings shown in Table 1 on the following page. Deduct \$0.30 if legend plate is not required. For legend plates with special markings, use additions shown in Table 2 on the following page.

Ⓞ Full voltage bulb not recommended for applications where severe vibration is encountered or where long bulb life is essential. For these applications use Type TP-1.

▲ Can be converted to guarded type if desired. Separate guard assembly may be ordered as Class 9001 Type T-2, \$1.00.

● Consist of pilot light plus an integral contact block having one N.O., one N.C. contact operated by pushing on color cap.

The above items are subject to 15% Discount.

SQUARE D CLASS 9001 HEAVY DUTY OIL-TIGHT CONTROL UNITS

SELECTOR SWITCH OPERATORS

2-POSITION SELECTOR SWITCHES

Description		Type	Price ★
2-Position Maintained Contact Operator Only	Standard Knob — Black	TS-1	\$ 4.
	Red	TS-112	4.
	Gloved Hand Knob	TS-21	8.
	Coin Operated	TSA-1	6.
	Key Operated*	TS-1K*	10.
Contact Block Only		KA-1 or TA	3.

SELECTOR SWITCH CONTACT SEQUENCE		Symbol 44	
When used with Type KA-1 or TA Contact Block		LEFT	RIGHT

3-POSITION SELECTOR SWITCHES

Description		Type			Price ★
3-Position Maintained Contact Operator Only	Standard Knob — Black	TS-2	TS-2	TS-4	\$ 4.
	Red	TS-142	TS-152	TS-162	4.
	Gloved Hand Knob	TS-22	TS-23	TS-24	8.
	Coin Operated	TSA-2	TSA-3	TSA-4	6.
	Key Operated*	TS-2K*	TS-3K*	TS-4K*	10.
3-Position Spring Return From Both Sides to Center Operator Only	Standard Knob — Black	TS-8	TS-9	TS-10	6.
	Red	TS-202	TS-212	TS-222	6.
	Gloved Hand Knob	TS-35	TS-36	TS-37	10.
	Key Operated	TS-8K5	TS-9K5	TS-10K5	12.
Contact Block Only		KA-1 or TA	KA-1 or TA	KA-1 or TA	3.

SELECTOR SWITCH CONTACT SEQUENCE		Symbol 48		Symbol 52		Symbol 56	
When used with Type KA-1 or TA Contact Block		LEFT CENTER RIGHT	LEFT CENTER RIGHT	LEFT CENTER RIGHT	LEFT CENTER RIGHT	LEFT CENTER RIGHT	LEFT CENTER RIGHT

*Prices include a Type TN-2 legend plate with standard markings shown in Table 1, below. Deduct \$0.30 if legend plate is not required. For legend plates with special markings, use additions shown in Table 2, below.

*KEY OPERATED SELECTOR SWITCH TYPE NUMBERS MUST BE COMPLETED BY SELECTING APPROPRIATE KEY WITHDRAWAL NUMBER FROM TABLE AT RIGHT. Positions marked "Yes" are those in which key can be withdrawn, thereby locking switch in that position. Insert the appropriate number in place of asterisk shown in type number.

KEY WITHDRAWAL ARRANGEMENT

2-Position Switches				3-Position Switches						
No.	Left	Right	No.	Left	Center	Right	No.	Left	Center	Right
1	Yes	No	4	Yes	No	No	8	Yes	No	Yes
2	No	Yes	5	No	Yes	No	9	No	Yes	Yes
3	Yes	Yes	6	No	No	Yes	10	Yes	Yes	Yes
			7	Yes	Yes	No				

SELECTOR SWITCH COLOR INSERTS

(Orders must specify min. qty. of 10 or multiple of 10 in any one color)

Color	Selector Switch		Price Each
	Type	Min. Order Qty.	
Black	T-4BK	10	\$.10
Red	T-4RD	10	.10
Green	T-4GN	10	.10
Brown	T-4BN	10	.10
Yellow	T-4YW	10	.10
Orange	T-4OE	10	.10
Blue	T-4BE	10	.10

ACCESSORIES AND ATTACHMENTS

Description	Features	Type	Price	
Padlock Attachments	Latch type for push buttons (holds button depressed)	TL-1	\$3.	
	Window in cover (prevents operation of selector switch or push button)	TL-3	3.	
	Latch type for push buttons with Type TU protective cap (holds button depressed), stainless steel	TL-5	6.	
Maintained Contact Attachment	Use with two Type TR push buttons and one contact block to obtain maintained contact	TM-1	3.	
Closing Plate	For covering unused holes in enclosure cover	TO-1	1.	
Protective Caps	Keeps metal shavings and other matter from accumulating on units. Can be used with TN Legend Plate (Not suitable for NEMA 4 water-tight application)	Black	TU-1	2.
		Red	TU-2	2.
		Blue	TU-3	2.
		Brown	TU-4	2.
		Green	TU-5	2.
		Yellow	TU-6	2.



Type TL-1 Lockout Attachment on Type TR-2 Operator



Selector Switch with Standard Knob

LEGEND PLATES

TABLE 1 — SEPARATE LEGEND PLATES

Standard Markings	Type Number		Standard Markings	Type Number	
	TN-2	TN-3		TN-2	TN-3
For Push Button or Pilot Light			For Selector Switch or Selector Push Button		
Blank	TN-200	TN-300	For.-Rev.	TN-239	TN-339
Start	TN-201	TN-301	Hand-Auto.	TN-240	TN-340
Stop†	TN-202	TN-302	High-Low	TN-241	TN-341
On	TN-203	TN-303	Man.-Auto.	TN-243	TN-343
Off†	TN-204	TN-304			
Emerg. Stop†	TN-205	TN-305	Off-On	TN-244	TN-344
Forward	TN-206	TN-306	On-Off	TN-245	TN-345
Reverse	TN-207	TN-307	Open-Close	TN-246	TN-346
Close	TN-208	TN-308	Raise-Lower	TN-247	TN-347
Open	TN-209	TN-309			
Down	TN-210	TN-310	Safe-Run	TN-249	TN-349
Up	TN-211	TN-311	Slow-Fast	TN-250	TN-350
Fast	TN-212	TN-312	Start-Stop	TN-251	TN-351
Slow	TN-213	TN-313	Up-Down	TN-253	TN-353
High	TN-214	TN-314	For.-Off-Rev.	TN-259	TN-359
Low	TN-215	TN-315	Hand-Off-Auto.	TN-260	TN-360
Jog	TN-218	TN-318	Man.-Off-Auto.	TN-262	TN-362
Reset	TN-223	TN-323	Open-Off-Close	TN-263	TN-363
Run	TN-224	TN-324	Up-Off-Down	TN-264	TN-364

Pricing Information

Legend Plates listed in Table 1 \$0.30 each
 TN-2 or TN-3 with special marking \$1.30 each
 TN-200R or TN-300R (Red field) any marking \$1.30 each
 TN-200R or TN-300R (Red field) blank \$0.30 each

TABLE 2 — ADDITIONS FOR DEVICES REQUIRING SPECIAL LEGEND PLATE MARKINGS

Type	Price	Type	Price
TN-2	\$1.00	TN-3	\$1.00
		TN-4	1.30

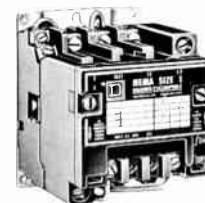
†Red Field.

The above items are subject to 15% Discount.

SQUARE D AC MAGNETIC CONTACTORS — CLASS 8502
WITHOUT OVERLOAD PROTECTION

Magnetic contactors may be used for electric motor loads within the horsepower rating shown, if overload protection is not required, or if other provision is made for it. A holding circuit interlock for three wire control is provided on all of these Class 8502 magnetic contactors. Type S contactors should be used where small size and increased flexibility are required.

TYPE S COMPACT SIZES 0-2 MAGNETIC CONTACTORS													
25-60 CYCLES‡													
600 VOLTS MAX.													
No. of Poles	Size	Horsepower Ratings		Continuous Current Rating Amperes	General Purpose Enclosure NEMA Type 1		Water-tight Enclosure NEMA Type 4			Dust-tight Industrial Use Enclosure NEMA Type 12		Open Type	
		Volts	Max. HP		Type	Price	Standard	Stainless Steel	Price	Type	Price	Type	Price
1 Pole Single Phase	0	115 230	1 2	18	SBG-5	\$ 25.	.....	SBW-15	\$ 60.	SBA-5	\$ 37.	SBO-5	\$ 23.
	1	115 230	2 3	27	SCG-5	30.	.....	SCW-15	66.	SCA-5	42.	SCO-5	28.
2 Pole Single Phase	0	115 230	1 2	18	SBG-1	28.	.....	SBW-11	63.	SBA-1	40.	SBO-1	26.
	1	115 230	2 3	27	SCG-1	33.	.....	SCW-11	69.	SCA-1	45.	SCO-1	31.
	2	115 230	3 7½	45	SDG-1	68.	.....	SDW-11	140.	SDA-1	90.	SDO-1	58.
3 Pole Poly-phase	0	208-220 440-550	3 5	18	SBG-2	31.	.....	SBW-12	66.	SBA-2	43.	SBO-2	29.
	1	208-220 440-550	7½ 10	27	SCG-2	36.	.....	SCW-12	72.	SCA-2	48.	SCO-2	34.
	2	208-220 440-550	15 25	45	SDG-2	72.	.....	SDW-12	144.	SDA-2	94.	SDO-2	62.
4 Pole Poly-phase	0	220 440-550	3 5	18	SBG-3	39.	.....	SBW-13	75.	SBA-3	51.	SBO-3	37.
	1	220 440-550	7½ 10	27	SCG-3	44.	.....	SCW-13	80.	SCA-3	56.	SCO-3	42.
	2	220 440-550	15 25	45	SDG-3	90.	.....	SDW-13	190.	SDA-3	112.	SDO-3	80.



Class 8502 Type SCO-2
Size 1, 3 pole contactor



Class 8502 Type S in NEMA 1 enclosure with **HAND-OFF-AUTO** selector switch and pilot light.

SIZES 00-5 MAGNETIC CONTACTORS *

2 Pole Single Phase	00	115 230	1 ½	9	AG-1	\$ 22.	Use Size 0			Use Size 0		AO-1	\$ 20
	0	115 230	1 2	18	BG-1	28.	BW-1	BW-11	\$ 63.	BA-1	\$ 40.	BO-1	26.
	1	115 230	2 3	27	CG-1	33.	CW-1	CW-11	69.	CA-1	45.	CO-1	31.
	2	115 230	3 7½	45	DG-1	68.	DW-1	DW-11	140.	DA-1	90.	DO-1	58.
	3	115 230	7½ 15	90	EG-1	112.	EW-1	EW-11	214.	EA-1	138.	EO-1	92.
	4	.....	.....	135	FG-1	264.	FW-1	FW-11	438.	FA-1	350.	FO-1	222.
3 Pole Poly-phase	00	208-220 440-550	1½ 2	9	AG-2	\$ 25.	Use Size 0			Use Size 0		AO-2	\$ 23.
	0	208-220 440-550	3 5	18	BG-2	31.	BW-2	BW-12	\$ 66.	BA-2	\$ 43.	BO-2	29.
	1	208-220 440-550	7½ 10	27	CG-2	36.	CW-2	CW-12	72.	CA-2	48.	CO-2	34.
	2	208-220 440-550	15 25	45	DG-2	72.	DW-2	DW-12	144.	DA-2	94.	DO-2	62.
	3	208-220 440-550	30 50	90	EG-2	120.	EW-2	EW-12	222.	EA-2	146.	EO-2	100.
	4	208-220 440-550	50 100	135	FG-2	282.	FW-2	FW-12	456.	FA-2	368.	FO-2	240.
4 Pole Poly-phase	0	220 440-550	3 5	18	BG-3	\$ 39.	BW-3	BW-13	\$ 75.	BA-3	\$ 51.	BO-3	\$ 37.
	1	220 440-550	7½ 10	27	CG-3	44.	CW-3	CW-13	80.	CA-3	56.	CO-3	42.
	2	220 440-550	15 25	45	DG-3	90.	DW-3	DW-13	190.	DA-3	112.	DO-3	80.
	3	220 440-550	30 50	90	EG-3	148.	EW-3	EW-13	278.	EA-3	174.	EO-3	128.
	4	220 440-550	50 100	135	FG-3	376.	FW-3	FW-13	622.	FA-3	492.	FO-3	334.
	5	220 440-550	100 200	270	GG-3	1115.	GW-3	GW-13	1357.	GA-3	1357.	GO-3	961.

CURRENT RATING FOR TUNGSTEN LAMP LOADS†
250 VOLTS OR LESS

Device Type or Size Class 8502 Contactors	Tungsten Lamp Load Rating Amperes
00	5
0	10
1	15
2	30
3	60
4	120
5	240
6	480

†Lighting contactors with full rated contacts are available. See Class 8903.

CURRENT RATINGS FOR FLUORESCENT LAMP LOADS
300 VOLTS OR LESS

The characteristics of fluorescent lamps are such that it is not necessary to derate contactors below their normal 8 hour ampere rating.

ORDERING INFORMATION REQUIRED

1. Class and Type number.
2. Line voltage, phase and frequency.
3. Control voltage and frequency if different than line voltage.
4. Special features or modifications.

‡Size 00 and Type S contactors available with 50 or 60 cycle coil only.
 * Sizes 6, 7 and 8 also available.

The above items are subject to 15% Discount.

SQUARE D 300 VOLT AC MACHINE TOOL RELAYS — CLASS 8501

Class 8501 Type G systems relays feature small size, convertible contacts, modular construction, timer and mechanically held attachments. These relays make their own duct channels and a simple duct cover is available.

★Also available in NEMA 1, General Purpose Enclosure. To order, change Type No. from GO to GG and add \$3.00 to open type price. DC relays are also available.

TYPE G — AC RELAY — OPEN TYPE ★

50-60 CYCLES			RELAY CONTACTS 10 AMPERES, 300 VOLTS MAX.						
No. of Poles on Relay (Instantaneous Contacts)	No. of Poles Normally Open	No. of Poles Normally Closed	Standard Relay		Mechanically Held Relay		Relay Operated Pneumatic Timer*		
			Type	Price	Type	Price	Time Delay After De-energization	Time Delay After Energization	Price
0	.....	.....	.....	.....	.....	.....	GO-00-GD	GO-00-GE	\$36.
2	2	0	GO-20	\$12.	GO-20-GL	\$26.	GO-20-GD	GO-20-GE	40.
	1	1	GO-11	14.	GO-11-GL	28.	GO-11-GD	GO-11-GE	42.
	0	2	GO-02	14.	GO-02-GL	28.	GO-02-GD	GO-02-GE	42.
3	3	0	GO-30	14.	GO-30-GL	28.	GO-30-GD	GO-30-GE	42.
	2	1	GO-21	16.	GO-21-GL	30.	GO-21-GD	GO-21-GE	44.
	1	2	GO-12	16.	GO-12-GL	30.	GO-12-GD	GO-12-GE	44.
	0	3	GO-03	16.	GO-03-GL	30.	GO-03-GD	GO-03-GE	44.
4	4	0	GO-40	16.	GO-40-GL	30.	GO-40-GD	GO-40-GE	44.
	3	1	GO-31	18.	GO-31-GL	32.	GO-31-GD	GO-31-GE	46.
	2	2	GO-22	18.	GO-22-GL	32.	GO-22-GD	GO-22-GE	46.
	1	3	GO-13	18.	GO-13-GL	32.	GO-13-GD	GO-13-GE	46.
	0	4	GO-04	18.	GO-04-GL	32.	GO-04-GD	GO-04-GE	46.
6	6	0	GO-60	20.	GO-60-GL	34.	.....	.....	.....
	5	1	GO-51	22.	GO-51-GL	36.	.....	.....	.....
	4	2	GO-42	22.	GO-42-GL	36.	.....	.....	.....
	3	3	GO-33	22.	GO-33-GL	36.	.....	.....	.....
	2	4	GO-24	22.	GO-24-GL	36.	.....	.....	.....
	1	5	GO-15	22.	GO-15-GL	36.	.....	.....	.....
8	8	0	GO-80	24.	GO-80-GL	38.	.....	.....	.....
	7	1	GO-71	26.	GO-71-GL	40.	.....	.....	.....
	6	2	GO-62	26.	GO-62-GL	40.	.....	.....	.....
	5	3	GO-53	26.	GO-53-GL	40.	.....	.....	.....
	4	4	GO-44	26.	GO-44-GL	40.	.....	.....	.....
	3	5	GO-35	26.	GO-35-GL	40.	.....	.....	.....
	2	6	GO-26	26.	GO-26-GL	40.	.....	.....	.....
	1	7	GO-17	26.	GO-17-GL	40.	.....	.....	.....
	0	8	GO-08	28.	GO-08-GL	40.	.....	.....	.....



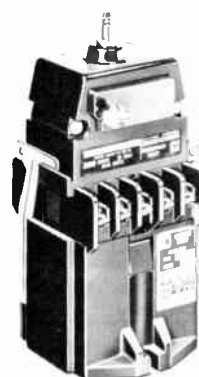
Standard Relay Four Pole



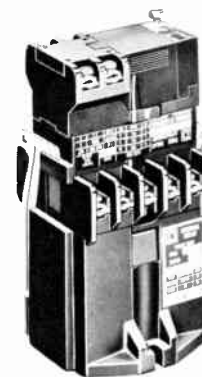
Standard Relay Eight Pole

ATTACHMENTS

Description	AC		DC	
	Type	Price	Type	Price
Mechanically Held Attachment	GL	\$ 14.	GDL	\$ 16.
Pneumatic Timer Attachment — Time Delay after De-energization*	GD	28.	GD	28.
Pneumatic Timer Attachment — Time Delay after Energization*	GE	28.	GE	28.
Solid State Timer Attachment — Time Delay after Energization†	GTO-1	55.	.....	.....
Universal Pole Attachment — ‡	GU-44	10.	.....	.....
Mounting Track:				
12" long for 4 relays	G-4	0.80	G-4	0.80
24" long for 8 relays	G-8	1.00	G-8	1.00
36" long for 12 relays	G-12	1.40	G-12	1.40
48" long for 16 relays	G-16	1.80	G-16	1.80
Basic 4 Pole Relay without Contacts — For use with Pneumatic Timing Attachments to Provide a Timer without Instantaneous Contacts	GO-00	8.	GDO-00	13.



Four Pole Relay with Mechanically Held Attachment



Four Pole Relay with Timer Attachment



Universal Pole Attachment



Mounting Track

*Relay operated pneumatic timers or timing attachments have a timing range of .2 seconds to 1 minute with an accuracy of within ± 15% of timer setting. Type GD timer attachment can be converted to Type GE or vice versa in the field without any additional parts. Contacts are single pole, double throw and must be used on circuits of same polarity. Pneumatic timer attachment fits 2, 3 and 4 pole ac relays. When adding a pneumatic timer attachment to a standard relay, the relay coil must be changed from a 2-4 pole coil to a 6-8 pole coil. DC relay operated timers must be factory assembled.

†Solid state timer attachment has a timing range of from .2 seconds to 30 seconds with an accuracy of ± 2%.

‡The dc mechanically held attachment has intermittent rated coil. Basic relay must have one extra normally open contact which must be wired in series with the latch attachment coil.

‡When universal pole attachment is added to a 2, 3 or 4 pole relay, an 8 pole coil must be used.

ORDERING INFORMATION REQUIRED:

1. Class and Type Number.
2. Voltage and frequency of operating coil.

The above items are subject to 15% Discount.

SQUARE D 600 VOLT AC MACHINE TOOL RELAYS—CLASS 8501

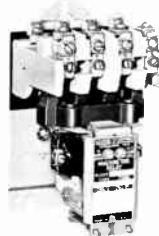
The Class 8501 Type A and BH machine tool relays feature contact reliability, convenient accessibility along with easy contact convertibility.



Type AO-40

**TYPE A — AC RELAY
CONVERTIBLE CONTACTS**

25-60 CYCLES		10 AMPERES		6-600 VOLTS	
No. of Poles N.O.	No. of Poles N.C.	General Purpose Enclosure NEMA Type 1		Open Type	
		Type	Price	Type	Price
2	0	AG-20	\$18.	AO-20	\$15.
3	0	AG-30	21.	AO-30	18.
4	0	AG-40	23.	AO-40	20.
6	0	AG-60	33.	AO-60	30.

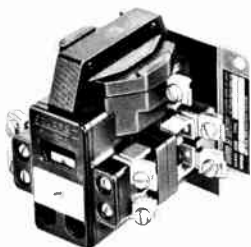


**TYPE BH — AC RELAY
CONVERTIBLE CONTACTS**

25-60 CYCLES		15 AMPERES		6-600 VOLTS	
No. of Poles Norm. Open	No. of Poles Norm. Closed	General Purpose Enclosure NEMA Type 1		Open Type	
		Type	Price	Type	Price
2	0	BHG-20	\$24.	BHO-20	\$21.
3	0	BHG-30	27.	BHO-30	24.
4	0	BHG-40	29.	BHO-40	26.
5	0	BHG-50	38.	BHO-50	35.
6	0	BHG-60	43.	BHO-60	40.
8	0	BHG-80	49.	BHO-80	46.

TYPE D — AC RELAY — FIXED CONTACTS

Class 8501 Type D compact machine tool relays are available with from 2 to 10 contacts in the combinations listed below. This line of long life relays has tilted terminals with pressure wire connectors for ease of wiring. The relay can be disassembled quickly and easily for maintenance by loosening only two screws.



Type DO-22

Description	No. of Contacts Normally Open	No. of Contacts Normally Closed	10 AMPERES		600 VOLTS MAX.		Class 1, Group D Class 2, Groups E, F and G NEMA Type 7-9			
			Open Type		General Purpose Enclosure NEMA Type 1		Water-Tight Enclosure NEMA Type 4			
			Type	Price	Type	Price	Type	Price	Type	Price
2 Pole, Single Throw.....	2	0	DO-20	\$13.	DG-20	\$16.	DW-20	\$33.	DR-20	\$69.
2 Pole, Single Throw.....	0	2	DO-02	16.	DG-02	19.	DW-02	36.	DR-02	72.
2 Pole, Double Throw.....	2	2	DO-22	18.	DG-22	21.	DW-22	54.	DR-22	74.
4 Pole, Single Throw.....	4	0	DO-40	17.	DG-40	20.	DW-40	53.	DR-40	73.
4 Pole, 2 Double Throw.....	4	2	DO-42	23.50	DG-42	27.	DW-42	60.	DR-42	80.
8 Pole.....	4	4	DO-44	23.50	DG-44	27.	DW-44	60.	DR-44	80.
6 Pole.....	6	0	DO-60	25.	DG-60	28.	DW-60	61.	DR-60	81.
8 Pole.....	6	2	DO-62	33.	DG-62	36.	DW-62	69.	DR-62	89.
8 Pole, 2 Double Throw.....	6	4	DO-64	35.	DG-64	38.	DW-64	71.	DR-64	91.
8 Pole.....	8	0	DO-80	30.	DG-80	33.	DW-80	66.	DR-80	86.
8 Pole, 2 Double Throw.....	8	2	DO-82	41.	DG-82	44.	DW-82	77.	DR-82	97.

SQUARE D AC MAGNETIC RELAYS—GENERAL PURPOSE CLASS 8501

TYPE P RELAYS — TOTALLY ENCLOSED CONTACTS



Type PO-8

Each pole of this relay consists of a Class 9007 precision snap switch. Its contacts are totally enclosed making this relay ideal on applications where dust and dirt interfere with the operation of exposed contacts.

25-60 CYCLES 277 or 600 VOLTS MAX.†

No. of Poles	Number of Contacts		General Purpose Enclosure NEMA Type 1		Open Type With Binder Head Screws	
	N.O.	N.C.	Type	Price	Type	Price
1	1	1	PG-1	\$21.	PO-1	\$18.
2	2	2	PG-2	24.	PO-2	21.
3	3	3	PG-3	27.	PO-3	24.
4	4	4	PG-4	30.	PO-4	27.
6	6	6	PG-6	38.	PO-6	35.
8	8	8	PG-8	44.	PO-8	41.

TYPE C — AC RELAY

Class 8501 Type C magnetic relays are used as auxiliary devices for controlling small single phase motors, or other light loads such as electric heaters, pilot lights, or audible signals.



Type CO-1

SINGLE AND DOUBLE POLE

No. of Poles N.O.	No. of Poles N.C.	Max. Contact Volts	Ampere Rating	AC Pilot Duty VA	Maximum Single Phase Horsepower		General Purpose Enclosure NEMA Type 1		Open Type	
					115 V.	230 V.	Type	Price	Type	Price
1	0	277	15	690	¼	1	CG-1	\$ 8.	CO-1	\$ 5.50
2	0	277	10	345	½	½	CG-2 CG-3 CG-4	11. 12.50 12.50	CO-2 CO-3 CO-4	8.50 10. 10.
		277	10	345	½	½				
		277	10	345	½	½				
0	1	277	15	690	¼	1	CG-5	8.50	CO-5	6.
1	0	277	10	690	½	¾	CG-11	9.50	CO-11	7.
1	1	277	10	690	½	¾	CG-12	11.	CO-12	8.50
1	0	277	10	690	½	¾	CG-13	10.	CO-13	7.50
		600	5	690						
1	1	277	10	690	½	¾	CG-14	11.50	CO-14	9.
		600	5	690						

†One, two, three and four pole relays are rated 600 volts max. and the six and eight pole relays are rated 277 volts max. Coils, however, can be supplied for all Type P relays to 600 volts ac.

The above items are subject to 15% Discount.

SQUARE D CLASS 9007 HEAVY DUTY TURRET HEAD LIMIT SWITCHES

OIL-TIGHT, WATER-TIGHT, DUST-TIGHT AND DRIP-PROOF ENCLOSURE — NEMA TYPES 2, 4, 5 AND 12

LEVER-ARM TYPE (WITHOUT LEVER Select lever arms from tables below)†

STANDARD BOX, PLUG-IN, SINGLE POLE AND TWO POLE



Contacts	Direction of Operation	Lever Arm Type Low 5° Pre-Travel — Spring Return		Lever Arm Type Std. 10° Pre-Travel — Spring Return		Light Operating Force Lever Arm Type Spring Return		Lever Type Maintained Contact	
		Type	Price	Type	Price	Type	Price	Type	Price
1 N.O.	CW & CCW	B54A2	\$15.50	B54B2	\$14.50	B54N2	\$17.50	B54C	\$17.50
	CW	B54A	15.50	B54B	14.50	B54N	17.50		
	CCW	B54A1	15.50	B54B1	14.50	B54N1	17.50		
2 N.O.	CW & CCW	B62A2	18.50	B62B2	17.50			B62C	20.50
	CCW	B62A	18.50	B62B	17.50				
★	CCW	B62A1	18.50	B62B1	17.50				
1 N.O.-1 N.C. CW		B64A2	19.50	B64B2	18.50				
1 N.O.-1 N.C. CCW									



Cast Lever Arm

STANDARD BOX, NON-PLUG-IN, SINGLE POLE AND TWO POLE



Contacts	Direction of Operation	Lever Arm Type Low 5° Pre-Travel — Spring Return		Lever Arm Type Std. 10° Pre-Travel — Spring Return		Light Operating Force Lever Arm Type Spring Return		Lever Type Maintained Contact	
		Type	Price	Type	Price	Type	Price	Type	Price
1 N.O.	CW & CCW	B53A2	\$15.50	B53B2	\$14.50	B53N2	\$17.50	B53C	\$17.50
	CW	B53A	15.50	B53B	14.50	B53N	17.50		
	CCW	B53A1	15.50	B53B1	14.50	B53N1	17.50		
2 N.O.	CW & CCW	B61A2	18.50	B61B2	17.50			B61C	20.50
2 N.C.	CW	B61A	18.50	B61B	17.50				
	CCW	B61A1	18.50	B61B1	17.50				
1 N.O.-1 N.C. CW		B63A2	19.50	B63B2	18.50				
1 N.O.-1 N.C. CCW									



Forked Arm

COMPACT BOX, PLUG-IN, SINGLE POLE



Contacts	Direction of Operation	Lever Arm Type Low 5° Pre-Travel — Spring Return		Lever Arm Type Std. 10° Pre-Travel — Spring Return		Light Operating Force Lever Arm Type Spring Return		Lever Type Maintained Contact	
		Type	Price	Type	Price	Type	Price	Type	Price
1 N.O.	CW & CCW	B52A2	\$15.50	B52B2	\$14.50	B52N2	\$17.50	B52C	\$17.50
	CW	B52A	15.50	B52B	14.50	B52N	17.50		
	CCW	B52A1	15.50	B52B1	14.50	B52N1	17.50		



Adjustable Length Lever Arm

COMPACT BOX, NON-PLUG-IN, SINGLE POLE



Contacts	Direction of Operation	Lever Arm Type Low 5° Pre-Travel — Spring Return		Lever Arm Type Std. 10° Pre-Travel — Spring Return		Light Operating Force Lever Arm Type Spring Return		Lever Type Maintained Contact	
		Type	Price	Type	Price	Type	Price	Type	Price
1 N.O.	CW & CCW	B51A2	\$15.50	B51B2	\$14.50	B51N2	\$17.50	B51C	\$17.50
	CW	B51A	15.50	B51B	14.50	B51N	17.50		
	CCW	B51A1	15.50	B51B1	14.50	B51N1	17.50		



One Way Lever Arm

† Many other types of operators also available.

★ Nylon wheel on slider assembly can be rotated to provide sequencing or overlapping contacts.

☛ Direction of operation can be converted by removing turret head and moving cam pins to proper holes as shown on Service Bulletin 285AS furnished with each switch.

OPERATING LEVER ARMS ONLY — FOR TYPES AW AND B LIMIT SWITCHES



Rod Type Lever Arm

CAST LEVER ARM

Length of Arm	Roller							
	Standard* 3/8" Dia. 1/4" Wide		Standard* 3/8" Dia. 3/8" Wide		Standard* 3/8" Dia. 1/2" Wide		Nylon 3/8" Dia. 1/4" Wide	
	Type	Price	Type	Price	Type	Price	Type	Price
3/8"	AA-1	\$2.50	AA-2	\$2.50	.....	.....	.....	.....
1 1/8"	BA-1	1.50	BA-2	2.50	BA-11	\$1.50	BA-18	\$1.50
1 1/2"	MA-1	1.50	MA-2	2.50	MA-11	1.50	MA-18	1.50
2"	CA-1	2.50	CA-2	2.50	CA-11	2.50	CA-18	2.50
2 1/2"	DA-1	2.50	DA-2	2.50	DA-11	2.50	DA-18	2.50
3"	EA-1	2.50	EA-2	2.50	EA-11	2.50	EA-18	2.50

FORKED ARM

Roller Position	Standard* 3/8" Dia. 1/4" Wide Roller	
	Type	Price
Rollers on Same Side	LA-1	\$2.50

ROD TYPE LEVER ARM

Length	Type	Price
10"	FA-1	\$2.50

ADJUSTABLE LENGTH LEVER ARM

Description	Standard* 3/8" Dia. 1/4" Wide		Nylon 3/8" Dia. 1/4" Wide	
	Type	Price	Type	Price
Non-bendable	HA-1	\$2.50	HA-4	\$2.50
Bendable	HA-5	2.50	HA-8	2.50

ONE-WAY ROLLER LEVER ARM

1 1/4" Dia. — 1/4" Wide Roller — 1 3/8" Length†	
Type	Price
BA-3	\$4.50

*Standard roller is hardened, oil-impregnated sintered iron.

The above items are subject to 15% Discount.

SQUARE D CLASS 9007 TYPE A LIMIT SWITCHES
OIL-TIGHT, WATER-TIGHT, DUST-TIGHT AND DRIP-PROOF ENCLOSURE — NEMA TYPES 2, 4, 5 AND 12

SINGLE POLE, DOUBLE THROW, SEPARATE CIRCUIT

Description	Type of Operator		Surface Mounted						Open Type					
	Roller	Length of Arm	Non-Plug-in				Plug-in		Flush Mounted Non-Plug-in		Non-Plug-in		Plug-in	
			Standard Box		Deep Box		Type	Price	Type	Price	Type	Price	Type	Price
			Type	Price	Type	Price								
Lever Type Basic Switch only	▲	▲	AW-12	\$14.50	AW-14	\$14.50	AW-16	\$14.50	AF-12	\$13.50	AO-12	\$12.50	AO-16	\$12.50
Roller Plunger Type	3/8" Dia. 1/8" Wide		AW-32	17.	AW-34	17.	AW-36	17.	AF-32	16.	AO-32	15.	AO-36	15.
Push Rod Plunger Type	None		AW-42	16.	AW-44	16.	AW-46	16.	AF-42	15.	AO-42	14.	AO-46	14.
Duplex Switch Lever Type w/Arms	3/8" Dia. 1/4" Wide	1 3/8"	AAW-1	36.					AAF-1	31.				
Duplex Switch Push Rod Type	None		AAW-5	36.					AAF-5	31.				

TWO POLE, DOUBLE THROW, SEPARATE CIRCUIT

Description	Type of Operator		Surface Mounted				Flush Mounted		Open Type			
	Roller	Length of Arm	Non-Plug-in		Plug-in		Non-Plug-in		Non-Plug-in		Plug-in	
			Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
			Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
Lever Type Basic Switch only	▲	▲	AW-18	\$17.50	AW-19	\$17.50	AF-18	\$16.50	AO-18	\$15.50	AO-19	\$15.50
Lever Type Basic Switch Only in Duplex Box	▲	▲	AW-20	23.50								
Roller Plunger Type	3/8" Dia. 1/8" Wide		AW-38	20.	AW-39	20.	AF-38	19.	AO-38	18.	AO-39	18.
Push Rod Plunger Type	None		AW-48	19.	AW-49	19.	AF-48	18.	AO-48	17.	AO-49	17.
Duplex Switch Lever Type	▲	▲	AAW-4	39.								

‡ 2 N.O. contacts only when switch is operated in clockwise direction. 2 N.C. contacts only when switch is operated in counterclockwise direction. Plunger types have 2 N.O. contacts only.
 ▲ See previous page for listing of operating lever arms.

BASIC CONTACT MECHANISMS WITH SPECIAL OPERATORS

Type of Operator	Contact Arrangement	Type	Price	Type of Operator	Contact Arrangement	Type	Price	
None (Basic Contact Mechanism)	1 N.O. 1 N.C.	AO-1	\$ 2.90	Plunger Type Panel Mounting	1 N.O. 1 N.C.	AP-221	\$ 6.65	
	1 N.O.	AO-2†	2.90		2 N.O. 2 N.C.	CP-221	9.55	
	1 N.C.	AO-6†	2.90		Roller Plunger Type Panel Mounting Non-Oiltight	1 N.O.	AP-321	8.
	2 N.O. 2 N.C.	CO-3†	5.80			1 N.C.	AP-324	8.
	2 N.O.	CO-6†	5.80			2 N.O.	CP-321	11.
	Two Stage 2 N.O. 2 N.C.	CO-7	7.			2 N.C.	CP-324	11.
	Rigid Roller Lever Type	1 N.O.	AB-21 (RH)			4.65	Roller Plunger Type Panel Mounting Oil-tight	1 N.O.	AP-323	8.
1 N.C.		AB-22 (LH)	4.65	1 N.C.	AP-325	8.		
2 N.O.		CB-31 (RH)	7.55	2 N.O.	CP-323	11.		
2 N.C.		CB-32 (LH)	7.55	2 N.C.	CP-325	11.		

† Plug-in version of Type AO-2 is Type AO-6. Plug-in version of Type CO-3 is Type CO-6. These are the basic contact mechanisms of Class 9007 Types AW, AF and AO limit switches.



SQUARE D CLASS 9007 HEAVY DUTY TYPE T LIMIT SWITCHES —
NEMA TYPES 2, 4, 5 AND 12 ENCLOSURE

BASIC SWITCH (Complete with Base Plate Without Operating Arm)

Operating Sequence‡★	Type of Switch	Single Pole Double Throw			
		Surface Mounted		Flush Mounted	
		Type	Price	Type	Price
	Standard	TSA1	\$20.	TBR1	\$29.50
		TSB1	20.		
		TSC1	20.		
		TSD1	20.		
		TSE1	21.		
		TSF1	21.		
TSG1	21.				
	Universal	TUA5	20.	TAR5	29.50
		TUB5	20.		
		TUC5	20.		
		TUD5	20.		
		TUE5	21.		
		TUF5	21.		
TUG5	21.				
	Universal	TUA4	20.	TAR4	29.50
		TUB4	20.		
		TUC4	20.		
		TUD4	20.		
		TUE4	21.		
		TUF4	21.		
TUG4	21.				

‡ Switch mechanism can be adjusted to obtain other contact operating sequences.

***OPERATING SEQUENCE LEGEND TABLE**

	Maintained (Normal) Position	A — "A" Contact Closed
	Spring Return (Tripped) Position	B — "B" Contact Closed
		O — Both Contacts Open

OPERATING LEVER ARMS

Description		Type			Price	
Type of Arm	Length of Arm	Roller Position	3/4" Dia. Roller	1" Dia. Roller		
Straight	1 1/2	Optional	B1	B2	B3	\$ 2.
Straight	2 1/2	Optional	B7	B8	B9	3.
Offset	1 1/2	Inside Offset	C1	C2	C3	3.
		Outside Offset	D1	D2	D3	3.
Offset	1 3/8	Outside Offset	E4	E5	E6	2.
		Inside Offset	F4	F5	F6	2.
90° Forked	1 1/2	Rollers on Same Side	X1	X2	...	7.
Straight	...	Optional	R18	R19	R20	3.
3/8" Rod	1 1/2	None		R16		4.
1/4" Key Stock	1 1/2	None		R17		4.
Ball Bearing	1 1/2	Center		B16		8.
Weld-On	3 1/2	None		G10		1.
1-Way Roller	1 1/2	Outside Offset		D4		10.

SEPARATE BASE PLATES

Style	Mounting Holes	Part Number	Price
A	None	2934-D32-G1	\$1.
B	End	2934-D14-G1	1.
C	Side	2934-D33-G1	1.
D	End*	2934-D34-G1	1.
E	End	2934-D14-G2**	2.
F	Side	2934-D33-G2**	2.
G	End*	2934-D34-G2**	2.

* Mounting hole dimensions correspond to those of Class 9007.
 ** Base plate with manifold.

The above items are subject to 15% Discount.

SQUARE D PRESSURE SWITCHES

INDUSTRIAL APPLICATIONS

For control of pneumatic or hydraulic machines — welders, machine tools, lubricating systems, etc. These SPDT devices are used as piloting controls for magnetic starters. Rating: AC single phase: 115V, 15 Amps; 230V, 10 Amps. DC: 115V, 0.5 Amps; 230V, .25 Amps. NEMA 12 enclosures are cast aluminum. Cast iron NEMA 7 and 9 available.



**9012
ACW**

COMMERCIAL AND DOMESTIC APPLICATIONS

For control of electrically driven water pumps and air compressors. Class 9013 devices cover the important electrical ratings for the direct control of motors in the usual pump and compressor applications. Two pole, opens both lines. Standard 1/4" - 18 NPSF connector. Contacts open on increasing pressure. Diaphragm actuated. NEMA 1 enclosures.



**9013
GHG**

BELLOWS ACTUATED — For use on air, oil, water

Class	Type	Range (falling pressure) psi	Differential	Maximum Allowable	Price Each
9012	ACW-1	1-115	6-30	255	\$26.40
9012	ACW-2	10-300	25-125	600	35.20
9012	ACW-3	1-10	0.5-5	30	30.80
9012	ACW-5	1-75	3-15	100	28.60
9012	ACW-8	20-180	10-30	255	26.40

PISTON ACTUATED — Use only on oil — Range refers to rising pressure

Class	Type	Range	Differential	Maximum Allowable	Price Each
9012	ADW-3	135-1000	35-135	10,000	52.80
9012	ADW-4	400-3000	100-400	10,000	52.80

Class	Type	Cut-out Range psi	Differential	Price Each
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THE PUMPTROL®, perfect replacement switch for any jet, reciprocating or submersible home water pump.

9013	FSG-2 Form P	20-65	10-30	\$ 5.70
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FOR SMALL AIR COMPRESSORS — Complete with Pressure Release Valve

9013	HHG-2 Form X	40-100	17-34	9.70
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FOR STANDARD AIR COMPRESSOR SERVICE — Complete with Release Valve

9013	GHG-2 Form X	60-200	18-40	20.80
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ELECTRICAL RATINGS — HORSEPOWER

	Single Phase		Polyphase			DC		
	115V	230V	220V	440V	550V	32V	115V	230V
FSG, HHG	1	1	1	..	..	1/4	1/4	1/4
GHG	2	3	5	5	5	1/2	1	1



**9035
BW**

SQUARE D FLOAT SWITCHES

Used for the control of electrically driven pumps in liquid level control applications. Class 9035, 9036 and 9037 Float Switches cover the important electrical ratings for the direct control of motors in the usual pumping applications. Class 9035 type BW devices are suitable for most outdoor open tank operations. Unit comes complete with float and rods. Class 9036 Float Switches are for open tank control with sump or standard operation. Float and rod accessories must be purchased separately (see below). Class 9037 controls are primarily used on closed tank condensate pumping applications. Float movement is through a bellows seal. Flange mounted unit comes complete with float and rod.

Class	Type	Enclosure	Type of Operation	Poles	Float Description	On Liquid Rise	Application	Price Each
9035	BW-3	NEMA 4	Float	2	Copper Coated with Brass Rods	Contacts Open	Open Tank — Outdoors	\$102.00
9035	BW-3 Form Z5	NEMA 4	Float	2	Stainless Steel with Stainless Rods	Contacts Open	Open Tank — Outdoors	189.75
9036	FG-1	NEMA 1	Float	2	Order Float Below	Contacts Close	Open Tank — Sump Operation	8.95
9036	DW-1	NEMA 4	Float	2	Order Float Below	Contacts Close	Open Tank — Sump Operation	48.00
9036	KG-7	NEMA 1	Weight	1	Weights & Chain Included	Contacts Close	Home Sump Pump Control has mtg. brkt., 2 cord entrances	5.25
9036	KG-8	NEMA 1	Float	1	Uses Small Float (purchase independently)	Contacts Close	Home Sump Pump Control has mtg. brkt., 2 cord entrances	4.00
9037	GG-4	NEMA 1	Float	2	Copper Coated with Brass Rod	Contacts Close	Closed Tank — Condensate Pump	52.30
9037	GG-4 Form Z5	NEMA 1	Float	2	Stainless Steel with Stainless Rod	Contacts Close	Closed Tank — Condensate Pump	75.20



**9036
KG**

ACCESSORIES FOR CLASS 9036 FLOAT SWITCHES

Class	Type	Description	Price Each
9049	A-6	7" Copper Coated Steel Float, 5 feet of Brass Tubing	\$19.60
9049	A-6S	7" Stainless Steel Float, 5 feet of Stainless Steel Tubing	95.70

ELECTRICAL RATINGS — HORSEPOWER

	Single Phase			Polyphase			DC		
	115V	230V	440/550V	220V	440V	550V	32V	115V	230V
9035 BW	2	3	..	5	5	5	..	1	1
9036 FG	1	1	..	1	..	..	1/4	1/4	1/4
9036 DW	1 1/2	2	..	2	3	1	1/4	1/2	1/2
9036 KG	1/2	1/2	..	..	..	..	1/4	1/4	..
9037 GG	2	3	5	5	5	5	1/2	1	1



**9037
GG**

The above items are subject to 15% Discount.

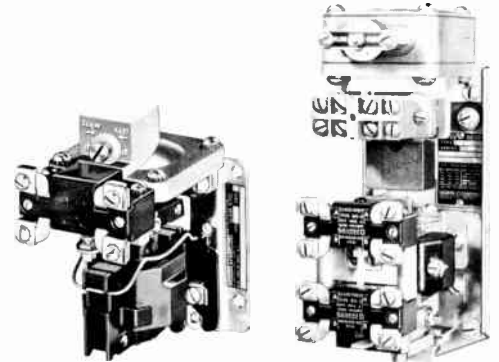
SQUARE D CLASS 9050 PNEUMATIC TIMING RELAYS*

**TYPES A AND H
ADJUSTABLE RANGE — .2 SECOND TO 1 MINUTE**

TYPE A — AC TIMER		50-60 CYCLES 600 VOLTS MAX.			
Type of Operation	General Purpose Enclosure NEMA Type 1		Open Type		
	Type	Price	Type	Price	
Time Delay after De-energization of Relay (Off Delay)	AG-1D	\$41.	AO-1D	\$38.	
Time Delay after Energization of Relay (On Delay)	AG-1E	41.	AO-1E	38.	

TYPE H — DC TIMER		250 VOLTS DC MAX. COIL RATING — 600 VOLTS MAX.			
Type of Operation	General Purpose Enclosure NEMA Type 1		Open Type		
	Type	Price	Type	Price	
Time Delay after De-energization of Relay (Off Delay)	HG-1D	\$46.	HO-1D	\$43.	
Time Delay after Energization of Relay (On Delay)	HG-1E	46.	HO-1E	43.	

*See Class 8501 Section for Type G relay timer attachments.



Type AO-1E

Type BO-23D

**TYPES B AND C
ADJUSTABLE RANGE — .2 SECOND TO 3 MINUTES**

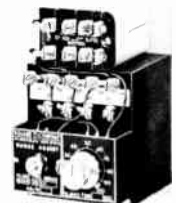
TYPE B — AC TIMER		25-60 CYCLES 600 VOLTS MAX.													
Type of Operation	Dial	Features				SURFACE MOUNTING								Flush Mounting Without Pull Box	
		Time Delay Contacts		Instantaneous Interlocks		General Purpose Enclosure NEMA Type 1		Water-tight & Dust-tight Enclosure NEMA Type 4 & 5-12		For Hazardous Locations NEMA Type 7 & 9		Open Type		Type	Price
		N.O.	N.C.	N.O.	N.C.	Type	Price	Type	Price	Type	Price	Type	Price		
Time Delay after De-energization of Relay (Off Delay)	Without Dial	1	1	...	...	BG-1D	\$60.	BW-1D	\$90.	BR-1D	\$160.	BO-1D	\$50.	BF-1D	\$58.
		1	1	1	1	BG-2D	65.	BW-2D	95.	BR-2D	165.	BO-2D	55.	BF-2D	63.
		1	1	2	?	BG-3D	70.	BW-3D	100.	BR-3D	170.	BO-3D	60.	BF-3D	68.
		2	2	...	...	BG-21D	75.	BW-21D	105.	BR-21D	175.	BO-21D	65.	BF-21D	73.
		2	2	1	1	BG-22D	80.	BW-22D	110.	BR-22D	180.	BO-22D	70.	BF-22D	78.
Time Delay after Energization of Relay (On Delay)	Without Dial	1	1	...	...	BG-1E	\$60.	BW-1E	\$ 90.	BR-1E	\$160.	BO-1E	\$50.	BF-1E	\$58.
		1	1	1	1	BG-2E	65.	BW-2E	95.	BR-2E	165.	BO-2E	55.	BF-2E	63.
		1	1	2	2	BG-3E	70.	BW-3E	100.	BR-3E	170.	BO-3E	60.	BF-3E	68.
		2	2	...	...	BG-21E	75.	BW-21E	105.	BR-21E	175.	BO-21E	65.	BF-21E	73.
		2	2	1	1	BG-22E	80.	BW-22E	110.	BR-22E	180.	BO-22E	70.	BF-22E	78.
2	2	2	2	BG-23E	85.	BW-23E	115.	BR-23E	185.	BO-23E	75.	BF-23E	83.		

TYPE C — DC TIMER		250 VOLTS MAX.													
Type of Operation	Dial	Features				SURFACE MOUNTING								Flush Mounting Without Pull Box	
		Time Delay Contacts		Instantaneous Interlocks		General Purpose Enclosure NEMA Type 1		Water-tight & Dust-tight Enclosure NEMA Type 4 & 5-12		For Hazardous Locations NEMA Type 7 & 9		Open Type		Type	Price
		N.O.	N.C.	N.O.	N.C.	Type	Price	Type	Price	Type	Price	Type	Price		
Time Delay after De-energization of Relay (Off Delay)	Without Dial	1	1	...	...	CG-1D	\$65.	CW-1D	\$ 95.	CR-1D	\$165.	CO-1D	\$55.	CF-1D	\$63.
		1	1	1	1	CG-2D	70.	CW-2D	100.	CR-2D	170.	CO-2D	60.	CF-2D	68.
		2	2	...	...	CG-21D	80.	CW-21D	110.	CR-21D	180.	CO-21D	70.	CF-21D	78.
		2	2	1	1	CG-22D	85.	CW-22D	115.	CR-22D	185.	CO-22D	75.	CF-22D	83.
Time Delay after Energization of Relay (On Delay)	Without Dial	1	1	...	...	CG-1E	\$65.	CW-1E	\$ 95.	CR-1E	\$165.	CO-1E	\$55.	CF-1E	\$63.
		1	1	1	1	CG-2E	70.	CW-2E	100.	CR-2E	170.	CO-2E	60.	CF-2E	68.
		2	2	...	...	CG-21E	80.	CW-21E	110.	CR-21E	180.	CO-21E	70.	CF-21E	78.
		2	2	1	1	CG-22E	85.	CW-22E	115.	CR-22E	185.	CO-22E	75.	CF-22E	83.

SQUARE D CLASS 9050 SOLID STATE TIMING RELAYS

TYPE E — AC TIMER		120 OR 240 VOLTS				50-60 CYCLES	
Description	Maximum Time	Open Type		General Purpose Enclosure NEMA Type 1		Dust-tight Industrial Use Enclosure† NEMA Type 12	
		Type	Price	Type	Price	Type	Price
Industrial Timing Relay, Standard	10 Seconds	EO-3	\$78.	EG-3	\$83.	EA-3	\$ 98.
Industrial Timing Relay, Special Calibration	30 Seconds	EO-3-S1	83.	EG-3-S1	88.	EA-3-S1	113.

Type EO-3



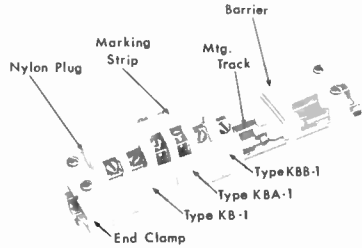
†Functionally equivalent to NEMA Type 5.

The above items are subject to 15% Discount.

SQUARE D CLASS 9080 TERMINAL BLOCKS

TERMINAL BLOCK KITS — 300 VOLT CHANNEL MOUNTED AND DIRECT MOUNTED TYPES

For Customer Assembly*



Description	Type	List Price Each	Minimum Order Quantity
Nylon Terminal Section with Pressure Wire Connectors Wire Size #22 to #14	KB-1	\$.34	50
Nylon Terminal Section with Flat Terminal Wire Size #22 to #14	KBB-1	.32	50
Nylon Terminal Section with Solderless Box Lug — With Pressure Plate Wire Size #22 to #14	KBA-1	.36	50
Nylon Terminal Section with Solderless Box Lug Without Pressure Plate Wire Size #22 to #14	KBC-1	.34	50

Each Terminal block consists of:

- 1—Required number of Type K—sections. Sections can be intermixed either when channel mounted or direct mounted on panel.
- 2—Parts included in Type K-3 or K-4 assembly kit.
- 3—Required length of mounting track, if channel mounted.
- 4—Transition barrier if mounted on same track as 600 volt sections.

Description	Type	List Price Each	Minimum Order Quantity
Mounting Track	1828-C22-		
	Standard Lengths		
	2 1/4"	X2	None
	4 1/4"	X4	
	6 1/2"	X77	
	9"	X84	
	11 3/4"	X16	
	16 3/4"	X102	
	48"	X38		2.00
White Marking Strip — 50" Length.....	1828-D20-X1	.50	None
End Clamp Assembly.....	31047-013-50	.20	100
Barrier.....	31047-003-01	.05	50
Nylon Plug (holds in marking strip).....	31047-005-01	.03	50
Adhesive Backed Marking Strip Sheet, 27 Strips — 11" Length.....	MS-2	2.00	None
Barrier — Used Between 300 and 600 Volt Blocks..	31047-034-01	.15	None
Assembly Kit for Channel Mounting.....	K-3*	.80	None
Assembly Kit for Direct Mounting.....	K-4*	.30	None

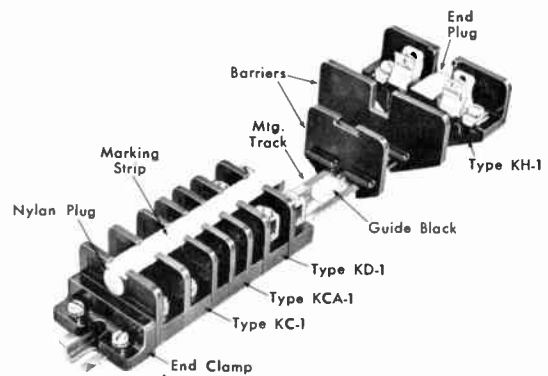
TERMINAL BLOCK KITS — 600 VOLT CHANNEL MOUNTED TYPE

For Customer Assembly*

Each Terminal block consists of:

- 1—Required number of Type K—sections. Sections can be intermixed on same track.
- 2—Parts included in Type K-1 assembly kit (and KH-2 kit if Type KE-1 or KH-1 used).
- 3—Required length of mounting track.

Description	Type	List Price Each	Minimum Order Quantity
Terminal Block Section with Pressure Wire Connectors Wire #10 and smaller	KC-1	\$.37	50
Terminal Block Section with Flat Terminal Wire #10 and smaller	KCB-1	.35	50
Terminal Block Section with Solderless Box Lug Wire #10 and smaller	KCA-1	.45	50
Terminal Block Section with Solderless Box Lug Wire #14-4	KD-1	.84	50
Terminal Block Section with Solderless Box Lug Wire #10-0	KE-1	1.20	None
Fusible Terminal Block Section with Pressure Wire Connector Wire #10 and smaller	KH-1	1.50 ★★	None



Description	Type	List Price Each	Minimum Order Quantity
Mounting Track	1828-C22-		
	Std. Lengths		
	3 1/2"	X3	None
	6"	X7	
	9 1/4"	X12	
	12 1/4"	X18	
	16 1/4"	X24	
	24 1/4"	X36	
	29 1/4"	X39	
	48"	X38	
		2.00	
White Marking Strip — 50" Length.....	1828-C23-X100	\$.50		None
Adhesive Backed Marking Strip Sheet, 20 Strips — 11" Length.....	MS-1	2.00	None
End Clamp Assembly.....	1828-D57-G1	.20	100
Barrier.....	1828-C18-X1	.05	50
Barrier (For KE-1, KF-1 and KH-1).....	1828-C28-X1	.10	50
Guide Blocks.....	1828-D62-X1	.05	100
Nylon Plug (holds in marking strip).....	1828-D71-X1	.03	100
End Plug (For Types KF-1 and KH-1).....	1828-L20-X1	.05	50
Assembly Kit.....	K-1*	1.00	None
Assembly Kit.....	KH-2**	.15	None

* Includes miscellaneous parts required in assembly of complete terminal block. Individual parts are packaged in convenient kit form for small users who do not require larger bulk quantities of parts listed above.

** Includes parts required in addition to Type K-1 kit when Type KE-1 or KH-1 sections used.

★ Factory assembled 2-36 circuit terminal blocks also available.

The above items are subject to 15% Discount.

SQUARE D CLASS 9998 CONTACT PARTS KITS FOR STARTERS, CONTACTORS, AND RELAYS

Equipment To Be Serviced		NEMA Size	No. of Poles in Kit	Class 9998 Parts Kit Type No.	Price Each	
Class	Type					
2510 Manual Starters	B-(Kit includes Contact Block)	0	2	BA-22	\$ 5.	
	B	0	3	BA-21	5.	
	B-(Kit includes Contact Block)	0	3	BA-23	7.	
	C-(Kit includes Contact Block)	1	2	CA-22	7.	
	C	1	3	CA-21	7.	
	C-(Kit includes Contact Block)	1	3	CA-23	9.	
W	0	3	RA-21	5.		
W	1	3	SA-21	7.		
2610 Manual Starters Toggle Type	R	0	3	RA-22	6.	
	S	1	3	SA-22	7.	
Magnetic Relays 7001 7008 8501 8508	A-Q (10 A. Relay)	0	3	QA-81	5.	
	BH-B, R (15 A. Relay)	0	3	RA-81	5.	
	BH-B, R	0	4	RA-82	7.	
	BR (15 Amp. Relay)	0	3	RA-83	6.	
	DO-02, 20, 22; DDO & DEO-20, 22	0	3	RA-84	2.50	
	DO-40, 42; DDO & DEO-40, 42	0	3	RA-85	7.	
	DO-60, 80, 44, 62	0	3	RA-86	9.	
	DO-64, 82	0	3	RA-87	11.	
	GO-20, 11, 02 (10 A., 300 V. Relay)*	0	3	GG-2	5.	
	GO-30, 21, 12, 03*	0	3	GG-3	6.	
	GO-40, 31, 22, 13, 04*	0	3	GG-4	7.	
	GO-60, 51, 42, 33, 24, 15, 06*	0	3	GG-6	9.	
	GO-80, 71, 62, 53, 44, 35, 26, 17, 08*	0	3	GG-8	11.	
	Magnetic Starters & Contactors 7010 8606 7032 8630 7033 8640 7702 8650 7732 8651 8502 8702 8504 8736 8508 8738 8536 8739 8537 8747 8538 8750 8539 8810 8541 8811 8547 8812 8549 8920 8550 8940	A-(Series B)	00	3	AA-81	3.
		A*	00	3	QA-81	5.
B-(Series A)		0	3	BA-81	5.	
B-(Series A)		0	4	BA-82	7.	
B-(Pre-Series A), R		0	3	RA-81	5.	
B-(Pre-Series A), R		0	4	RA-82	7.	
C-(Series A)		1	3	CA-81	8.	
C-(Series A)		1	4	CA-82	11.	
C-(Pre-Series A), S		1	3	SA-81	8.	
C-(Pre-Series A), S		1	4	SA-82	11.	
D-T		2	3	TA-81	18.	
D-T		2	4	TA-82	24.	
E-U		3	3	UA-81	30.	
E-U		3	4	UA-82	40.	
F-(Series A, B) ...		4	3	FA-81	70.	
F-(Series C)	4	3	FA-82	90.		
G-(Vertical Action)	5	3	GA-81	95.		

TYPE S

Magnetic Starters & Contactors 8502 8702 8536 8736 8538 8840	SB	0	3	SL-2	6.
	SB	0	4	SL-12	8.
	SB, SC Power Pole Adder	0, 1	1	SL-22	3.
	SC	1	3	SL-3	8.
	SD	1	4	SL-13	11.
	SD	2	3	SL-4	18.
	SD	2	4	SL-14	24.
	SD Power Pole Adder	2	1	SL-24	6.

FOR PRESSURE, FLOAT AND VACUUM SWITCHES

Equipment To Be Serviced		Class 9998 Type	Price
Class	Type		
9013*	ASG, ALG, AMG, BSG, AHG, ALR, AMR, AHR, ASR, A, AH, AK, AL, AM, AR, V, VR, AK5, AK6	PC-1 Two Pole Only	\$3.15
9016	ASG, ASR		
9017	ASG, AHG		
9036*	AG-5, BKG, A, AK	PC-2	3.00
9013	GSG, GHG		
9036	GG		
9037	GG	PC-3	2.75
9013	FSG Manufactured Prior to July 1, 1965		
9036	FG-1		
9037	HG-1 & 2, HSG, HFG	PC-4	3.00
9044	ESG, A		
9048	A, AR, AW		
9213	DSG, DHG, A, AH, AH-3, G, GH, GH-3	PC-5	5.20
9017	BSG, BHG		
9237	CG, FA-3		
9016	GVG	PC-6	2.60
9013	JSG		
9013	FYG		
9013	HSG	PC-7	3.76
9013	HHG		
9013	HHG		
9013	FSG Manufactured After June 30, 1965	PC-9	2.76
9013	FSG Manufactured After June 30, 1965	PC-10	2.76

*PC-1 Kit is only for two pole devices with date code letter H to X or with numerical date code, i.e. 149 (1st Quarter, 1949).

SQUARE D CLASS 9999 AC MAGNET COILS

Magnet coils are easily installed on any standard ac magnetic contactor or starter. Coils in standard ratings are attractively packaged and marked for easy identification and convenience in stocking. A large selection of coils is available. Contact GRAYBAR for additional information.

SQUARE D CLASS 9999 USER MODIFICATION KITS ELECTRICAL INTERLOCKS

NEMA Size	Device Type No.	Type of Mounting	Contact Arrangement	Location	Class 9999 Type No.	Price
0	B (Series A)	Side Mounted	1-N.O.	L.H. or R.H.	BC-1 BC-2 BC-3	\$6. 6. 8.
1	C (Series A & B)		1-N.O., 1-N.C.			
2	D	Base Mounted Long Terminal	1-N.O.	R.H. L.H.	DT-1 DT-2 DT-3 DT-4 DT-9	6.
			1-N.O., 1-N.C.				R.H. or L.H.	DT-12	8.
		KB Unit Side Mounted	1-N.O.	R.H. L.H.	DT-5 DT-6 DT-7 DT-8	6.
			1-N.C.				R.H. L.H.	DT-10 DT-11	8.
		Base Mounted Long Terminal	1-N.O.	R.H. L.H.	EU-1 EU-2 EU-3 EU-4 EU-9	6.
			1-N.C.				R.H. L.H.	EU-5 EU-6 EU-7 EU-8	6.
3	E	Base Mounted Long Terminal	1-N.O., 1-N.C.	R.H. or L.H.	EU-12	8.
		KB Unit Side Mounted	1-N.O.	R.H. L.H.	EU-10 EU-11	8.
			1-N.C.				R.H. L.H.
		Base Mounted	1-N.O.	R.H. L.H.	F-11 F-12 F-13 F-14 F-15 F-16	6.
			1-N.C.				Center L.H. Center
4	F (Series C)	Base Mounted	1-N.O., 1-N.C.	Any	F-17	8.
4	(Series A & B)	Base Mounted	1-N.O.	R.H. L.H.	F-1 F-2 F-3 F-4 F-5 F-6	6.
			1-N.C.				Center L.H. Center
5	G (Series B)	Base Mounted	1-N.O., 1-N.C.	Any	F-7	8.

PUSH BUTTON AND SELECTOR SWITCH KITS

NEMA Size	Device Type No.	Description	Class 9999 Type No.	Price
00	A (Series B)	"Start-Stop" momentary contact push button "Hand-Off-Auto" selector switch	SA-1	\$8. 8.
0 or 1	B or C	"Start-Stop" momentary contact push button "Hand-Off-Auto" selector switch	A-1 C-1	8. 8.
2 or 3	D or E	"Start-Stop" momentary contact push button "Hand-Off-Auto" selector switch	A-2 C-2	8. 8.
4	F	"Start-Stop" momentary contact push button "Hand-Off-Auto" selector switch	A-4 C-4	8. 8.
5	G	Use Class 9001 Type T oil-tight units		

TYPE S

SQUARE D CLASS 9999 KITS FOR CONTACTORS & STARTERS

	Type	Price
ELECTRICAL INTERLOCKS		
External Electrical Interlock with 1 N.O. contact, L.H. or R.H. mounting	SX-6	\$ 8.
External Electrical Interlock with 1 N.C. contact, L.H. or R.H. mounting	SX-7	6.
External Electrical Interlock with 1 N.O. and 1 N.C. isolated contacts, L.H. or R.H. mounting	SX-8	8.
THIRD OVERLOAD RELAY		
Kit used to convert starter with two overload relays to starter with three Overload relays. (Price includes thermal unit)	SJ-12	\$ 4.
MECHANICALLY OPERATED TIMER		
Time delay after de-energization (off delay)	SK-3	\$36.
Time delay after energization (on delay)	SK-4	36.
POWER POLE ADDER		
One normally open power pole adder	NEMA Size 0, 1, 2 SB-6 SB-11	\$11. 20.
One normally closed power pole adder	0, 1, 2 SB-7 SB-12	11. 20.
One normally open and one normally closed power pole adder	0, 1, 2 SB-8 SB-13	22. 40.
COVER MOUNTED CONTROL UNITS FOR NEMA 1 ENCLOSURE		
Push Button START-STOP	0, 1, 2 SA-2	\$ 8.
Selector Switch HAND-OFF-AUTO	0, 1, 2 SC-2	8.
Selector Switch ON-OFF	0, 1, 2 SC-22	8.
Red pilot light kit for standard slip-on cover enclosure (Class 8502 or 8536), for any voltage thru 600 volts, 50 or 60 cycles.	0, 1, 2 SP-2R SP-3R	15. 15.
Red pilot light kit for hinge cover enclosure (Class 8502 Form FT, Class 8536 Form FT & Class 8538) for any voltage thru 600 volts, 50 or 60 cycles.	0, 1, 2 SP-12R SP-13R	15. 15.

The above items are subject to 15% Discount.

SQUARE D OVERLOAD RELAY THERMAL UNITS

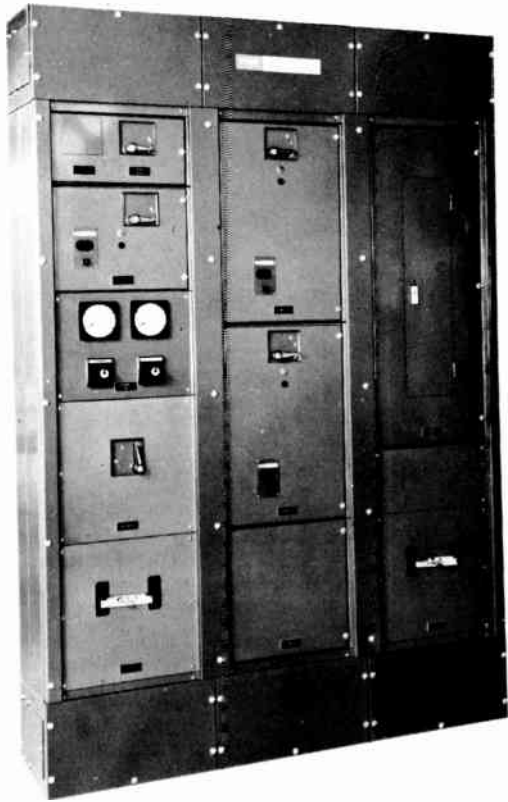
For Use With			Motor Full Load Current	Thermal Unit Number	Motor Full Load Current	Thermal Unit Number	Motor Full Load Current	Thermal Unit Number	Motor Full Load Current	Thermal Unit Number	Motor Full Load Current	Thermal Unit Number
Class	Type	Size										
2510	F (All)		0.41-0.44	A 0.49	0.97-1.04	A 1.16	1.96-2.15	A 2.31	4.33-4.90	A 6.20	9.68-9.95	A 14.1
			0.45-0.49	A 0.54	1.05-1.16	A 1.25	2.16-2.38	A 2.57	4.91-5.35	A 6.99	9.96-10.8	A 14.8
			0.50-0.53	A 0.59	1.17-1.29	A 1.39	2.39-2.75	A 2.81	5.36-5.85	A 7.65	10.9-12.1	A 16.2
			0.54-0.58	A 0.65	1.30-1.37	A 1.54	2.76-2.84	A 3.61	5.86-6.41	A 8.38	12.2-13.1	A 17.9
			0.59-0.65	A 0.71	1.38-1.47	A 1.63	2.85-3.06	A 3.95	6.42-6.79	A 9.25	13.2-13.9	A 19.8
			0.66-0.71	A 0.78	1.48-1.56	A 1.75	3.07-3.45	A 4.32	6.80-7.57	A 9.85	14.0-15.0	A 21.3
			0.72-0.78	A 0.86	1.57-1.65	A 1.86	3.46-3.70	A 4.79	7.58-8.15	A 11.0	15.1-16.0	A 25.2
			0.79-0.85	A 0.95	1.66-1.79	A 1.99	3.71-4.07	A 5.30	8.16-8.98	A 11.9	.....	.....
			0.86-0.96	A 1.02	1.80-1.95	A 2.15	4.08-4.32	A 5.78	8.99-9.67	A 13.2	.....	.....
			2510 2511 2512	B, C Series A	M-0 M-1 M-1P	0.32-0.36	B 0.44	1.04-1.17	B 1.45	3.49-4.00	B 4.85	9.68-10.7	B 14.	22.5-24.9	B 32.
0.37-0.41	B 0.51	1.18-1.31				B 1.67	4.01-4.51	B 5.50	10.8-12.1	B 15.5	25.0-28.1	B 36.
0.42-0.46	B 0.57	1.32-1.46				B 1.88	4.52-4.96	B 6.25	12.2-13.6	B 17.5	Size M-1—27 Amp. Max. Full Load Current	
0.47-0.52	B 0.63	1.47-1.65				B 2.10	4.97-5.52	B 6.90	13.7-15.3	B 19.5	28.2-31.3	B 40.
0.53-0.59	B 0.71	1.66-1.85				B 2.40	5.53-5.87	B 7.70	15.4-17.3	B 22.	31.4-36.0	B 45.
0.60-0.67	B 0.81	1.86-2.12				B 2.65	5.88-6.47	B 8.20	17.4-19.4	B 25.	Size M-1P—36 Amp. Max. Full Load Current	
0.68-0.77	B 0.92	2.13-2.36				B 3.00	6.48-7.23	B 9.10	19.5-22.4	B 28.0	Size M-0—18 Amp. Max. Full Load Current	
0.78-0.85	B 1.03	2.37-2.65				B 3.30	7.24-8.07	B 10.2	22.8-25.7	B 32.	Size M-1—27 Amp. Max. Full Load Current	
0.86-0.93	B 1.16	2.66-3.03				B 3.70	8.08-8.95	B 11.5	25.8-29.7	B 36.	Size M-1P—36 Amp. Max. Full Load Current	
0.94-1.03	B 1.30	3.04-3.48				B 4.15	8.96-9.67	B 12.8	29.8-33.7	B 40.	Size M-0—18 Amp. Max. Full Load Current	
A Series B (Class 8536 Only)	00		0.42-0.46	A 0.49	0.82-0.89	A 0.95	1.52-1.62	A 1.75	2.78-2.99	A 3.61	5.24-5.39	A 6.99
			0.47-0.50	A 0.54	0.90-0.98	A 1.02	1.63-1.73	A 1.86	3.00-3.26	A 3.95	5.40-5.88	A 7.65
			0.51-0.55	A 0.59	0.99-1.12	A 1.16	1.74-1.86	A 1.99	3.27-3.59	A 4.32	5.89-6.56	A 8.38
			0.56-0.62	A 0.65	1.13-1.20	A 1.25	1.87-2.02	A 2.15	3.60-3.99	A 4.79	6.57-7.18	A 9.25
			0.63-0.67	A 0.71	1.21-1.34	A 1.39	2.03-2.25	A 2.31	4.00-4.42	A 5.30	7.19-7.80	A 9.85
			0.68-0.73	A 0.78	1.35-1.41	A 1.54	2.26-2.46	A 2.57	4.43-4.61	A 5.78	7.81-9.00	A 11.0
			0.74-0.81	A 0.86	1.42-1.51	A 1.63	2.47-2.77	A 2.81	4.62-5.23	A 6.20	.....	.....
			0.29-0.31	B 0.44	1.10-1.23	B 1.67	4.06-4.40	B 6.25	11.4-12.5	B 19.5	24.8-27.2	B 50.
			0.32-0.35	B 0.51	1.24-1.42	B 1.88	4.41-5.00	B 6.90	12.6-13.4	B 22.	Size 1—27 Amp. Max. Full Load Current	
			0.36-0.40	B 0.57	1.43-1.64	B 2.10	5.01-5.67	B 7.70	13.5-15.4	B 25.	27.3-29.9	B 56.
B Series A C Series B	0 1 1P		0.41-0.49	B 0.63	1.65-1.80	B 2.40	5.68-6.31	B 8.20	15.5-17.1	B 28.0	30.0-32.1	B 62.
			0.50-0.53	B 0.71	1.81-2.05	B 2.65	6.32-7.03	B 9.10	17.2-18.6	B 32.	33.0-36.0	B 66.
			0.54-0.61	B 0.81	2.06-2.30	B 3.00	7.04-7.74	B 10.2	19.0-21.0	B 36.	Size 1P—36 Amp. Max. Full Load Current	
			0.62-0.68	B 0.92	2.31-2.58	B 3.30	7.75-8.07	B 11.5	21.1-22.7	B 40.	Size 0—18 Amp. Max. Full Load Current	
			0.69-0.77	B 1.03	2.59-2.93	B 3.70	8.08-9.19	B 12.8	22.8-24.7	B 45.	Size 1—27 Amp. Max. Full Load Current	
			0.78-0.89	B 1.16	2.94-3.32	B 4.15	9.20-9.83	B 14.	25.8-29.7	B 36.	.....	.....
			0.90-1.03	B 1.30	3.33-3.81	B 4.85	9.84-10.5	B 15.5	29.8-33.7	B 40.	.....	.....
			1.04-1.09	B 1.45	3.82-4.05	B 5.50	10.6-11.3	B 17.5	33.8-37.7	B 45.	.....	.....
			0.29-0.31	B 0.44	1.06-1.22	B 1.67	4.01-4.40	B 6.25	11.9-13.2	B 19.5	.....	.....
			0.32-0.34	B 0.51	1.23-1.34	B 1.88	4.41-4.88	B 6.90	13.3-14.9	B 22.	.....	.....
0.35-0.38	B 0.57	1.35-1.51	B 2.10	4.89-5.19	B 7.70	15.0-16.6	B 25.	.....	.....	
8536 (Starter In Own Enclosure) 8988 8989 (Motor Control Center) QMB Panel	SB, SC Series A	0, 1 Type S	0.39-0.45	B 0.63	1.52-1.71	B 2.40	5.20-5.73	B 8.20	16.7-18.9	B 28.0	.....	.....
			0.46-0.54	B 0.71	1.72-1.93	B 2.65	5.74-6.39	B 9.10	18.0-20.0	B 32.	.....	.....
			0.55-0.61	B 0.81	1.94-2.14	B 3.00	6.40-7.13	B 10.2	21.3-23.0	B 36.	.....	.....
			0.62-0.66	B 0.92	2.15-2.40	B 3.30	7.14-7.90	B 11.5	23.1-25.5	B 40.	.....	.....
			0.67-0.73	B 1.03	2.41-2.72	B 3.70	7.91-8.55	B 12.8	25.6-27.0	B 45.	.....	.....
			0.74-0.81	B 1.16	2.73-3.15	B 4.15	8.56-9.53	B 14.	29.8-33.7	B 40.	.....	.....
			0.82-0.94	B 1.30	3.16-3.55	B 4.85	9.54-10.6	B 15.5	33.8-37.7	B 45.	.....	.....
			0.95-1.05	B 1.45	3.56-4.00	B 5.50	10.7-11.8	B 17.5	37.8-41.7	B 45.	.....	.....
			0.31-0.35	B 0.44	0.93-1.03	B 1.30	2.66-2.97	B 3.70	7.32-8.21	B 10.2	20.1-22.9	B 28.0
			0.36-0.39	B 0.51	1.04-1.19	B 1.45	2.98-3.47	B 4.15	8.22-9.18	B 11.5	23.0-25.8	B 32.
0.40-0.44	B 0.57	1.20-1.34	B 1.67	3.48-3.94	B 4.85	9.19-9.99	B 12.8	25.9-28.6	B 36.			
SD Series A	2 Type S		0.45-0.50	B 0.63	1.35-1.50	B 1.88	3.95-4.44	B 5.50	10.0-11.0	B 14.	28.7-32.2	B 40.
			0.51-0.58	B 0.71	1.51-1.72	B 2.10	4.45-4.94	B 6.25	11.1-12.4	B 15.5	32.3-35.8	B 45.
			0.59-0.65	B 0.81	1.73-1.89	B 2.40	4.95-5.52	B 6.90	12.5-13.9	B 17.5	35.9-40.1	B 50.
			0.66-0.73	B 0.92	1.90-2.14	B 2.65	5.53-5.88	B 7.70	14.0-15.7	B 19.5	40.2-45.0	B 56.
			0.74-0.82	B 1.03	2.15-2.36	B 3.00	5.89-6.52	B 8.20	15.8-17.8	B 22.	.....	.....
			0.83-0.92	B 1.16	2.37-2.65	B 3.30	6.53-7.31	B 9.10	17.9-20.0	B 25.	.....	.....
			3.29-3.74	B 4.85	6.14-6.91	B 9.10	11.7-12.9	B 17.5	23.7-26.3	B 36.	40.8-41.9	B 66.
			3.75-4.23	B 5.50	6.92-7.70	B 10.2	13.0-14.6	B 19.5	26.4-29.3	B 40.	42.0-45.0	B 70.
			4.24-4.68	B 6.25	7.71-8.56	B 11.5	14.7-16.5	B 22.	29.4-35.1	B 45.	.....	.....
			4.69-5.22	B 6.90	8.57-9.39	B 12.8	16.6-18.5	B 25.	35.2-36.1	B 50.	.....	.....
E Series A	3		14.4-15.7	C 20.	24.4-28.6	C 34.	36.6-41.5	C 51.	59.5-64.3	C 83.	.....	.....
			15.8-18.6	C 22.	28.7-30.1	C 40.	41.6-47.3	C 58.	64.4-73.5	C 90.	.....	.....
			18.7-21.4	C 26.	30.2-32.2	C 42.	47.4-53.7	C 66.	73.6-81.3	C 103.	.....	.....
F Series C	4		43.8-46.3	CC 64.3	54.7-58.4	CC 81.5	68.5-73.3	CC 103.	84.3-91.9	CC 132.	108.-115.	CC 167.
			46.4-50.0	CC 68.5	58.5-62.6	CC 87.7	73.4-78.9	CC 112.	92.0-99.3	CC 143.	116.-135.	CC 180.
			50.1-54.6	CC 74.6	62.7-68.4	CC 94.0	79.0-84.2	CC 121.	99.4-107.	CC 156.	.....	.....
G Series B	5		84.0-91.4	DD 112.	107.-114.	DD 140.	138.-155.	DD 185.	190.-214.	DD 265.	.....	.....
			91.5-99.4	DD 121.	115.-123.	DD 150.	156.-176.	DD 220.	215.-229.	DD 300.	.....	.....
			99.5-106.	DD 128.	124.-137.	DD 160.	177.-189.	DD 250.	230.-270.	DD 320.	.....	.....

SELECTION OF THERMAL UNITS FOR SPECIAL APPLICATIONS

Motor Service Factor	Motor Duty Rating	Ambient Temperature of Motor Same as Controller	Ambient Temperature of Motor 15° C. (27° F.) Higher Than Controller	Ambient Temperature of Motor 15° C. (27° F.) Lower Than Controller
1.15 or Higher 1.0	40° C. Continuous 50-55° C. Continuous	Select from table Use 1 Size smaller than in table	Use 1 Size smaller than in table Use 2 Sizes smaller than in table	May be 1 Size smaller than table Select from table

Order thermal units by number..... Price Each \$1.50

The above items are subject to 15% Discount.

MOTOR CONTROL CENTERS

Control centers provide an ideal means for centralizing motor control and switching operations where motors are used in quantity. Some of the added advantages of using centralized control systems are:

Safety — Buses are fully enclosed, rigidly supported; individually enclosed plug-in units; dead front construction; safety door handle for maximum operator safety.

Increased Flexibility — Control centers simplify conversions; modular design permits addition or replacement of units as desired.

Installation Economy — Reduces cost — only one set of feeder cables or duct required; factory installed bus distributes power to branch circuits; loadside wires easily laid in handy wiring troughs — no wire fishing.

Neat Appearance — One enclosure contains all devices for electrical installation — no unsightly grouping of separate pieces.

Simplified Maintenance — Lowers cost . . . centrally located control units provide greater accessibility for systematic inspection and maintenance . . . no scattered control locations.

Compact Installation — Less floor space used. Each vertical 90 inch high section accommodates up to 8 combination starter units. Back to back construction allows for minimum space.



Lower Maintenance Costs — Location away from work areas helps prevent damage from dust, chips, oils or other materials as well as accidental damage from normal production activity.

CLASSES AND TYPES OF MOTOR CONTROL CENTERS

Motor control centers are made in one of the following classes and types and include the corresponding features.

Class I Type A

1. No terminal boards for the load or control connections.
2. Connection diagrams only for each combination controller or control assembly.
3. Sketches of the overall dimensions of the control centers.

Class I Type B

1. Type B is similar to Type A, except that a unit control terminal board is provided. Unit load terminal boards are also provided for size 3 combination controllers or smaller. These terminal boards are mounted on or adjacent to each unit. No load terminal boards for feeder tap units.
2. Connection diagrams only for each combination controller or control assembly.
3. Sketches of the overall dimensions of the control centers.

Call Graybar for Complete Details

**MOTOR CONTROL CENTERS
CLASSES AND TYPES OF MOTOR
CONTROL CENTERS**

Class I Type C

1. Master section terminal boards including load terminals for size 3 combination controllers or smaller, and all control terminals for all combination controllers or control assemblies in each vertical section are mounted on the stationary structure; also complete wiring between combination controllers or control assemblies and their master terminal boards. No load terminal boards for feeder tap units.
2. No wiring between sections or between any master terminals.
3. No interconnecting between any combination controllers or control assemblies. All outgoing wires from any unit will be carried to the master terminal board, except wiring for size 4 combination controllers or larger.
4. Connection diagram for each combination controller or control assembly.
5. Sketch of main terminal boards showing general location of terminals.
6. Sketches of the overall dimensions of the control centers.

Class II Type B

1. Unit control terminal board is provided. Unit load terminal blocks are also provided for size 3 combination controllers or smaller. These terminal boards are mounted on or adjacent to each unit. No load terminals for feeder tap units.
2. The necessary interconnecting wiring between combination controllers and control assemblies in the same or other sections.
3. A connection diagram of the complete control assembly.
4. Sketches of the overall dimensions of the control centers.

Class II Type C

1. Master section terminal boards, including load terminals for size 3 combination controllers or smaller, and control terminals for all combination controllers or control assemblies in each vertical section are mounted on the stationary structure; also complete wiring between combination controllers or control assemblies and master terminal boards. No load terminal boards for feeder tap units.
2. The necessary interconnecting wiring between combination controllers and control assemblies in the same or other sections.
3. A connection diagram of the complete control center.
4. Sketches of the overall dimensions of the control centers.

Suppliers:

Arrow-Hart & Hegeman
Cutler-Hammer
Federal Pacific
General Electric
Square D

CONTROL CENTER - Layout and Specifications

Customer		Identification		Plant	
Customer's Order No.		Order No.		Issue Date	
Layout By		Approved Drawings Required		Approved for Construction	
				Sheet /	

1. ENCLOSURE TYPE

- NEMA Type 1 Indoor
- NEMA Type 3 Weather-resistant
 - Walk-in
 - Non walk-in
- Other
- Nameplates Type _____

2. ARRANGEMENT

- Front Mounting Only
- Back-to-back Mounting
- Straight L Shape
- U Shape
- Rear Accessible
- Not Accessible from Rear

3. SUPPLY

_____ Volts _____ Phase
_____ Wire _____ Cycles

4. BUSSING

- A. Bracing 22,000 amps 42,000 amps
 Other _____
- B. Horizontal Bus
- 600 amp Top
 - Other _____ amp Bottom

C. Vertical Bus

- 400 amp
- Other _____ amp

D. Ground Bus

- Top Bottom

E. Neutral Bus for three phase 4-wire

- system _____ amps
- Top Bottom

5. INCOMING CABLE OR BUS

- _____ Size _____ No. per phase
- Top Bottom
 - Other _____
- Section No. _____

6. MAIN DISCONNECT

- None Required
 - Circuit Breaker Frame _____
 - Fused Disconnect Amps _____
 - NEC Fuses Dual Element
 - Current Limiting
- Fuses Furnished Yes No

7. CLASS AND TYPE OF WIRING

- NEMA Class 1

NEMA Class 2

- Type A Type B
- Type C Top Bottom

8. STARTER TYPE

- Circuit Breaker Combination
 - Fusible Combination
 - NEC Dual Element
 - Current Limiting Fuses
- Fuses Furnished Yes No

9. CONTROL CIRCUITS _____ VOLTS

- Control voltage from and same as supply voltage
- Individual control transformers 120 volt secondary with (single) (double) secondary fuse
- Group control transformer, 120 volt secondary
- Separately purchased external control source _____ volts
- * Interlock on (Disconnect) (Unit Door) to open control circuit
- * Fused control circuit (single) (two) fuses

*Recommended when group control transformer or separate external source is used.

Call Graybar for Complete Details

**MILWAUKEE RELAYS
105 SERIES PLUG-IN RELAYS**

Series	Contact Poles	Rating in Amps	Coil Voltage/Current	Resistance (Ohms)	Nominal Power	Sugg. Resale Price
105	SPDT	5A	6VAC	5.3	2.0VA	\$5.40
			12VAC	21		5.40
			24VAC	82		5.40
			48VAC	354		5.40
			115VAC	2,250		5.40
			230VAC	9,100		5.75
105	SPDT	10A	6VAC	5.3	2.0VA	5.50
			12VAC	21		5.50
			24VAC	82		5.50
			48VAC	354		5.50
			115VAC	2,250		5.50
			230VAC	9,100		5.85
105	DPDT	5A	6VAC	4.7	2.2VA	6.00
			12VAC	19		6.00
			24VAC	74		6.00
			48VAC	280		6.00
			115VAC	1,800		6.00
			230VAC	6,800		6.40
105	DPDT	10A	6VAC	4.7	2.2VA	6.25
			12VAC	19		6.25
			24VAC	74		6.25
			48VAC	280		6.25
			115VAC	1,800		6.25
			230VAC	6,800		6.60
105	3PDT	5A	6VAC	4.7	2.2VA	7.35
			12VAC	19		7.35
			24VAC	74		7.35
			48VAC	280		7.35
			115VAC	1,800		7.35
			230VAC	6,800		7.55
105	3PDT	10A	6VAC	4.7	2.2VA	7.50
			12VAC	19		7.50
			24VAC	74		7.50
			48VAC	280		7.50
			115VAC	1,800		7.50
			230VAC	6,800		7.95
105	SPDT	5A	6VDC	32	1.2W	5.40
			12VDC	130		5.40
			24VDC	490		5.40
			48VDC	1,800		5.40
			110VDC	10,000		5.85
105	SPDT	10A	6VDC	32	1.2W	5.50
			12VDC	130		5.50
			24VDC	490		5.50
			48VDC	1,800		5.50
			110VDC	10,000		5.95
105	DPDT	5A	6VDC	32	1.2W	6.00
			12VDC	130		6.00
			24VDC	490		6.00
			48VDC	1,800		6.00
			110VDC	10,000		6.50
105	DPDT	10A	6VDC	32	1.2W	6.20
			12VDC	130		6.20
			24VDC	490		6.20
			48VDC	1,800		6.20
			110VDC	10,000		6.70
105	3PDT	5A	6VDC	32	1.2W	7.45
			12VDC	130		7.45
			24VDC	490		7.45
			48VDC	1,800		7.45
			110VDC	10,000		8.00
105	3PDT	10A	6VDC	32	1.2W	7.75
			12VDC	130		7.75
			24VDC	490		7.75
			48VDC	1,800		7.75
			110VDC	10,000		8.20

**MILWAUKEE RELAYS
900 SERIES POWER RELAYS**

900	SPST-NO	25A	24VAC	12	9.5VA	\$4.25
900	SPST-NO-DM	25A	6VAC	.85	9.5VA	4.35
			12VAC	3.2		4.35
			24VAC	12		4.35
			115VAC	290		4.35
			230VAC	1,200		4.75



105 Series

General purpose plug-in relay. Light transparent blue butyrate dust cover. Available with B-3 hold down spring for special mountings. 1/8" dia. silver cadmium oxide contacts, gold flashed. 5 amps., 3/16" dia. silver cadmium oxide contacts, gold flashed, 10 amps. Mountings: Standard 8 and 11 pin plugs.



900 Series

Power relay. Long life, rugged construction. UL File No. 37066. CSA File No. 20690.



100ML/101ML Series

General purpose magnetic latching relay. Positive magnetic latch. UL approved. Up to 6PDT, 5 or 10 amp contact rating. Standard solder or 3/16" quick-connect terminals.

**102ML Series
(Not UL Listed)**

General purpose magnetic latching relay. Positive magnetic latch. Up to 6PDT, 5 or 10 amp contact rating. Standard solder or 3/16" quick-connect terminals. Specify 100ML or 101ML for UL listed AC relay.

**MILWAUKEE RELAYS
900 SERIES POWER RELAYS (Con't.)**

Series	Contact Poles	Rating in Amps	Coil Voltage/Current	Resistance (Ohms)	Nominal Power	Sugg. Resale Price
900	SPDT	25A	6VAC	.85	9.5VA	4.55
			12VAC	3.2		4.55
			24VAC	12		4.55
			115VAC	290		4.55
			230VAC	1,200		5.00
900	DPST-NO	25A	6VAC	.85	9.5VA	\$5.15
			12VAC	3.2		5.15
			24VAC	12		5.15
			115VAC	290		5.15
			230VAC	1,200		5.60
900	DPDT	25A	6VAC	.85	9.5VA	6.75
			12VAC	3.2		6.75
			24VAC	12		6.75
			115VAC	290		6.75
			230VAC	1,200		7.30
900	SPST-NO-DM	25A	6VDC	18	2W	4.35
			12VDC	72		4.35
			24VDC	290		4.35
			48VDC	1,150		4.35
			110VDC	6,050		5.00
900	SPDT	25A	6VDC	18	2W	4.55
			12VDC	72		4.55
			24VDC	290		4.55
			48VDC	1,150		4.55
			110VDC	6,050		5.20
900	DPST-NO	25A	6VDC	18	2W	5.15
			12VDC	72		5.15
			24VDC	290		5.15
			48VDC	1,150		5.15
			110VDC	6,050		5.80
900	DPDT	25A	6VDC	18	2W	6.75
			12VDC	72		6.75
			24VDC	290		6.75
			48VDC	1,150		6.75
			110VDC	6,050		7.40

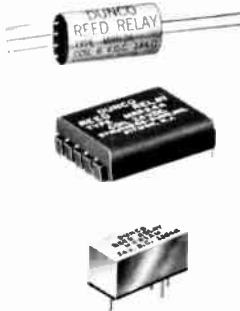
**MILWAUKEE RELAYS
100ML, 101ML, 102ML SERIES
MAGNETIC LATCHING RELAYS**

100ML	4PDT	5A	6VDC	21	2W	\$ 9.60
			12VDC	82		9.60
			24VDC	300		9.60
			110VDC	6,800		10.95
101ML	4PDT	10A	6VDC	21	2W	9.85
			12VDC	82		9.85
			24VDC	300		9.85
			110VDC	6,800		11.10
100ML	6PDT	5A	6VDC	21	2W	11.70
			12VDC	82		11.70
			24VDC	300		11.70
			110VDC	6,800		12.80
101ML	6PDT	10A	6VDC	21	2W	12.05
			12VDC	82		12.05
			24VDC	300		12.05
			110VDC	6,800		13.25
102ML	4PDT	5A	6VAC	1.8	3VA	10.75
			12VAC	7.5		10.75
			24VAC	32		10.75
			115VAC	1,000		10.75
			230VAC	4,100		11.55
102ML	4PDT	10A	6VAC	1.8	3VA	10.90
			12VAC	7.5		10.90
			24VAC	32		10.90
			115VAC	1,000		10.90
			230VAC	4,100		11.65
102ML	6PDT	5A	6VAC	1.8	3VA	12.95
			12VAC	7.5		12.95
			24VAC	32		12.95
			115VAC	1,000		12.95
			230VAC	4,100		13.95
102ML	6PDT	10A	6VAC	1.8	3VA	13.15
			12VAC	7.5		13.15
			24VAC	32		13.15
			115VAC	1,000		13.15
			230VAC	4,000		14.15

STRUTHERS-DUNN DRY REED RELAYS

MINIATURE

Minimum size and long life for dry, logic and light load switching. CONTACTS: Form "A" — normally open, Form "B" — normally closed; RATINGS: 4 watts max. non-inductive to 250 volts or 125 ma. INSULATION 250 rms V. AC. COILS for 6, 12 or 24 volts DC are standard (approx. 125 MW/pole).



MRR types, epoxy molded, axial terminals, wrap around magnetic shielding, form "A" contacts only.

MRRS low profile types, epoxy molded, internal magnetic shielding P/C terminals, form "A" contacts only.

MRR-M types, magnetically shielded envelope, non-magnetic P/C terminals, 1 & 2 pole, form "A" & "B" contacts.

Relay	Contacts	Dimensions ("Max.")	Each
MRR1A	1 Form "A"	1 1/8 x .425 dia.	\$4.20*
MRR2A	2 Form "A"	1 1/8 x .515 x .430	6.20**
MRR4A	4 Form "A"	1 1/8 x .810 x .535	10.60
MRRS1A	1 Form "A"	1.30 x .50 x .350	4.00
MRRS2A	2 Form "A"	1.30 x .625 x .350	6.10
MRRS4A	4 Form "A"	1.30 x 1.0 x .350	7.70
MRR1AM	1 Form "A"	1 1/8 x .50 x .500	5.70
MRR2AM	2 Form "A"	1 1/8 x .50 x .500	6.80
MRR1BM	1 Form "B"	1 1/8 x .50 x .500	5.90
MRR1A1BM	1 Form "A" & "B"	1 1/8 x .50 x .500	7.70

*with 24v. coil \$6.20
**with 24v. coil 7.70

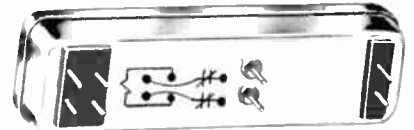
STANDARD SIZE DRY REED RELAYS

Maximum life and higher CONTACT ratings for logic and control switching of loads from dry circuit to 100r 15 watts resistive, up to 1 amp or 250 volts max. Insulation: 400 rms volts AC. COILS for 6, 12 or 24 volts DC. (Approx. 6.5 watts/pole.)



RR TYPES epoxy molded, axial terminals, CONTACTS: 15 watts, form "A" — Normally open, form "B" — Normally closed, Single pole relays may be form "A" or "B". Multipole relays are form "A" only.

RR-M RELAYS, magnetically shielded package, non-magnetic terminals. CONTACTS: form "A" and "B" combinations, 10 Watt rating.



Relay	Contacts	Dimensions ("Max.")	Each
RR1A	1 Form "A"	1 7/8 x .655 dia.	\$3.20
RR1B	2 Form "B"	1 7/8 x .655 dia.	4.10
RR2A	2 Form "A"	1 7/8 x .840 x .670	5.00
RR4AF	4 Form "A"	1 7/8 x 1.385 x .810	8.60
RR1A1BM	1 Form "A" & 1 "B"	2 1/8 x .800 x .550	7.00
RR2BM	2 Form "B"	2 1/8 x .800 x .550	7.00
RR2A2BM	2 Form "A" & 2 "B"	2 1/8 x 1.200 x .550	12.30

Also Available:

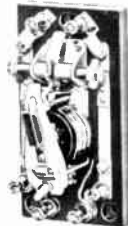
Form "A", "B" & "C" CONTACTS to 12 POLE BI-STABLE MAGNETIC LATCHING RELAYS FLIP-FLOP LOGIC MODULES. MERCURY WETTED CONTACT RELAYS (P/C or plug-in)

STRUTHERS-DUNN COMMERCIAL RELAYS

A minimal listing from the world's greatest variety of relays for industry. Conservatively rated silver contacts are self wiping. Insulating base. Stud terminals with wiring hardware. Long life, high reliability. Replaceable contacts and coils. Custom quality.

GENERAL PURPOSE RELAYS transfer when energized and spring return when de-energized. Continuous duty coils.

B1BXX General Purpose **51BXX46** Latching **B11BXX** Sequencing



MIDGET SIZE

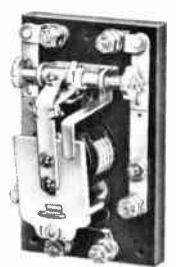
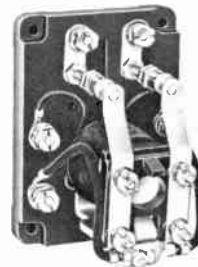
Compact "MIDGET" RELAYS for control circuitry and small and medium size loads. CONTACTS: 6A @ 24V DC & 115V AC; 3A @ 230V AC non-inductive. 300V spacing. COILS for 6, 12, 24, 115 & 230V 60 cps AC (6va) and 6, 12, 24 & 115V DC (3W) continuous duty, except B11 FR. COILS are for 24, 115 & 230V 60 cps AC (7va) and 24 & 115V DC (6W) intermittent duty.

Relay Type	Contacts	Base	Each
General Purpose			
B1HXX	1 N.O.	2 3/4 x 1 7/8	\$ 8.90
B1BXX*	2 N.O.	2 3/4 x 1 7/8	11.70
B1XB*	2 D.T.	2 3/4 x 1 7/8	12.50
A1CXX*	3 N.O.	3 1/2 x 2 1/2	15.20
A1XC*	3 D.T.	3 1/2 x 2 1/2	16.90
Latching			
51BXX46	2 N.O.	3 1/4 x 3	18.20
51AXA46	1 N.O.	3 1/4 x 3	18.20
Sequencing			
B11BXX	2 N.O.	3 1/8 x 2	24.20
B11AXA	1 N.O. in N.C.	3 1/8 x 2	24.20

LATCH RELAYS have two coils, one for transferring the contacts in each direction. A momentary pulse is sufficient to operate, but coils are for continuous duty.

SEQUENCE RELAYS have cam operated contacts, which transfer in accordance with a predetermined sequence initiated by momentary pulses. Single coil is intermittent duty.

8BXX General Purpose **A5HXX46** Latch **C85AXA** Sequence



POWER SIZE

A complete line of heavy duty custom quality relays combining light load reliability with heavy duty load handling capability. Available functional types and features are same as for "midget" control circuit relays. COILS for 24, 115, 230 & 440 V60 cps AC and 24, 115 & 230V DC are standard.

Contact Ratings in amperes for non-inductive loads	Type	115/230AC 24V DC	115V DC	230V DC
	D.B.	30	6	3
	S.B.	30	3	0.75
	R.A.	20	1	0.25
Relay Types and Contact Arrangements				
Relay	Contacts	Type	Base	Each
A8HXX*	1 N.O.	D.B.	4 1/4 x 3	\$15.70
8BXX*	2 N.O.	S.B.	4 1/4 x 3	20.60
8AXA*	1 & 1	S.B.	4 1/4 x 3	20.60
A8CXX*	3 N.O.	S.B.	4 1/4 x 3	23.30
84BXX	2 & 2	S.B.	6 1/4 x 3	28.90
A5BXX46	2 N.O.	S.B.	4 1/2 x 3 1/4	24.20
A5AXA46	1 & 1	S.B.	4 1/2 x 3 1/4	24.20
C85BXX	2 N.O.	R.A.	5 x 3	38.40
C85AXA	1 & 1	R.A.	5 x 3	38.40

1 N.O. — 1 normally open
1 & 1 — 1 open & 1 closed

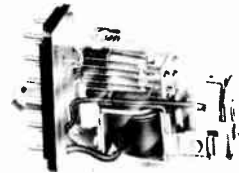
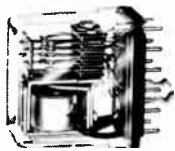
2 N.O. — 2 normally open
2 & 2 — 2 open & 2 closed

All Commercial Relays have Underwriter's Spacing — Those Marked (*) Are U.L. Listed

STRUTHERS-DUNN INDUSTRIAL HEAVY DUTY PLUG-IN RELAYS

A complete matching line of rugged plug-in electrical control components for machine tool, machinery, processing and other industrial control panels. All are mounted on the same 12 pin plug and fit the same socket. Transparent polycarbonate covers provide dust, dirt, moisture and mechanical protection. A friction type locking clip on the plug fits a socket cavity to provide polarization and remarkable "hold-in" ability. Base dimensions of all relays — 2 3/8" x 1 1/2" max.

bonate covers provide dust, dirt, moisture and mechanical protection. A friction type locking clip on the plug fits a socket cavity to provide polarization and remarkable "hold-in" ability. Base dimensions of all relays — 2 3/8" x 1 1/2" max.



219BBXP Relay and #27390 Socket

235AAXP Time Delay

211XBBXP Sequence

255XCXP Latch

Relay Type	Contacts	Height		Each
		Pins	O/A	
General Purpose				
219BBXP	DP DT & 2 NO	2 1/2	3 1/2	\$14.50
219BXXP	DP DT	2 1/2	3 1/2	12.10
219ABAP	DP DT, 1 NO & INC.	2 1/2	3 1/2	14.50
Latch				
255XBXP	DP DT	3 3/4	4 1/8	24.20
255XCXP	3P DT	3 3/4	4 1/8	26.60
255BXXP	2 NO & 2 NC	3 3/4	4 1/8	26.60
Sequence				
211AXAP	1 NO & 1 NC	3 3/4	4 1/8	22.80
211BXXP	2 NO	3 3/4	4 1/8	22.80
211XBBXP	2 DT	3 3/4	4 1/8	25.10

No. 27390 Sockets with full 10 ampere current handling capability screw terminals with underhead clamping plates to accommodate up to two No. 14 wires. Price \$2.20. Base 2 1/2" x 2 1/8" x 1 1/2" deep.

No. 219 FRAME GENERAL PURPOSE RELAYS life expectancy of 20 million mechanical operations, min. Epoxy encapsulated coils. INSULATION: 1500 rms V. HEIGHT 2 1/2" (less pins & clip) or 3 1/2" O/A. CONTACTS: 10 amps. @ 115V AC and 24V DC & 0.25 amps. @ 115V DC. COILS for 12, 24 & 115V 60 cps AC (approx. 5 VA) and 12, 24 & 115V DC (1.8W). U.L. listed.

No. 255 FRAME LATCH RELAYS have 2 coils and mechanical latch. A momentary pulse to one coil transfers contacts to latched position. Pulse to other coil releases latch, allowing contacts to return. Coils can be energized continuously. All contacts operate from same armature to avoid overlapping. 10 million mechanical operations minimum.

No. 211 FRAME SEQUENCE RELAYS have cam operated contacts which change position on each impulse. Hold last position until next impulse. LIFE EXPECTANCY 10 million mechanical operations. CONTACTS: 5 amps. @ 115 frame AC or 24 DC non-inductive. Continuous duty. COILS for 12, 24, 115 & 230V 60 cps AC and 12, 24, & 115V DC.

No. 235 and 236 FRAME TIME DELAY RELAYS combine epoxy encapsulated solid state timing elements with 219 frame relays in a single plug-in package. Relay operates following a pre-determined time delay, which starts when the unit is energized, and is ready for recycling within 50 milliseconds after unit is de-energized. Internal time setting is screw driver adjustable over 90:1 range with terminals brought out for optional external resistor adjustment. CONTACT INSULATION & RATINGS same as 219 frame relays. NO HI-POT ON TIMING-CONTROL CIRCUIT. OPERATING CIRCUIT for use on 115V. 60 cps AC only.

Timer Type	Contacts	Timing Range	Accuracy	Each
235AAXP	1DT & 1 NO	0.2- 18 sec.	±5%	\$57.80
235AAXP	1DT & 1 NO	2.0-180 sec.	±5%	57.80
236ABXP	2DT & 1 NO	1.0- 20 sec.	±1%	71.50

STRUTHERS-DUNN MISCELLANEOUS RELAYS, CONTACTORS, MOTOR CONTROL



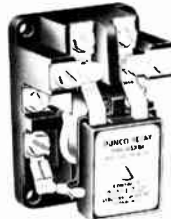
Relay Type	Contacts	*Each	115V DC
214XAX48P	SP-DT	\$4.40	\$4.80
214XBX48P	DP-DT	5.00*	5.50
214XCX48P	3P-DT	6.00	6.60

*Except with 115V DC coil.

No. 214 FRAME plug-in relays, small, light and low in cost, for use in control circuits and on small to medium loads. Clear plastic cover. DIMENSIONS: Base 1 3/8" square x 2 1/2" high without pins, or 3 3/8" overall. CONTACTS: 5 amps., 115V AC non-inductive. COILS for 6, 12, 24, 115 & 230 volts 60 cps AC and 6, 12, 24, and 115 volts DC.

No. 415XBX compact rugged DP-DT power relay with wiping contacts for reliable operation in control circuitry and weld resistant contact material for high inrush loads. CONTACTS: 15 amp. @ 115V AC, 10 amps. @ 230V AC, non-inductive. INSULATION: 1500V AC & UL spacing for 300 volts. COILS for 6, 12, 24, 115 and 230V 60 cps AC (6VA) 6, 12, 24, & 115V DC (3W). BASE: 2 3/8" x 1 1/8". Each \$7.20.

No. 4HXX56H3 TELEPHONE AUXILIARY RELAY SET consisting of a relay and condenser mounted and wired in a sheet-metal housing. Operates on 8 ma at 76-90 volts, 20 cycle from a telephone ringing circuit. SP-DB-NO contacts are used to operate audible and/or visual signals from a separate power source. CONTACTS: 10 amps. @ 115V DC, non-inductive. Each \$30.50.



415XBX Compact Power



4HXX56H3 Telephone Auxiliary



275KXX Compact Reversing

No. 275 FRAME 1 H.P. reversing contactor consists of two 3 pole contactors on a common frame mechanically interlocked to prevent simultaneous closure. Quick disconnect terminals (male 0.25). 275KXX74 has SP DB DT auxiliary contacts on each solenoid for electric lock-up and/or interlock. MAIN CONTACTS: 1 HP maximum motor load on 110, 120, 240 or 480V AC. Non-inductive current ratings are 15 amps. @ 120V, 10 amp. @ 240V & 5 amp. @ 480V.

275KXX	Reversing Contactor	\$16.50
275KXX74	With Aux. Contacts.....	19.80

Also Available:

- 300 Volt Industrial Relays
- 600 Volt Modular Contact Relays
- Size "00" Special Purpose Contactors
- Size "0" through "4" General Purpose Motor Contactors

H-B MERCURY PLUNGER RELAYS

Approved by Underwriters' Laboratory Inc.



Fig. 1



Fig. 2

Fig. 1. This consists of a mercury-plunger tube and coil mounted on a heavy bakelite base, 2½-in. x 5-in. x ¾-in., which has 2 mounting holes. Through terminal bridges for one side of both the load and coil circuits are provided for convenience in wiring.

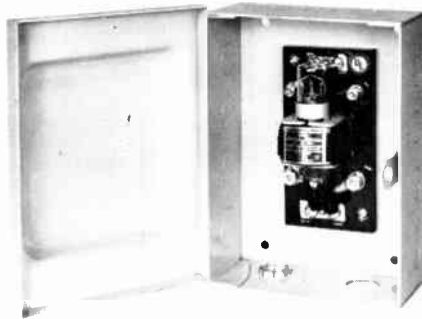
Fig. 2. This model is supplied for "switchboard" or other mounting. It consists of the tube, coil and mounting bracket.

Cat. No.	Mounting	Load Circuit*	Load Rating in Amps.		Coil Voltage	Each
			110	220		
7020	Fig. 1	N/O	30	20	110/60	\$12.65
7030	Fig. 1	N/O	30	20	220/60	12.65
7080	Fig. 2	N/O	30	20	110/60	11.00
7090	Fig. 2	N/O	30	20	220/60	11.00
7250	Fig. 1	N/C	30	20	110/60	13.55
7260	Fig. 1	N/C	30	20	220/60	13.55
7310	Fig. 2	N/C	30	20	110/60	11.70
7320	Fig. 2	N/C	30	20	220/60	11.70

*N/O: normally open. N/C: normally closed.

H-B MERCURY PLUNGER RELAYS IN HOUSINGS

Approved by Underwriters' Laboratory Inc.

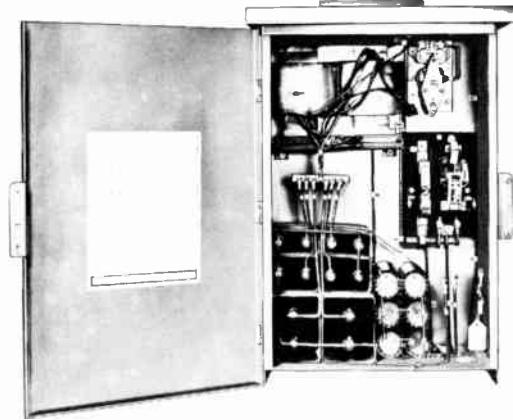


A hinged-cover steel housing, with knockouts on four sides, finished in gray enamel and complete with relay mounted. Special housings to meet individual needs can be supplied.

In listing below, No. designates housing and relay.

Cat. No.	Load Circuit	Load Rating in Amps.		Coil Voltage	Each
		110	220		
7020-H	N/O	30	20	110/60	\$17.65
7030-H	N/O	30	20	220/60	17.65
7250-H	N/C	30	20	110/60	18.55
7260-H	N/C	30	20	220/60	18.55

T-P PHASING UNITS



Many areas now being provided with single-phase power only, may possibly be serviced with three-phase power at some future date. With a T-P Phasing Unit any power user may purchase his three-phase equipment now — either for permanent use or until three-phase service becomes available.

Features: Reduced initial and maintenance costs as compared to single-phase motors — permits compactness of three-phase motors — ease of installation and maintenance — utilizes all the protective devices of a standard motor controller — reduces surge on the line during starting period — improves power factor.

T-P Special Unit

Recommended when full 100 percent nameplate power is required from the motor. These units are delivering a fine job with air-conditioning, deep-well pumping, and other tough applications. External auto-transformer taps and a capacitor terminal board make it easy to balance the three-phase currents for any specific installation.

T-P Standard Unit

This low cost converter permits a three-phase electric motor to develop approximately 85 percent of nameplate rated power. The cost of a "Standard" and a three-phase motor is usually less than the cost of a single-phase motor of the same size.

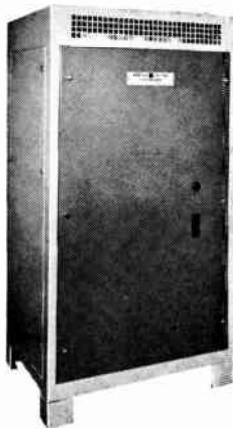
H.P.	Voltage	—Standard Unit—		—Special Unit—	
		Wt. Lbs.	Each	Wt. Lbs.	Each
1	220	24	\$69.60		
1½	220	28	92.80		
2	220	34	98.40	90	\$220.00
3	220	47	117.20	120	248.00
3	440	32	115.20		
5	220	57	156.80	160	296.00
5	440	38	151.20		
7½	220	62	191.25	180	392.00
7½	440	48	181.50		
10	220	90	300.00	230	480.00
10	440	72	292.50		
15	220	112	420.00	280	600.00
15	440	88	416.25		
20	220	153	496.50	340	696.00
20	440	100	495.00		
25	220	180	581.25	420	848.00
25	440	120	581.25		
30	220	.....	.....	460	960.00
30	440	140	615.00	.....	.....
40	440	160	667.50	.....	.....
50	440	180	751.00	.....	.....

T-P ROTATING TRANSFORMER

Also available now is the T-P Rotating Transformer, a true multi-motor phase converter, from which you may operate several three-phase motors, either singly, all together, or in any combination, with no adjustments necessary when the load is changed.

Ideal for farms, quarries, machine shops, garages, and other operations requiring several electric motors at locations limited to single-phase service.

GENERAL ELECTRIC SILICON AC-DC POWER-CONVERSION UNITS



General Industrial silicon-diode rectifiers are used to supply a reliable source of constant-potential d-c power. Several of the most common applications for this type rectifier are:

1. General purpose shop d-c power including small d-c motors for machine tools.
2. Crane power supplies.
3. Magnet power supplies including lifting magnets, magnetic chucks, clutches, etc.
4. Freight and passenger elevators in shops and commercial buildings.

NOTE: These units meet or exceed applicable NEMA Standards for this class of equipment.

PERFORMANCE DATA

- Ripple—6.5 percent rms maximum
- Regulation—Below 8 percent light load to full load
- Efficiency—Up to 95 percent minimum
- Power Factor—93 percent minimum at full load
- Ambient—40 C maximum

Price on Application

THREE-PHASE RATINGS

Con- tinuous Kw Rating	D-c Output		3 Phase, 60 Cycles			Approx. Ship. Wt. (Lb.)
	Volts	Amp	208 Volts	230 Volts	460 Volts	
			Model No. 6RWG			
3	125	24	0030C1XX01	0030C2XX01	0030C3XX01	185
	250	12	0030D1XX01	0030D2XX01	0030D3XX01	185
5	125	40	0050C1XX01	0050C2XX01	0050C3XX01	205
	250	20	0050D1XX01	0050D2XX01	0050D3XX01	205
7.5	125	60	0075C1XX01	0075C2XX01	0075C3XX01	215
	250	30	0075D1XX01	0075D2XX01	0075D3XX01	215
10	125	80	0100C1XX01	0100C2XX01	0100C3XX01	235
	250	40	0100D1XX01	0100D2XX01	0100D3XX01	235
15	125	120	0150C1XX01	0150C2XX01	0150C3XX01	350
	250	60	0150D1XX01	0150D2XX01	0150D3XX01	350
20	125	160	0200C1XX01	0200C2XX01	0200C3XX01	395
	250	80	0200D1XX01	0200D2XX01	0200D3XX01	395
25	125	200	0250C1XX01	0250C2XX01	0250C3XX01	415
	250	100	0250D1XX01	0250D2XX01	0250D3XX01	415
40	125	320	0400C1XX01	0400C2XX01	0400C3XX01	716
	250	160	0400D1XX01	0400D2XX01	0400D3XX01	716
50	125	400	0500C1XX01	0500C2XX01	0500C3XX01	700
	250	200	0500D1XX01	0500D2XX01	0500D3XX01	700
75	250	300	0750D1XX01	0750D2XX01	0750D3XX01	780
100	250	400	1000D1XX01	1000D2XX01	1000D3XX01	900
125	250	500	1250D1XX01	1250D2XX01	1250D3XX01	1300
150	250	600	1500D1XX01	1500D2XX01	1500D3XX01	1390
200	250	800	.....	.....	2000D3XX01	1540
250	250	1000	.....	.....	2500D3XX01	1770
300	250	1200	.....	.....	3000D3XX01	1890

GENERAL ELECTRIC SCR REGULATED BATTERY CHARGERS



The General Electric SCR (Silicon Controlled Rectifier) regulated battery charger is a completely static device. Each design utilizes all silicon semiconductors to attain the ultimate in reliability and long life.

These highly regulated, convection-cooled battery chargers are designed for float-charging nickel-cadmium and lead-acid storage batteries. The completely automatic voltage regulation and automatic current limit provide safe unattended charging of general-purpose storage batteries for:

- Switchgear control
- Telephone Service
- Emergency Light and Power
- Microwave Power
- Fire Alarm
- Signaling

FEATURES

The General Electric SCR regulated battery charger offers many advantages to the user. The excellent voltage regulation results in longer battery life and less battery maintenance. The automatic current limit protects the charger and battery and provides for maximum safe re-charging speed.

The silicon-controlled rectifier (SCR's) provides the same control function as a magnetic amplifier with less weight and less volume, while resulting in higher efficiency and better power factor.

Removable control circuits provide for ease of service and test. All necessary control adjustments and connections are easily accessible through a hinged front panel.

The voltage reference is obtained from a hermetically sealed zener diode. Voltage control is maintained from no-load to 100 percent rated current. Current-limit control takes place at about 110- to 120-percent of rated current to below 87 percent nominal voltage.

These chargers can handle a complete short circuit or dead battery without opening the d-c output breaker.

STANDARD RATINGS

Single-phase, 60 Cycles, 115/208/230 Volts§

Nom- inal Volts	D-c Volts	D-c Amp	Model Number	Net Price, Each	Max Amp (approx)	Dim. in In.			Appr. Wt in Lbs	† Voltage % Regu- lation Steady State
						H	W	D		
129	125-145	25	6RW985BN25G†	\$1050	56/23	19	17	14	200	± 1/2
	125-145	20	6RW985BN20G†	950	44/22.5	19	17	14	180	± 1/2
	125-145	16	6RW985BN16G†	850	36/18	19	17	14	180	± 1/2
	125-145	12	6RW985BN12G†	725	27/13.5	19	17	14	150	± 1/2
	125-145	10	6RW985BN10G†	700	22.5/11.2	19	17	14	140	± 1/2
	125-145	8	6RW985BN8G†	650	18/9	19	17	14	130	± 1/2
129	125-145	6	6RW985BN6G†	606	14/7	19	17	14	120	± 1/2
48	49-64	50	6RW980BN50G†	1075	36/18	24	17	16	180	± 1/2
	49-64	25	6RW980BN25G†	860	18/9	19	17	14	130	± 1/2
	49-64	12	6RW980BN12G†	690	9/4.5	19	17	14	110	± 1/2
	49-64	6	6RW980BN6G†	555	4.5/2.2	19	17	14	100	± 1/2
24	23-28	50	6RW987BN50G†	925	18/9	24	17	16	130	± 1
	23-28	25	6RW987BN25G†	750	9/4.5	19	17	14	110	± 1
	23-28	12	6RW987BN12G†	600	4.5/2.2	19	17	14	80	± 1
24	23-28	6	6RW987BN6G†	510	2.2/1.1	19	17	14	70	± 1
12	12.75-15	50	6RW986BN50G†	800	9/4.5	24	17	16	110	± 2
	12.75-15	25	6RW986BN25G†	510	4.5/2.2	19	17	14	80	± 2

† For code number, refer to Optional Features.
§ The unit will be connected for 230 volts unless otherwise specified.
† From 0% to 100% load with ±10% a-c input variation.

OPTIONAL FEATURES

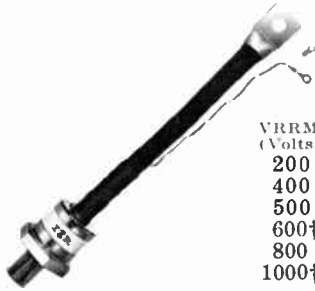
Feature	Adder Net Price, Each	Code
a. 0-48 hour Timer	\$25.00	G2
b. A-c Failure Alarm Relay	25.00	G3
c. 2 Ground Detector Lamps	25.00	G4
d. D-c Undervoltage Relay	25.00	G5
e. D-c Overvoltage Relay	25.00	G6
f. Filter Tray (125 V only)	.....	G7
g. Ground-detector Switch (Switchgear models only)	25.00	G8
h. 28-day Auto. Equalize Timer	25.00	G9

INTERNATIONAL RECTIFIER—ELECTRICAL POWER CONVERSION

Semiconductor components, for replacement in Welders, Motor Drives and Speed Controls, Electro-Chemical and Plating Equipment, Power Supplies, Battery Chargers, Electro-Metallurgical applications, etc.

SILICON CONTROLLED RECTIFIERS

Specific applications for these devices include: Phase controlled rectifiers, such as regulated power supplies, and dc motor armature drives; AC switching; Inverters, low to high frequency; cycloconverters; and DC choppers and pulse modulators.



VRRM (Volts)	16 Amp.	70 Amp.	150 Amp.	300 Amp.
200	16RC20 (2N685)	71RA20 (2N1913)	151RA20	300RA20
400	16RC40 (2N688)	71RA40 (2N1916)	151RA40	300RA40
500	16RC50 (2N689)	71RA50	151RA50	300RA50
600†	16RC60 (2N690)	71RA60	151RA60	300RA60
800	16RC80 (2N692)	71RA80	151RA80	300RA80
1000†	16RC100	71RA100	151RA100	300RA100

POWER SILICON DIODES



VRM (rep) (Volts)	16 Amp.	40 Amp.	100 Amp.	275 Amp.
200	16F20 (1N1202)	40HF20 (1N1186)	45LK20 (1N3289)	275U20A (1N4047)
400	16F40 (1N1204)	40HF40 (1N1188)	45LK40 (1N3291)	275U40A (1N4050)
600†	16F60 (1N1206)	40HF60 (1N1190)	45LK60 (1N3293)	275U60A (1N4052)
800	16F80	40HF80	45LK80 (1N3294)	275U80A (1N4054)
1000†	16F100	40HF100	45LK100 (1N3295)	275U100A (1N4056)
1200	-----	-----	45LK120 (1N3296)	275U120A
1600	-----	-----	-----	275U160A

Note: Numbers in brackets are popular industry types which may be replaced by International Rectifier Types shown. Devices with voltages marked† normally stocked by Graybar.

SOLID STATE IGNITRON REPLACEMENT



Type 200IR70
Replaces Ignitron Types
FG238B, WL653B, 5555, AX5555/653B, WL5555/653B, GL5555/FG238B, GL5555
The International Rectifier Silicon Solid State Ignitron Replacement type 200IR70 is designed to replace ignitrons in existing 250/275 volt dc power supply systems where phase control is not required. The 200IR70 is mechanically interchangeable with the ignitron it replaces and is electrically superior.

KLIP-SELS—TRANSIENT VOLTAGE SUPPRESSORS



All known electrical systems and equipments are subject to transients of widely varying magnitudes, causes and repetition frequencies. Since many of these transient disturbances can result in voltage spikes of sufficient energy content to degrade or destroy semiconductor devices, it is often necessary to apply transient suppression circuit accessories to protect a system or equipment and to improve reliability. Such a device is IR's Klip-Sel, a selenium transient voltage suppressor.

Size	Ratings Amps.	Cat. No.	
		240 Volt	480 Volt
00	10	KSL11DBF	KSL11DBF*
0	15	KSL11DBF	KSL11DBF*
1	25	KP11DBF	KP11DBF*
2	50	KP11DBF	KP11DBF*
3	90-100	Available on Request	
4	200	Available on Request	
5	300	Available on Request	

*For 480 volt rating, use 2 of listed devices in series.

Price on Application

POWER SELENIUM STACK ASSEMBLIES

Circuit and Connecting Diagrams

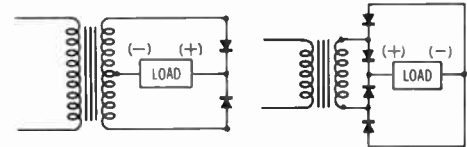


Fig. 1 Center Tap

Fig. 2 Single Phase Bridge

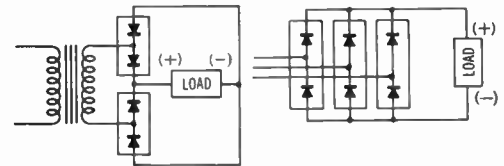


Fig. 3 Two J280D17

Fig. 4 Three J280D17

Specific applications include: Plating Supplies, Electro-Chemical Supplies, Welders, Elevators, Battery Chargers, Aircraft Power Supplies, Furnace Controls, Computers, DC Motor Supplies, and more.

IR Type	Output		Max. Input AC (Volts)	Circuit
	DC (Volts)	DC (Amps)		
J14C5	0-14	4.8	36	1
J14C17	0-14	17.0	36	1
J29B5	0-29	4.8	36	2
J29B17	0-29	17.0	36	2
J58B5	0-58	4.8	72	2
J58B17	0-58	17.0	72	2
J116B5	0-116	4.8	144	2
J116B17	0-116	17.0	144	2
J135B5	0-135	4.8	180	2
J135B17	0-135	17.0	180	2
J280D25	**	**	360	3 & 4

**Two units as single phase bridge
Three units as three phase bridge

DC Volts	DC Amps
0-280	25
0-450	35

BATTERY CHARGER REPLACEMENTS

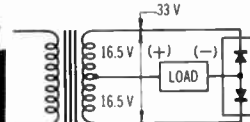


Fig. 1 — BCR Circuit

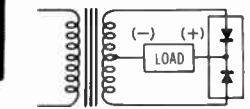
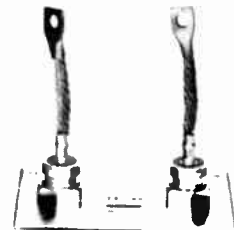


Fig. 2 — BCF Circuit



B — Silicon

Truly universal and economical selenium and silicon rectifiers for "Fast Chargers". Fully rated at 100 and 60 Amps, with fan cooling, these rectifiers offer instant replacement or instant design solution for battery chargers. Both forward and reverse configurations are listed.

Type	Output		Max. Input AC Volts (2)	Circuit Diagram Fig.	Illustration
	DC Volts	DC Amps. (1)			
BCR100	6-12	50-100	33	1	A
BCR60	6-12	30-60	33	1	A
BCF100	6-12	50-100	33	2	A
BCF60	6-12	30-60	33	2	A
BC101	6-12	100	33	2	B

(1) Forced convection cooled.

(2) Line-to-Line voltage (see figures 1 and 2.)

SCHAUER
FULLY REGULATED TRANSISTORIZED
POWER SUPPLIES FOR COMMUNICATIONS AND
INDUSTRIAL SERVICE



These fully transistorized, series regulated power supplies provide exceptional accuracy, stability and freedom from noise, ripple, transients and oscillation. They are fully protected against load faults. Regulation 0.05%; Recovery time 50 microseconds or less; Silicon and germanium semiconductors; DC Voltmeter and Ammeter optional.

—D.C. Output—				—D.C. Output—			
Type	Amps.	Volts	Each	Type	Amps.	Volts	Each
TRA-				TRA-			
1024	1	24	\$177	1048	1	48	\$198
2024	2	24	196	2048	2	48	237
3024	3	24	218	3048	3	48	314
4024	4	24	240	4048	4	48	398
5024	5	24	262	Other sizes available			

OUTPUT REGULATED POWER SUPPLIES



Provides well filtered direct current for communications or industrial service. Relatively constant output voltage under varying load conditions obtained through use of saturatable reactor type regulator. Output filtered so that there will be no objectionable hum in an audio circuit.

Type				Type			
Amps.	Volts	Each	Amps.	Volts	Each	Amps.	Volts
RA-				RA-			
12024	12	24	\$485	12048	12	48	\$766
24024	24	24	766	20048	20	48	1010
6048	6	48	485	Other sizes available			

Silicon rectifiers; ripple 35 mv or less; regulation 5%; voltmeter

LOW CAPACITY NON-REGULATED POWER SUPPLIES



These power supplies provide a well filtered, low capacity source of direct current to operate many classes of equipment where the load is fairly constant or where variations in the output voltage due to line and load changes are of minor importance.

Optional features include A.C. bell ringing taps for telephone service and transfer relay to

automatically switch to stand-by batteries in case of power failure.

Metallic rectifier; ripple 35MV or less.

For low voltage (3-6-9 volts) and low current (150MA maximum) requirements, select from this group:

Type A3V (3 Volt)...\$9.00 A6V (6 Volt)...\$13.75
 A9V (9 Volt)...\$19.25

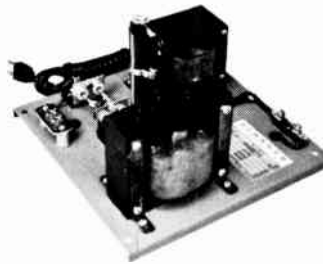
—D.C. Output—				—D.C. Output—			
Type	Amps.	Volts	Each	Type	Amps.	Volts	Each
PA05004	0.5	4	\$28.00	A1012	1	12	\$92
A05006	0.5	6	39.50	A2012	2	12	132
A1006	1	6	82.00	A05024	0.5	24	88
A05012	0.5	12	82.00	Other sizes available			

AUTOMOTIVE TYPE BATTERY CHARGERS



Schauer Mfg. Corp. has available a large assortment of chargers for automotive, marine, farm and industrial uses. These range in size from a 1 amp. slow charger to an 80 amp. fast charger. Quality

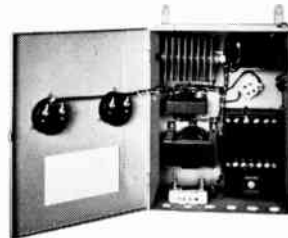
SCHAUER
CHARGERS OR POWER SUPPLIES
LOW CAPACITY NON-REGULATED TYPE



This group offers low capacity output for battery charging, or as a source of direct current for operation of equipment of the non-audio type. A filter choke reduces the ripple sufficiently to permit float charging of batteries in telephone service.

—D.C. Output—				—D.C. Output—			
Type	Amps.	Volts	Each	Type	Amps.	Volts	Each
G05008	0.5	6-8	\$51.50	G2012	2	12	\$89.00
G1008	1	6-8	58.00	G4012	4	12	98.00
G2008	2	6-8	77.00	G1024	1	24	89.00
G3008	3	6-8	89.00	G2024	2	24	98.00
G05012	0.5	12	59.50	G1048	1	48	98.00
G1012	1	12	70.50	G2048	2	48	129.00

BATTERY CHARGERS-OUTPUT REGULATED



For communication or similar service where minor variations in the charging rate due to line voltage variations are permissible, and where the output must be filtered to that degree where the combined effect of the battery and

charger filter permits operation without the introduction of an objectionable hum in the audio circuit. The magnetic regulator circuit will adjust the charging rate automatically to maintain the batteries at a fairly constant level. An equalizing charge can be applied at intervals by a simple switching arrangement.

Type				Type			
Amps.	No. Cells	Each	Amps.	No. Cells	Each	Amps.	No. Cells
RB-				RB-			
3024	3	12	\$292	3048	3	24	\$384
4024	4	12	341	4048	4	24	420
6024	6	12	384	6048	6	24	495
12024	12	12	495	12048	12	24	860

Other sizes available

FOR AM & FM 2 WAY & MARINE RADIOS



AC Input 115 volts, 60 cycle, single phase. DC Output 6 volts up to 48 amperes or 12 volts DC up to 24 amperes. Equipped with dial type tap switch which provides adjustment from less than 1 ampere up to maximum rated output. Case finished durable grey wrinkle, is designed for bench or wall mounting.

built throughout, they are rugged and attractive. The full automatic models are the ultimate in charger technology.

Model	Amps.	Volts	Each
11612	1	6/12	\$ 9.50
A5612	4	6/12	18.95
B4612	6	6/12	25.95
C4612	10	6/12	33.95
BR212 Automatic	6	12	34.95
TB10012 Automatic	10	12	78.50
J4612	20	6/12	73.95
FC88	80	6/12	147.75

BATTERIES

FLASHLIGHT TYPES



		Catalog No.				Volts	Size	Each
Eveready	Mallory	Ray-O-Vac	Marathon					
904	M-910F	716	131	1.5	N	\$0.08		
912	M-24F	400	180	1.5	AAA	.095		
915	M-15F	7AA	170	1.5	AA	.13		
935	M-14F	1C	111	1.5	C	.1625		
950	M-13F	2D	121	1.5	D	.1625		
D99	---	5D	---	1.5	D(HD)	.19		
1150	M-13X	3D	122	1.5	D*	.1265		

*Industrial.

"HERCULES" BATTERIES



HS-50



HS-90

"Hercules" batteries are designed for industrial use. Check your local Graybar Office for pricing and quantity schedules.

		Catalog No.				Volts	Type
Eveready	Mallory	Ray-O-Vac	Marathon				
HS-6	M-6X	WM50	66	1.5	Ignitor		
HS-15	M-15F	WM40	170	1.5	AA		
HS-35	M-14F	WM15	111	1.5	C		
HS-50	M-13X	WM10	121	1.5	D		
HS-150	M-13X	WM30	122	1.5	D (HD)		
HS-90	M-916 X	WM20	490RR	6	Lantern*		

*Spring Terminals.

LANTERN, LIGHTING AND HOBBY BATTERIES, ETC.



		Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon				
509	M-908	941	490R	6*	\$0.92		
510S	M-915	942	496S	6**	.92		
510F	---	943	496C	6†	.92		
731	M-918	918	896	6*	1.96		
520	---	---	---	6*	3.31		
706	---	902	902	6*	4.01		
715	M-903	903	903	7½°	4.86		
716	M-904	904	904	9°	5.53		
735	---	900	491	1½°	.84		

*Spring Terminals. **Screw Terminals. †Spring Clips.
 ‡Light ag. *Alkaline. °Emergency. °Instrument.

"HOT SHOT" BATTERIES



		Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon				
1461	M-907	641	640	6	\$3.70		
1462	---	---	640EF	6	4.01		
1463	---	922	642	12	4.01		
1562	---	---	---	7½	4.86		
1662	---	661B	---	9	5.53		

ALKALINE, SILVER OXIDE AND MERCURY BATTERIES



No. E91



No. E93



No. E95

		Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon				
E1	RM-1	---	---	1.4	\$0.52		
E3	RM-3R	---	---	1.35	1.05		
E4	RM-4R	---	---	1.35	1.31		
E9	ZM-9	15M	---	1.4	.64		
E12	RM-12	---	---	1.4	.87		
S41	MS-41	---	---	1.5	.27		
E42	RM-42	---	---	1.4	2.68		
S76	MS-76	---	---	1.5	.30		
E90	MN-9100	---	---	1½	.27		
E91	MN-1500	815	---	1½	.33		
E92	MN-2400	---	---	1½	.33		
E93	MN-1400	---	---	1½	.39		
E94	---	---	---	1½	.39		
E95	MN-1300	---	---	1½	.49		
E126	TR-126	1611M	---	8.4	1.31		
E132	TR-132	T132M	---	2.8	1.05		
E133	TR-133	T133M	---	4.2	1.31		
E134	TR-134	T134M	---	5.6	1.57		
E146X	TR-146X	T1604M	---	8.4	1.31		
E163	TR-163	---	---	4.2	1.31		
E164	TR-164	---	---	5.6	1.31		
E165	TR-165	---	---	7.0	1.70		
E177	TR-177	1606	---	9.0	1.31		
E233	TR-233	---	---	4.2	2.35		
E400	RM-400	---	---	1.4	.24		
E401	RM-401	T401M	---	1.4	.50		
E502	RM-502R	---	---	1.35	.87		
S23	MN-1306	---	---	4.5	.82		
E625	RM-625	T625M	---	1.4	.42		
E630	RM-630	---	---	1.4	.42		
E640	RM-640	T640M	---	1.4	.42		
E675	RM-675	T675M	---	1.4	.32		

BATTERIES

"IGNITOR" No. 6 DRY CELL



Designed especially for ignition and is particularly desirable for heavy duty uses.

Equipped with screw terminals unless Fahnestock spring terminals are specified.

Standard package, 12. Weight, 25 lbs.

Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon		
6	M-905	6	66	1½	\$0.91

"COLUMBIA" "GRAY LABEL" LONG LIFE TELEPHONE CELL



This dry cell delivers long service life with uniformity and dependability in the highest degree.

Equipped with Fahnestock spring terminals unless screw terminals are specified.

Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon		
6	M-906	6	6T	1½	\$0.91

RAILROAD AND INDUSTRIAL No. 6 CELL



Especially designed for Railroad and Industrial use where a wide range of service conditions, from extremely heavy to extremely light are encountered. Round jacket.

Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon		
6	M-911	6RR	66	1½	\$0.94

"A-B" PACKS FOR PORTABLE RADIOS



Catalog No.				Volts		Each
Eveready	Mallory	Ray-O-Vac	Marathon	"A"	"B"	
729	-----	425	5425	1½	90	\$4.38
752	-----	A400	5400	9	90	5.78
753	-----	401	5401	7½ & 9	90	5.43
-----	-----	402	5402	7½ & 9	90	6.97
755	-----	403	5403	6 & 7½	75	5.08
756	-----	405	5405	7½ & 9	90	4.87
757	-----	406	5406	9	90	5.57
759	-----	413	5413	1½	90	7.95

VACUUM TUBE TYPES



No. 412 No. 467 No. 707 No. 964

Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon		
411	M-208	208	4208	15	\$0.81
412	M-215	215	4215	22½	1.05
413	M-210	A210	4210	30	1.23
415	-----	213	4213	45	1.75
416	-----	217	4217	67½	2.07
437	-----	212	4212	75	3.15
455	-----	201	4201	45	2.27
457	-----	203	4203	67½	2.70
467	M-200	200	4200	67½	2.70
468	-----	-----	4200A	67½	2.77
477	M-211P	211P	4211	67½	2.70
479	-----	214	4214	90	2.97
482	-----	202	4202	45	2.97
487	-----	-----	-----	45	3.84
490	-----	204	4204	90	3.15
495	-----	-----	4216	90	3.47
707	-----	26	3026	7½	1.15
713	-----	8	3008	7½	2.27
717	M-9	9	3009	7½	1.23
724	-----	A2	3002	6	.87
726	-----	19	3019	4½	1.23
736	-----	A3	3003	4½	1.23
742	-----	A4	3004	1½	1.15
744	-----	A6	3006	6	1.15
746	-----	A7	3007	4½	1.57
964	M-20	20	3020	1½	.42
2506	-----	1601	-----	9	1.92

RADIO BATTERIES TRANSISTOR TYPES



No. 206 No. 216 No. 226 No. 1035 No. 1015

Catalog No.				Volts	Each
Eveready	Mallory	Ray-O-Vac	Marathon		
206	M-1611	-----	1611	9	\$0.62
216	M-1604	1604	1604	9	.48
226	M-1600	1600	1600A	9	.62
228	-----	-----	-----	12	1.05
239	-----	1900	-----	13½	1.30
243	-----	-----	-----	4½	1.30
246	M-1602	1602	1602	9	1.30
266	M-1605	1605	1605	9	1.36
274	-----	-----	1400	6	4.02
276	M-1603	1603	1603	9	1.36
333	-----	-----	-----	4.5	.62
1035	M-14R	14	113	1½	.19
904	M-910F	716	133	1½	.08
1015	M-15R	15	173	1½	.155
1050	M-13R	13	123	1½	.19

"EVEREADY" FLASHLIGHTS

SPECIFY "EVEREADY" BATTERIES

Flashlight	Batteries
Touch-Tip Penlite	2-912
Touch-Tip H-D Penlite	2-915 or E91
Baby	2-935 or E93
2-Cell	2-950 or D99 or E95
3-Cell	3-950 or D99 or E95
5-Cell	5-950 or D99 or E95
308CT	2-950, 1050, D99 or E95

MAGNET LITES



Holds fast to steel — leaves hands free. Exclusive Magnet Switch combination — easy-to-use.
 No. 5MF (2-D Cells) w/o batteries.....\$1.33
 No. 7MF (2-D Cells) w/o batteries..... 1.66

UTILITY LITE



Resists oils, most chemicals — for tool box or shop. Insulated case. Non-breakable lens. Bulb protector.
 No. 330 (2-D Cells) w/o batteries.....\$0.70

MAGNET UTILITY LITE



Magnet-switch combination — easy-to-use. Resists oils, most chemicals. Insulated case. Non-breakable lens. Bulb protector.
 No. 337 (2-D Cells) w/o batteries.....\$0.94

TORCH LITES



Comes with 5" or 3" signal wand, visible up to 1/2 mile. Piercing white beam. Jumbo switch.
 No. 2T3 (2-D Cells, 3" wand) w/o batteries...\$0.99
 No. 2T5 (2-D Cells, 5" wand) w/o batteries... 1.05

"EVEREADY" 2-CELL FLASHLIGHT WITH CONTINUITY TESTER

Continuity Tester has plug, clips and insulated leads for instant use.
 No. 308CT (2-D Cells) w/o batteries..\$4.15



INDUSTRIAL FLASHLIGHTS



Heavy duty "safety-glo" lens guard. Rugged case will not shatter, crack or dent.
 No. 1251 (2-D Cells) w/o batteries.....\$1.93
 No. 1351 (3-D Cells) w/o batteries..... 2.19

INDUSTRIAL "SAFETY" FLASHLIGHTS



Approved by U.S. Bureau of Mines. Listed by Underwriters' Laboratories. Same features as No. 1251 with special "safety" extras.
 No. 1259 (2 D-Cells) w/o batteries.....\$2.74
 No. 1359 (3 D-Cells) w/o batteries..... 2.89

STANDARD ALL-METAL FLASHLIGHTS



Deluxe 3-way switch. Chrome finish.
 No. 2251 (2-D Cells) w/o batteries.....\$1.30

ECONOMY SEARCHLIGHTS



Low price. Ring hanger, end-loading. Non-rolling head. All-metal case. Jumbo switch.
 No. 5352 (3-D Cells) w/o batteries.....\$1.97
 No. 5552 (5-D Cells) w/o batteries..... 2.64

TOUCH-TIP PENLIGHT



All chrome.
 No. 312 w/o batteries.....\$0.85
 No. 315 w/o batteries..... .85

BULLS-EYE HEAD-LITE



Frees hands. Long-range beam. Rustproof. Rain-proof battery pouch fits on strap or belt. Uses No. 510S "Eveready" battery and No. PR13 lamp.

No. 3452 Head-Lite w/o batteries\$2.14

No. 1348 Battery Pouch53

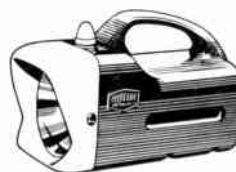
"EVEREADY" LANTERNS

"BIG JIM" LANTERNS

Powerful beam. Weather-proof construction. Red warning flasher. Uses 1 No. 731 "Eveready" battery, No. 4564 Headlamp, No. 407 Signal lamp.
 No. 100 (w/flasher)\$6.45
 No. 101 (w/o flasher) 4.80
 No. 731 Battery 1.96

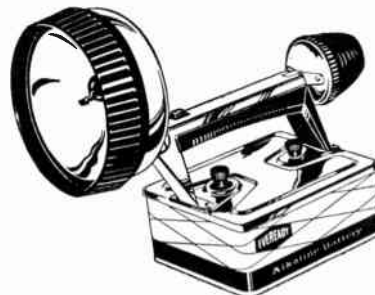


"ALL AMERICAN" WEATHERPROOF LANTERN



Tough "Cordahide" polyethylene case. Powerful searchlight — easy-grip handle. Unbreakable lens, bulb protector, reflector will not tarnish. Weather-proof push-button switch.
 No. 108 Lantern*\$2.53
 No. 509 Battery92
 *Without battery.

"CAPTAIN" LANTERNS



Stainless steel, weatherproof construction. Gives 2 1/2 times greater light output. Uses 1 No. 520 "Eveready" Alkaline Battery, No. 4618 Headlamp, No. 407 Signal lamp.

No. 150 (w/flasher)\$8.39
 No. 151 (w/o flasher) 7.19
 No. 520 Battery 3.31

RAY-O-VAC FLASHLIGHTS

Z21P 2-CELL PENLIGHT



Uses 2 No. 7R or 7AA batteries and No. 222 bulb. Patented rotary switch. Standard package 24; weight 2¼ lbs.

No. Z21P Penlight, less batteries..... \$1.13

Z22R 2-CELL SPOTLIGHT



Uses two 2D batteries and No. PR2 bulb. Standard package, 24; weight 9½ lbs.

No. Z22R Spotlight, less batteries..... \$1.34

WF22 HEAVY DUTY FLASHLIGHT

With Switch Guard



Features new switch guard to prevent accidental turn-on when slipped into pocket. Special plastic housing is oil and chemical resistant and switch is replaceable. Standard package 24, weight 9½ lbs.

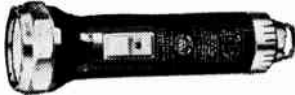
No. WF22 Flashlight, less batteries \$1.44

DUAL ACTION SAFETY HEAD FLASHLIGHTS



Cat. No.	Description	Bulb Used	Battery Used	Wt. Lbs. Std. Pkg.	Less Battery
BM22	2-Cell	PR6	2 — 2D	16	\$3.44
BM32	3-Cell	PR7	3 — 2D	9½	3.55

SAFETY LIGHTS



Heavy-duty safety light approved by Underwriters and Bureau of Mines for use in explosive atmospheres. Completely replaceable parts. Standard package 12.

Cat. No.	Description	Bulb Used	Battery Used	Wt. Lbs. Std. Pkg.	Each
AN22	2-Cell	PR6	2D or 3D	6½	\$3.44

WORKMAN* FLASHLIGHT

Heavy-duty flashlight, highly resistant to breakage, chemical action and extreme temperature ranges. Spare lamp holder in removable end cap. Standard package 12.

Cat. No.	Description	Bulb Used	Battery Used	Wt. Lbs. Std. Pkg.	Each
N22	2-Cell	PR6	2D or 3D	6	\$2.40

*Reg. U.S. Pat. Off.

BR22 PREFOCUSED SPOTLIGHT



Has rubber end cap and hood and fibre barrel. Uses PR2 bulb and two 2D or 3D batteries. Standard package, 24; weight 11¼ lbs.

No. BR22 Spotlight, less batteries\$1.53

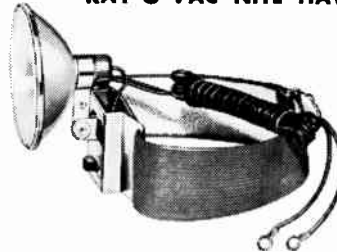
G22 2-CELL PREFOCUSED SPOTLIGHT



Uses PR6 bulb and two 2D or 3D batteries. Standard package, 24; weight 15½ lbs.

No. G22 Spotlight, less batteries\$2.64

RAY-O-VAC NITE HAWK® HEADLITE



Weighing only three ounces, the Nite Hawk has a three inch reflector, lucite lens, adjustable head band. Uses 6-volt lantern battery No. 941 and bulb PR13.

Available in individual cartons or three on display card. No. L298 Nite Hawk Headlite.....each \$2.64

BATTERY POUCH

For Nite Hawk Headlite

Made of water resistant vinyl, the L19 features a cover flap with snap fastener plus sturdy belt loop. Packed in individual cartons, the L19 is designed to accommodate one No. 941 6-volt lantern battery.



No. L19 Battery Poucheach \$0.67

RAY-O-VAC LANTERNS

No. 303 SPORTSMAN LANTERN



Sealed beam lantern. Red signal flasher positions to any angle on swing-swivel mounting. Shock absorber mounted sealed beam. Separate switches for head and flasher. Uses sealed beam No. 4546 or 4506 and flasher bulb No. 407.

No. 303 Lantern, with battery \$8.90
No. 301 Lantern, same as No. 303 but without Red Signal Flasher, with battery 7.55

No. 304 SPORTSMAN LANTERN

Prefocused lantern. Combination flood lamp and spotlight. Cast a bright pool of light when head is in vertical position or piercing beam when head is swiveled to a horizontal position. Uses prefocused bulb No. PR15, PR13 or PR12.

No. 304 Lantern, with battery \$6.98

No. 305 Lantern—Same as No. 304 but with Red Flasher, with battery..... 7.55



BIG BEAM FLASHERS AND HAND LAMPS



BIG BEAM FLASHERS

Compact, low-cost quality unit. Ideal for highway emergencies. Uses 6-v. dry cell battery.

108F

Transistorized barricade flasher. Weeks of continuous operation. Can be mounted on most barricades. Two directional 7" amber beacon lens. Uses two 6-v. dry cell batteries.



TF7

No.	Description	Each*
108F	360° red flare	\$ 3.96
103/3	Kit with three 108F flares in case	15.40
TF4	Transista flasher, 4" amber lens	14.00
TF7	Transista flasher, 7" amber lens	15.91
TF360	Transista flasher, 360° amber fresnel	12.76
200	6-v. dry cell battery	1.13



BEACON LAMP

Penetrating sealed beam or standard bulb and red flasher. Sturdy steel case, red baked enamel finish; beacon arm, head, handle chrome plated. Requires one 6-v. battery. Weatherproof switches with protective rubber boots.

164

No.	Description	Each*
164	Sealed beam w/beacon	\$8.76
104	Standard bulb w/beacon	8.36
166	Sealed beam less beacon	6.36
111	Standard bulb less beacon	6.00
200	6-v. dry cell battery	1.13

BIG BEAM MOUNTY BATTERY MOUNTED HAND LAMP



664

Super 40,000 candle power sealed beam, visible one mile. Red safety flasher. Lamp clamps on metal cased, twin-pack battery. Chrome plated, heavy gauge steel.

No.	Description	Each*
664	Sealed beam w/beacon	\$8.60
666	Sealed beam less beacon	6.40
202	Twin-Pack 6-v. battery	2.66

GENERAL SERVICE LAMP THROWS POWERFUL 1500 FOOT BEAM OR BRILLIANT SPREAD LIGHT



211

Quality built with 5" chrome-plated head and triple plated reflector. Switch controls main and auxiliary bulbs. Simple focus allows choice of 1500 ft. beam or spread light. Holds two 6-v. batteries, one as spare.

No.	Description	Each*
211	Main and auxiliary bulb	\$11.16
287EX	All brass, explosion-proof lamp; approved by UL, Class 1, Group D. Approved by U.S. Coast Guard.	27.00
200	Set of 2 6-v. dry cell batteries	2.26

*Prices less batteries

POWERFUL INDUSTRIAL HAND LAMP PENETRATING 2000 FOOT BEAM



700A

Engineered for hard use by fire departments, railroads, general industry. 6" true parabolic reflector projects 2000 ft. beam. Pre-focused bulb, heavy-duty case.

No.	Description	Each*
700A	2 bulbs, chrome head and handle	\$17.56
700	1 bulb, black enamel head	15.96
6	Set of 4 1½-v. dry cell batteries	4.86

POWERHOUSE HEAVY DUTY CLAMP-ON LAMP



1711C

Ideal for utility, municipalities, railroads, industrial and service use. Clamps on 7½-v. battery. Lamp features: Head that swivels 270°; switch guard; 2000 ft. beam; main bulb and auxiliary bulb.

No.	Description	Each*
1711	Main and aux. bulbs, gray finish	\$14.36
1711C	Main and aux. bulbs, chrome finish	15.96
1766	Sealed beam, gray finish	14.36
1766C	Sealed beam, chrome finish	15.96
751	7½-v. dry cell battery	6.53

MOST POWERFUL DRY CELL LAMP



1000

World's most powerful dry cell hand lamp. A 9-v. dry cell gives a 2500 ft. beam with pre-focused bulb or sealed beam. Auxiliary bulb conserves power. Adjustable head has fingertip control for each bulb. 7" chrome-plated head.

No.	Description	Each*
1000	Main and aux. bulb	\$20.76
1066	Sealed beam bulb	20.76
466	9-v. dry cell battery	7.43

BIG BEAM "NIGHT LARK" PORTABLE POWER FAILURE LIGHT



817

When power fails "Night Lark" goes on instantly. Can also be used as portable hand lamp, operates over 3 hours on 6-v. twin-pack battery. Projects white light 180°. 25,000-hour life indicator bulb. Heavy gauge steel case.

No.	Description	Each*
817	Beige baked enamel finish	\$18.36
818	White baked enamel finish	18.36
819	Turquoise baked enamel finish	18.36
820	Pink baked enamel finish	18.36
202	6-v. dry cell battery	2.66

*Prices less batteries

See U-C-Lite Catalog Page Featuring Automatic Emergency Lights

KOEHLER WHEAT

RECHARGEABLE LIGHTS

Economical — Rechargeable 500 times, eliminates dry cell replacements and pays for itself in 40 hours use.

Dependable — Powerful, long lasting, non-fading light. Always ready at full power, like having a new battery for each use.

Rugged — Polished stainless steel construction, tough high impact polycarbonate battery case, sturdy lens guard. Proven by years of hardest use and abuse by miners, fire departments, utilities, construction workers, industry, railroads, airlines, Armed Forces, U.S. Government, etc.

Automatic Charging — Simply connect to Wheat Charger.

Lightweight — Compact — Less than six pounds, battery size 2" x 5" x 7".

Belt Loops — Neatly molded in for user convenience.



SPOTLIGHTS

Adjustable focus, shock-proof handle, 6 hours light per charge, waterproof switch, stainless steel housing.

130-G2

- Model 130-G2 Spotlight (Battery included)each **\$41.95**
- Model 175-G1* Safety Spotlight.....each **49.95**
- Model 125-G1 Charger for Models 130-G2, 175-G1each **\$31.90**

*Similar to Model 130-G2, approved by U. S. Bureau of Mines, Coast Guard.

SAFETY CAP LAMP



5100-G2

U. S. Bureau of Mines approval. 12 hours light per charge, adjustable focus, stainless steel construction.

- Model 5100-G2 Battery included (Cap not included)each **\$41.95**
- Model 1578 Charger for Model 5100-G2...each **31.90**

VEHICLE-MOUNTED, PORTABLE LIGHTING EQUIPMENT



Fully automatic, completely dependable. Keeps Wheat Lights on vehicle fully charged. For use with Koehler Wheat Lights — Models 130-G2, 160-G1 or 175-G1. Charger and light permanently mounted on vehicle. Light is recharged automatically with transistorized charger with power from 6 or 12 volt vehicle electrical system. Battery drain is negligible. Circuit can't be shorted, fouled or overcharged. Meter indicates state of charge. Ideal for fire, police, municipal, utility, industrial cars and trucks where an economical, dependable, rugged light is needed. Charger size, 3" x 4" x 6"

- Model 202-G1 Negative Groundeach **\$32.00**
- Model 201-G1 Positive Groundeach **50.00**
- Model 200-G1 Voltage Reducereach **18.50**

EMERGENCY LIGHTING EQUIPMENT PORTABLE, RECHARGEABLE



Model 250-G1 Charger, coupled with Model 130-G2 Spotlight forms a portable emergency lighting system which lights automatically when power fails. When power is restored, it turns the light off and recharges the battery. It keeps lantern fully charged for two-fold use. 1. As a full time conventional lantern. 2 As an emergency light. 7½ hours light per charge, rechargeable 500 times. Indicator bulb glows when unit is connected, meter indicates state of charge, circuit can't be shorted or fouled. Ideal wherever a dependable, useful emergency light is needed. Hazardous manufacturing, storage and service areas, critical work areas, dangerous dark catwalks.

- Model 250-G1 Automatic Portable Emergency Light Chargereach **\$50.00**

KOEHLER COMMANDO HAND LANTERNS



1225-GB

Stainless steel, rugged all-American construction. Adjustable focus. Shockproof handles, rubber lens protector. Neat functional design. No exposed wires. Rainproof battery cover.

- Model 1225-B Hand Lanterneach **\$17.00**
- Model 1225-GB Hand Lanterneach **18.00**



JUSTRITE

4-CELL ELECTRIC HEADLIGHT

Powerful "spot" beam. Headpiece straps around cap. Battery case clips on belt. 2½-inch polished reflector. Uses 4 flashlight cells. With 5-volt bulb. Weight 1 lb.

No. 1904-4 Headlight, less batteries.....each **\$3.30**

"LIGHT-STICK" FLASHLIGHT

The modern industrial flashlight; a 6-volt, 4-cell design that pays for itself in lower operating costs. 167% more power, 20% less battery cost than conventional 2-cell flashlights. Has belt hook, carrying ring, rubber lens protector. Will stand on base or lay flat. Head tilts to angle required.

Focusing, extra bright reflector. Lucite lens. 24 ga. galvanized steel case finished in chip-proof grey enamel.

Overall dimensions are 3"x2½"x-9". Packed one per carton, weight 1 lb.



No. 2105-4 "Light-Stick" less batteries. each **\$3.96**

RAILROAD TRAINMAN'S LANTERNS

Uses standard 6-volt battery and bulbs. Powerful "spot" beam from one bulb. Other bulb extended for ordinary signals. Re-enforced aluminum tubing handle. Welded steel guard. 3½-inch chrome reflector. Wt. 2 lbs. Space for 2 spare bulbs.

No. 2140-1 Trainman's Lantern, less bulbs — less battery..... each **\$3.96**

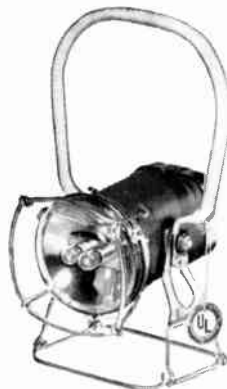
No. 2140-3 same as above, but with special clear Lucite globe over reflector. Less bulbs, less battery.....each **\$4.63**



ALL-PURPOSE SAFETY HAND LANTERN

Approved by Underwriters', Bureau of Mines and Bureau of Marine Inspection. Uses standard 6-volt battery. Two bulbs—either gives both "spot" and diffused light. Tilts on base to any angle. Wide movable handle. 3½-inch chrome reflector and Lucite globe. Standard package 12; wt. 33 lbs.

No. 1744-8 Safety Lantern, less battery.....each **\$7.33**



DIETZ

HAZARD LIGHTING EQUIPMENT

DIETZ NO. 650 VISI-FLASH

7-Inch all plastic transistorized barricade warning light. Flashes approximately 1500 hours on two lantern batteries. Transistorized, low-drain circuitry guaranteed for 5 years. Brightest, most effective highway flasher on the market supplied with theft-proof barricade mounting bolt.



Cat. No.	Description	Std. Pkg.	Std. Pkg. Wt.	Each
650	650 Visi-Flash	10	24 lbs.	\$16.10

DIETZ NO. 678 HIGH-INTENSITY VISI-FLASH

Brilliant high-intensity daytime flasher with 7-inch detachable signal head. Detachable head and extensible 10' coiled cord permit high level mounting for an effective advanced warning signal. Flash rate 60 per minute; battery life 200 hours on two N.E.D.A. 904 batteries.



DIETZ NO. 315 TRIPOD LIGHT STAND

60" closed extends to 94" maximum height. Rugged welded steel tubing with adjustable center post extension.

DIETZ NO. 314 FLAG HOLDER

Flag holder clips to center post of Dietz 315 Tripod and holds 2 standard flags.

Cat. No.	Description	Std. Pkg.	Std. Pkg. Wt.	Each
678	678 Visi-Flash	1	17 lbs.	\$58.90
315	315 Tripod Light Stand	1	23 lbs.	\$45.50
314	314 Flag Holder	1		\$4.45

DIETZ NO. 211 EMERGENCY REVOLVING LIGHT (12 Volt)

Brilliant 4-sealed beam vehicle revolving light. Lower overall silhouette with greater lens area. Brass chrome plated base, motor and gear train assembly guaranteed for 1 year. Acrylic dome lenses available in red, amber, blue, clear, ½ red with ½ amber. Magnetic mounting version also available.



Cat. No.	Description	Std. Pkg.	Std. Pkg. Wt.	Each
211	211 Revolving Light	1	14 lbs.	\$80.00

DIETZ NO. 254 BARRICADE Light not included.

31-Inch, striped masonite top panel, plywood bottom panels. Tough angle iron legs.

254



DIETZ NO. 375 BARRICADE (Steel)

48-Inch steel barricade with folding tube steel legs. Breaks down into 3 pieces for easy storage and transport. Light not included.



375

DIETZ NO. 375-U BARRICADE (Steel)

48-Inch steel barricade with folding tube steel legs. Can be used as a horizontal barricade or vertical warning stand. Breaks down into 3 pieces for easy storage and transport. Light not included.



375-U

Cat. No.	Description	Std. Pkg.	Std. Pkg. Wt.	Each
254	254 Barricade	1	28 lbs.	\$9.00
375	375 Barricade	1	24 lbs.	\$13.45
375-U	Horizontal-Vertical Barricade	1	28 lbs.	\$16.50

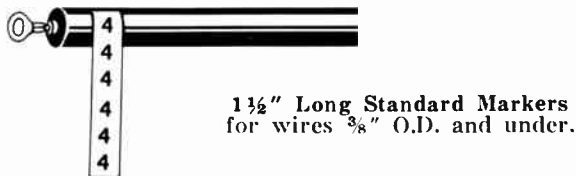
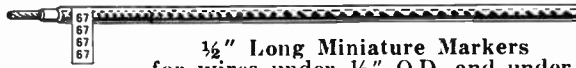
BRADY WIRE MARKERS

Simplified method for marking electrical wires and cables. Self-adhesive strips printed with numbers, letters, symbols or NEMA colors are mounted on dispenser cards. Simply remove and wrap or flag on wire. Thousands of stock legends on Brady B-500+ vinyl cloth or B-600 sub-surface printed Mylar*. Special legends made to order.

(Use Brady Cable Markers for wires up to 1" O.D.)

All legends on 1½" long Markers are also available in ¾" long size at no extra charge. To order, specify "¾" after stock numbers.

SIZES TO FIT ALL WIRES



STOCK LIST OF BRADY WIRE MARKERS

Solid Number Cards

(All Markers on each Card are the same.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Legend on Each Marker	Markers per Card	
			¾ in.	1½ in.
0	PS-0	0	72	36
1	PS-1	1	72	36
2	PS-2	2	72	36
and so on thru				
99	PS-99	99	72	36
100	PS-100	100	50	25
and so on thru				
600	PS-600	600	50	25



Solid Letter Cards

(All Markers on each Card are the same.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Printing on Each Marker	No. of Markers on Each Card	
			¾ in.	1½ in.
A Cap	PS-A Cap	A	72	36
B Cap	PS-B Cap	B	72	36
and so on thru				
Z Cap	PS-Z Cap	Z	72	36
A Sml.		a	72	36
B Sml.		b	72	36
and so on thru				
Z Sml.		z	72	36

BRADY WIRE MARKERS



Consecutive Numbers
(Markers on each card are different and follow numerical sequence.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Printing on Each Marker	No. of Markers of Each Number on Each Card	
			¾ in.	1½ in.
1-33	PS-1-33	1-33	2	1
34-66	PS-34-66	34-66	2	1
67-99	PS-67-99	67-99	2	1
100-124	PS-100-124	100-124	2	1
125-149	PS-125-149	125-149	2	1
and so on thru				
975-999	PS-975-999			
and so on thru				
1975-1999				

Consecutive Letters
(Markers on each card are different and follow alphabetical sequence.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Printing on Each Marker	No. of Markers of each Letter on Each Card	
			¾ in.	1½ in.
A-Z (Cap)	PS-A-Z	A thru Z (Cap letters)	2	1
A-Z (Sml.)		a thru z (Sml. letters)	2	1



Solid Symbol Cards
(Same symbol on all markers.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Symbols on Each Card	Markers Per Card	
			¾ in.	1½ in.
A1 thru A5	PS-A1 thru PS-A2	A1, A2, etc.	72	36
L1 thru L5	PS-L1 thru PS-L4	L1, L2, etc.	72	36
S1 thru S5	PS-S1 thru PS-S3	S1, S2, etc.	72	36
T0 thru T10	PS-T0 thru T1-T6	T0, T1, etc.	72	36
AC	PS-AC	AC	72	36
DC	PS-DC	DC	72	36
POS	PS-POS	POS	50	25
NEG	PS-NEG	NEG	50	25
GND	PS-GND	GND	50	25

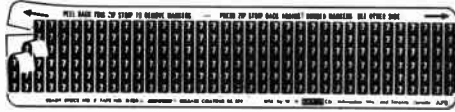


Consecutive Numbers Repeated
(Markers in each sequence are different, sequences are repeated.)

B-500+ Vinyl-Cloth Stock No.	B-600 Perma-Shield Stock No.	Printing on Each Marker	No. of Sequences of Markers on Each Card	
			¾ in.	1½ in.
1-3	PS-1-3	1-3	24	12
1-4		1-4	18	9
1-5		1-5	14	7
1-6		1-6	12	6
1-8		1-8	8	4
1-9		1-9	8	4
0-9	PS-0-9	0-9	6	3
1-10	PS-1-10	1-10	6	3
0-10		0-10	6	3
1-12	PS-1-12	1-12	6	3
1-16	PS-1-16	1-16	4	2
1-18	PS-1-18	1-18	4	2
19-36	PS-19-36	19-36	4	2

See Following Page for Prices

BRADY WIRE MARKERS



SOLID NEMA COLORS

Std. NEMA color markers without printing on B-500+ Vinyl Cloth only: 36 markers per card.

No.	Color	No.	Color	No.	Color
COL-RD	Red	COL-WT	White	COL-GY	Gray
COL-YL	Yellow	COL-BK	Black	COL-MR	Maroon
COL-LB	Lt. Blue	COL-TN	Tan	COL-OL	Olive
COL-DB	Dk. Blue	COL-BR	Brown	COL-PL	Purple
COL-LG	Lt. Grn.	COL-OR	Orange		
COL-DG	Dk. Grn.	COL-PK	Pink		

Color-Code Markers

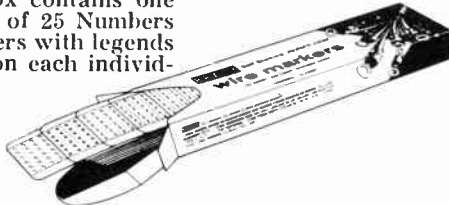
Solid numbers on NEMA color backgrounds. All markers on each card are the same. Come in seven different NEMA background colors.

Red No.	Yel-low No.	Or-ange No.	Blue No.	Green No.	Brown No.	Black No.	Print on Each Marker
1-RD	1-YL	1-OR	1-BL	1-GR	1-BR	1-BK	1
2-RD	2-YL	2-OR	2-BL	2-GR	2-BR	2-BK	2
50-RD	50-YL	50-OR	50-BL	50-GR	50-BR	50-BK	50

Brady B-500+ and B-600 Wire Markers

No. of Cards	Per 100 Cards
25 — 99	\$20.00
100 — 499	16.00
500 — 999	14.00
1000 — 2499	13.00
2500 — 4999	12.50
5000 — 9999	12.00

Each box contains one card each of 25 Numbers or 26 Letters with legends identical on each individual card.



Solid Number Cards

B-500+ Plastic Cloth 3/4" and 1 1/2" Size	B-600 Perma-Shield 3/4" and 1 1/2" Size	Assortment (1 of Each Card)
CPC- 1- 25	CPPS- 1- 25	1 thru 25
CPC- 26- 50	CPPS- 26- 50	26 thru 50
CPC- 51- 75	CPPS- 51- 75	51 thru 75
CPC- 76-100	CPPS- 76-100	76 thru 100
CPC-101-125	CPPS-101-125	101 thru 125
CPC-476-500	CPPS-476-500	476 thru 500

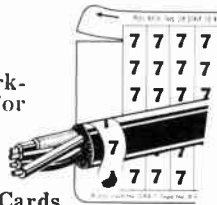
Solid Letter Cards

CPC-A-Z	CPPS-A-Z	A thru Z
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Price per box \$5.00

CABLE MARKERS

Heavy reinforced vinyl markers 1/2" wide x 3 1/2" long for wires up to 1" O.D.



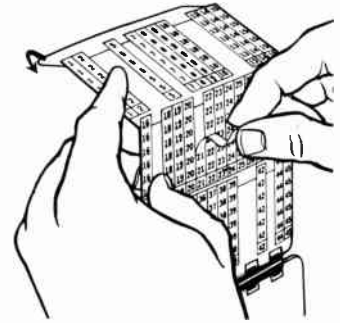
Per 100 Cable Marker Cards

25 to 99 Cards.....	\$54.00
100 to 999 Cards.....	43.20
500 to 999 Cards.....	37.80

Brady Stock No.	Printing on Each Marker	Brady Stock No.	Printing on Each Marker
CAB-0	0	CAB-A	A
CAB-1	1	CAB-B	B
CAB-2	2	CAB-C	C
CAB-3	3	CAB-D	D
CAB-4	4	CAB-E	E
CAB-5	5	CAB-F	F
CAB-6	6	CAB-N	N
CAB-7	7		
CAB-8	8		
CAB-9	9		

BRADY PORTA-PACK WIRE AND TERMINAL MARKING KIT

Pocket-size book of 450 self-sticking vinyl cloth wire markers plus 450 matching terminal markers. Markers "pop up" from flip-strip dispenser card for fast, easy on-the-job identification. Over 120 stock cards let you make up your own PORTA-PACK marking kit for special purpose jobs.



BRADY PORTA-PACK STOCK LIST

PORTA-PACK Stock No.	Porta-Pack Books 1 thru 11 each contain 450 Wire Markers and 450 matching Terminal Markers
PWM-PK-1	45 Markers each, 0-9
PWM-PK-2	10 Markers each, A-Z and 0-15
PWM-PK-3	10 Markers each, 1-45
PWM-PK-4	150 Markers each, 1, 2, 3
PWM-PK-5	150 Markers each, A, B, C
PWM-PK-6	150 Markers each, T1, T2, T3
PWM-PK-7	150 Markers each, L1, L2, L3
PWM-PK-8	2 Markers each, A-Z, O, +, -, /; 6 Markers each, 1-15; 4 Markers each, 16-90.
PWM-PK-9	45 Markers each, 1, 2, 3, A, B, C; 30 Markers each, T1, T2, T3, L1, L2, L3
PWM-PK-10	45 Markers each of 10 different NEMA colors
PWM-PK-11	15 Markers each, 1-30
PWM-PK-12	Total 411 Markers — 15 Markers each, A-Z, +, -; 21 blank Write-On labels
PWM-PK-13	Total 348 Markers — 45 Markers each, +, -, AC, DC; 33 Markers each, POS, NEG, GND; 27 Markers, NEUT; 21 Markers each, SPARE, blank Write-On labels

BRADY TEN-PACK STOCK LIST

Ten-Packs contain 10 identical cards (app. 450 Wire Markers and matching Terminal Markers per pack). Use Ten-Packs to make up your own Porta-Pack Combination of cards.

TEN-PACK Stock No.	Legend	TEN-PACK Stock No.	Legend
PWM-0	0	PWMT-P-R	P-R
PWM-1	1	PWMT-S-U	S-U
PWM-2	2	PWMT-V-X	V-X
and so on thru		PWMT-Y-Z,	
PWM-50	50	+ , -	Y, Z, +, -
PWM-A	A	PWM-W/O	Write-on labels
PWM-B	B	PWMT-T1-T3	T1-T3
PWM-C	C	PWMT-L1-L3	L1-L3
and so on thru		PWM-PLS	+
PWM-Z	Z	PWM-MIN	-
PWM-A-Z,		PWM-POS	POS
0-15	A-Z, 0-15	PWM-NEG	NEG
PWM-1-45	1-45	PWM-AC	AC
PWM-46-90	46-90	PWM-DC	DC
PWMT-1-3	1-3	PWM-GND	GND
PWMT-4-6	4-6	PWM-NEUT	NEUT
PWMT-7-9	7-9	PWM-SPR	SPARE
PWMT-10-12	10-12	Solid NEMA Color Code	
PWMT-13-15	13-15	Markers:	
PWMT-16-18	16-18	PWMC-RD	Red
PWMT-19-21	19-21	PWMC-YL	Yellow
PWMT-22-24	22-24	PWMC-LB	Lt. Blue
PWMT-25-27	25-27	PWMC-LG	Lt. Green
PWMT-28-30	28-30	PWMC-WT	White
PWMT-A-C	A-C	PWMC-BK	Black
PWMT-D-F	D-F	PWMC-BR	Brown
PWMT-G-I	G-I	PWMC-OR	Orange
PWMT-J-L	J-L	PWMC-GY	Gray
PWMT-M-O	M-O	PWMC-DG	Dk. Green

Porta-Pack and Ten-Pack Prices Per Pack

1- 9 Packs.....	\$2.50	100-249 Packs.....	\$1.75
10-49 Packs.....	2.25	250-499 Packs.....	1.63
50-99 Packs.....	2.00	500-999 Packs.....	1.56

**BRADY WIRE MARKERS
MINIATURE WIRE MARKERS**



1/2" long Markers for wires under .150" O.D. (5/32"). Stocked in Brady B-600 sub-surface printed Perma-Shield. Each card contains 3 rows of Markers. Up to 150 Markers per card.

Brady Stock No.	Printing on Marker	Markers Per Row	Markers Per Card
Solid Numbers (All markers on each card the same.)			
MM- 0	0	50	150
MM- 1	1	50	150
MM- 2	2	50	150
and so on thru			
MM- 99	99	50	150
MM-100	100	33	99
MM-101	101	33	99
and so on thru			
MM-500	500	33	99

Solid Capital Letters (All markers on each card the same.)			
MM-A-CAP	A	50	150
MM-B-CAP	B	50	150
MM-C-CAP	C	50	150
and so on thru			
MM-Z-CAP	Z	50	150

Consecutive Numbers (3 complete sets per card)			
MM- 0- 49	0 thru 49	50	150
MM- 50- 99	50 thru 99	50	150
MM-100-132	100 thru 132	33	99
MM-133-165	133 thru 165	33	99
MM-166-198	166 thru 198	33	99
MM-199-231	199 thru 231	33	99
MM-232-264	232 thru 264	33	99
MM-265-297	265 thru 297	33	99
MM-298-330	298 thru 330	33	99
MM-331-363	331 thru 363	33	99
MM-364-396	364 thru 396	33	99
MM-397-429	397 thru 429	33	99
MM-430-462	430 thru 462	33	99
MM-463-495	463 thru 495	33	99

Per 100 assorted cards: \$27.00

CONDUIT & VOLTAGE MARKERS

- Style B
1 1/2" x 4 1/2"
Markers,
4 Markers
per Card.
- Style C
2 1/4" x 9"
Markers,
18 legends per
Marker.
- Style A
2 1/4" x 9"
Markers,
1 Marker per Card.



Mark Conduit, Switches, Busway, Transformers and Fuse Boxes with legend and bright orange color. Most NEMA Voltages in stock. Three styles.

Legend	Style A	Style B	Style C*
110 Volts	CV-1A	CV-1B	CV-1C
115 Volts	CV-2A	CV-2B	CV-2C
120 Volts	CV-4A	CV-4B	CV-4C
208 Volts	CV-6A	CV-6B	CV-6C
220 Volts	CV-7A	CV-7B	CV-7C
240 Volts	CV-10A	CV-10B	CV-10C
250 Volts	CV-11A	CV-11B	CV-11C
277 Volts	CV-12A	CV-12B	
440 Volts	CV-13A	CV-13B	CV-13C
AC	CV-27A	CV-27B	CV-27C
Single Phase	CV-29A	CV-29B	CV-29C
Three Phase	CV-31A	CV-31B	CV-31C
Power	CV-32A	CV-32B	CV-32C
DC	CV-38A	CV-38B	CV-38C

*Specify if 18 individual 1/2" x 2 1/4" markers are desired. Price: \$32.00 per 100 assorted cards.

BRADY MARKERS

ACCIDENT PREVENTION SIGNS

STOCK NO.	SIGN	STOCK NO.	SIGN
CAU-1-1	CAUTION	DAN-5-514	DANGER STARTS AUTOMATICALLY
DAN-1-1	DANGER	DAN-1-17R	DO NOT TOUCH SWITCHES
CAU-1-15	BE CAREFUL IN OPERATING THE MACHINES	DAN-1-29R	ELECTRIC CURRENT KEEP OFF
CAU-1-31R	CABLE BURIED HERE	DAN-1-14R	HIGH VOLTAGE
CAU-5-507	CAUTION CAUTION DO NOT USE NEAR ELECTRICAL EQUIPMENT	RAD-1-C	RADIATION HAZARD
CAU-5-505	CAUTION CAUTION USE FUSE PULLER TO CHANGE FUSES	RAD-5-C	CAUTION AIRBORNE RADIOACTIVITY AREA
DAN-5-502	DANGER DANGER HIGH VOLTAGE	RAD-6-C	CAUTION X-RAYS This Equipment Produces X-rays When Energized
DAN-5-509	DANGER DANGER MEN WORKING DON'T START	RAD-19-C	RADIOACTIVE
NOT-3-35	NO ENTRY WITHOUT PERMISSION	CAU-1-12	DON'T START OUT OF ORDER
DAN-1-12R	NO SMOKING	FIR-1-2	EXIT
DAN-1-101R	ONLY AUTHORIZED PERSONNEL ALLOWED TO OPERATE OR MAKE ADJUSTMENTS ON THIS MACHINE	FIR-1-9	FIRE ALARM HANDS OFF
CAU-1-10	Ring Bell Before Lowering Elevator	FIR-1-7	A FIRE-TODAY NO JOB TOMORROW
NOT-1-41	THIS ELEVATOR IS FOR FREIGHT ONLY NOT PASSENGERS	DAN-1-21R	FOR EMERGENCY USE ONLY
FIR-1-8	DO NOT USE ON ELECTRICAL FIRES	FIR-1-17	FOR USE ON ELECTRICAL FIRES

Self-sticking signs adhere to metal, glass, plastic, wood surfaces without moistening or fasteners. Signs are 2 1/4" x 9" mounted 1 per dispenser card, or 2 1/4" x 4 1/2" with 2 per dispenser card as illustrated. Conform to National Safety Council specifications.

Per 100 cards of 1 or 2 signs: \$32.00

WARNING STRIPES



Self-sticking all-vinyl stripes mark hazardous areas fast and inexpensively. Use on low doorways and beams, protruding equipment, docks, elevators. Yellow and black or magenta and yellow stripes stocked in continuous rolls 1", 1 1/2", 2" and 3" wide by 18 yds. long.

Stock Nos.	Width	Per Roll
Yellow & Black WS8V-10Y	1"	\$3.20
Magenta & Yellow WS8V-15Y	1 1/2"	4.50
WS8V-20Y	2"	5.95
WS8V-30Y	3"	8.95

**BRADY AISLE MARKERS
and AISLE MARKERMATIC**



Mark Traffic lanes and plant areas fast with highly-visible dotted lines. All-Vinyl bright yellow markers are spaced and applied automatically, at walking speed, 10", 15" or 20" apart, or random-spaced. Markers outlast paint 5 to 1. Furnished 1000 markers per roll.

Per Roll of 1000 Markers

Stock No.	Size	Per Roll
AMR-2	2" dia.	\$21.70
AMR-3	3" dia.	38.30
AMR-4	4" dia.	65.80

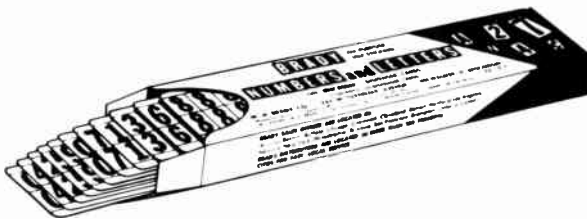
Aisle Markermatic **\$475.00**

LINER-MOUNTED AISLE MARKERS

For Individual Application

Size	Yellow	Stock Numbers			Per 500 Individual Markers
		Red	Green	White	
2"	AM-2Y	AM-2R	AM-2G	AM-2W	\$10.85
3"	AM-3Y	AM-3R	AM-3G	AM-3W	19.15
4"	AM-4Y				32.90
5"	AM-5Y				46.20

NUMBERS AND LETTERS



Bold, black numbers and letters printed on self-adhesive yellow vinyl cloth. Individual characters mounted on dispenser cards for instant use. Stick to any clean, dry surface. Seven stock sizes. Specify stock item by suffixing desired number or letter after series number:

Y03 Series — ¼" x ¾" markers. 144 identical markers per dispenser card. (Four rows of 36 markers each.)

Y05 Series — ⅜" x ½" markers. 78 identical markers per dispenser card. (Three rows of 26 markers each.)

Y75 Series — ⅝" x ¾" markers. 32 identical markers per dispenser card. (Two rows of 16 markers each.)

Y15 Series — ⅞" x 1½" markers. Ten identical markers per dispenser card.

Y225 Series — ⅞" x 2¼" markers. Ten identical markers per dispenser card.

Y35 Series — 1½" x 3½" markers. Six identical markers per dispenser card.

Y5 Series — 1¾" x 5" markers. Five identical markers per dispenser card.

Brady Numbers and Letters	Per 100 Cards
Series Y03, Y05, Y75 and Y15	\$20.00
Series Y225	32.00
Series Y35	48.00
Series Y5	64.00

BRADY QUIK-ALIGN SIGN KITS



Heavy die-cut vinyl letters and numbers mounted on notched cards. Spacing, alignment and application are fast and easy. Characters stick permanently to clean, dry surface. Use indoor or outdoor. Stocked in 1", 2", 3", 4" and 6" sizes in black, white, yellow and red. Furnished in handy, portable kits of 560 assorted characters with quantities of each in proportion to use. Refills also available.

Quik-Align Kits

Size	Brady Stock Nos.				Per Kit*
	Black	White	Yellow	Red	
	QAV533-	QAV533-	QAV533-	QAV533-	
1"	1B	1W	1Y	1R	\$34.50
2"	2B	2W	2Y	2R	41.50
3"	3B	3W	3Y	3R	52.00
4"	4B	4W	4Y	4R	69.00
6"	6B	6W	6Y	6R	110.00

Refill Packages — 10 identical characters per package.

Size	Brady Stock Nos.				Per Pkg.
	Black	White	Yellow	Red	
	QAV-	QAV-	QAV-	QAV-	
1"	B1-*	W1-*	Y1-*	R1-*	\$1.00
2"	B2-*	W2-*	Y2-*	R2-*	1.20
3"	B3-*	W3-*	Y3-*	R3-*	1.50
4"	B4-*	W4-*	Y4-*	R4-*	2.00
6"	B6-*	W6-*	Y6-*	R6-*	3.20

*NOTE: Add letter or number desired in place of asterisk to complete each Stock No. shown above.

CONTRACTOR SERVICE LABELS



Handy, self-sticking labels are applied to switch boxes, control centers, other equipment. Identify your company when service or maintenance is required. Labels mounted on dispenser cards . . . easily carried in tool box or packet. Labels are ¾" x 1½", 12 labels per card. Heavy-duty B-500+ plastic cloth material. Two styles:

Prices shown include straight typesetting. If art or reverses are required, additional charges are billed at cost.

 INSTALLATION BY A. W. EVANS, INC. EST. 1926 PHONE 211-3769	FOR SERVICE CALL KEAN CONTRACTORS PHONE 376-4800
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Description	No. of Colors	Dispenser Card Size	Tape Area	Per 100 Cards
B-500+	1*	2" x9"	1½" x9"	\$25.00
B-500+	2*	2" x9"	1½" x9"	27.50
B-500+	1*	2¾" x9"	2¼" x9"	32.00
B-500+	2*	2¾" x9"	2¼" x9"	38.50

*Plus background color. Standard background colors are white, yellow, aluminum, green, orange, red and blue.

BRADYLITE REFLECTIVE MARKERS



Mark electrical apparatus, poles, equipment and emergency areas for instant day-or-night identification with Bradylite markers. Shine brilliantly when lit by any light source. Permanent, individual numbers, letters and KVA ratings mounted on split liners. Easy to apply. Packaged 25 identical markers in plastic box.

Stock No.	Size	Printing On Each Marker	Price Group
NUMBERS			
RY3-1	1 3/4" x 2 7/8"	1	I
RY3-2	1 3/4" x 2 7/8"	2	I
and so on thru			
RY3-9	1 3/4" x 2 7/8"	9	I
RY3-0	1 3/4" x 2 7/8"	0	I
LETTERS			
RY3-A	1 3/4" x 2 7/8"	A	I
RY3-B	1 3/4" x 2 7/8"	B	I
and so on thru			
RY3-Z	1 3/4" x 2 7/8"	Z	I
RY3-DSH	1 3/4" x 2 7/8"	—	I

KVA RATINGS

(For marking electrical utility equipment)

RY3-3	1 3/4" x 2 7/8"	3	I
RY3-5	1 3/4" x 2 7/8"	5	I
RY3-7 1/2	3 1/4" x 2 7/8"	7 1/2	II
RY3-10	3 1/4" x 2 7/8"	10	II
RY3-15	3 1/4" x 2 7/8"	15	II
RY3-25	3 1/4" x 2 7/8"	25	II
RY3-37 1/2	4 3/4" x 2 7/8"	37 1/2	III
RY3-50	3 1/4" x 2 7/8"	50	II
RY3-75	3 1/4" x 2 7/8"	75	II
RY3-100	4 3/4" x 2 7/8"	100	III
RY3-150	4 3/4" x 2 7/8"	150	III
RY3-167	4 3/4" x 2 7/8"	167	III
RY3-500	4 3/4" x 2 7/8"	500	III
RY3-2400	6 1/4" x 2 7/8"	2400	IV
RY3-4800	6 1/4" x 2 7/8"	4800	IV
RY3-7200	6 1/4" x 2 7/8"	7200	IV
RY3-7600	6 1/4" x 2 7/8"	7600	IV

Per 100 Individual Markers

Group	Marker Size	25 to 99 Markers	100 to 499 Markers	500 to 2499 Markers	2500 to 4999 Markers
I	1 3/8" x 2 7/8"	\$19.00	\$15.20	\$14.25	\$13.78
II	3 1/4" x 2 7/8"	\$2.50	\$26.00	\$24.38	\$23.56
III	4 3/4" x 2 7/8"	\$44.50	\$35.60	\$33.38	\$32.26
IV	6" x 2 7/8"	\$56.50	\$45.20	\$42.38	\$40.96

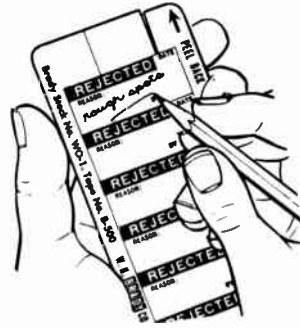
BRADY PIPE MARKERS



Self-sticking markers identify contents, flow and nature of pipe lines with specific wording, directional arrows and A.S.A.-specified color background. Over 250 standard legends (like "HOT WATER," "STEAM" and "GAS") in stock. Special Pipe Markers made to order.

Per 100 Assorted Cards: **\$30.40**

BRADY WRITE-ON LABELS



Pressure-sensitive labels with pre-printed color- and -wording have space for writing in specific instructions, codes, ratings, other data. Also furnished blank with no printing. Fill in with pencil, pen, ballpoint, rubber stamp or typewriter. Individual labels mounted on handy "writing boards" for easy use and dispensing. Three materials: B-500+ plastic cloth, B-184 aluminum and B-770 paper.

PRE-PRINTED WRITE-ON LABELS

Brady Stock Numbers			Legend	Color	No. of Labels on Card
B-500+	B-184	B-770			
WO-1	WOAF-1	WOP-1	Rejected	Red	14
2	2	2	Accepted	Green	14
3	3	3	Hold	Pink	14
4	4	4	Return to Vendor	Orange	14
5	5	5	Rework	Yellow	14
6	6	6	Hold for Inspection	Blue	14
7	7	7	Batch No.	Blue	14
8	8	8	Bin No.	Green	18
9	9	9	Calibration	Green	9
10	10	10	Calibration	Green	14
11	11	11	Caution	Yellow	14
12	12	12	Caution—RPM	Yellow	14
13	13	13	Caution—Temperature	Yellow	14
14	14	14	Circuit	Orange	14
17	17	17	Date Installed	Black	14
18	18	18	Do Not Use After	Red	14
20	20	20	Due for Inspection	Orange	14
21	21	21	Emergency Phone	Red	8
23	23	23	Extinguisher Checked	Red	14
25	25	25	Extinguisher Charged	Red	7
26	26	26	Inventoried	Black	9
27	27	27	Inventory	Black	12
28	28	28	Model No.	Black	18
29	29	29	Property Tag	Black	18
31	31	31	Repaired by	Orange	14
32	32	32	Run No.	Yellow	14
33	33	33	Scrapped	Orange	14
34	34	34	Serial No.	Black	18
36	36	36	Serial No.	Black	6
37	37	37	Stock No.	Green	18
38	38	38	Tested	Green	14
39	39	39	Tool No.	Blue	18

Card size 2" x 9" except 9, 21, 25, 26 & 36 which are 2 3/4" x 9".

BLANK WRITE-ON LABELS

Brady Stock Numbers			Label Size	Labels Per Card
B-500	B-184	B-770		
On 2" x 9" Dispenser Cards				
WO-16	WOAF-16	WOP-16	1 1/2" x 1 1/2"	6
WO-19	WOAF-19	WOP-19	1" x 1 1/2"	9
WO-24	WOAF-24	WOP-24	5/8" x 1 1/2"	14
WO-30	WOAF-30	WOP-30	1/8" x 1 1/2"	20
WO-35	WOAF-35	WOP-35	3/8" x 1 1/2"	25
WO-46	WOAF-46	WOP-46	1/4" x 1 1/2"	36
On 2 3/4" x 9" Dispenser Cards				
WO-54	WOAF-54	WOP-54	2 1/4" x 2 1/4"	4
WO-55	WOAF-55	WOP-55	1 3/4" x 2 1/4"	5
WO-56	WOAF-56	WOP-56	1 1/2" x 2 1/4"	6
WO-59	WOAF-59	WOP-59	1" x 2 1/4"	9
WO-62	WOAF-62	WOP-62	3/4" x 2 1/4"	12
WO-68	WOAF-68	WOP-68	1/2" x 2 1/4"	18

Prices per 100 Assorted Cards

Description	Card Size	Per 100
B-500 Vinyl Cloth, B-770 Paper	2" x 9"	\$20.00
B-184 Aluminum Foil	2" x 9"	\$22.50
B-500 Vinyl Cloth, B-770 Paper	2 3/4" x 9"	\$32.00
B-184 Aluminum Foil	2 3/4" x 9"	\$36.00

**"SCOTCH" BRAND NO. 471
PLASTIC FILM TAPE**



A vinyl plastic tape with either transparent or yellow, white, black, red, blue, green, orange, red-orange or brown backing. Highly conformable; vivid colors withstand heavy abrasion. Resistant to most common solvents; avoid ketones, chlorinated hydrocarbons and esters. Not recommended for use on vinyls or other plastics containing migrating type plasticizers.

Roll Size	BOXED		BULK	
	Rolls/Ctn.	Price/Roll	Rolls/Ctn.	Price/Roll
1/2" x 36 Yards	12	\$1.90	72	\$1.37
3/4" x 36 Yards	12	2.34	48	1.68
1" x 36 Yards	12	2.92	36	2.10
2" x 36 Yards	12	5.84	20	4.20
3" x 36 Yards	12	8.76	12	6.30

**"SCOTCH" BRAND NO. 267
PRINTABLE FLATBACK TAPE**



A treated flatback paper tape with a surface color-coating of either light green, red, light blue, white, orange, or yellow. Printable by the "Print-Seal" process. It combines high tensile with the best packaging type adhesive available on any colored paper tape sold today. Removes easily after aging; has good resistance to plasticizer migration; is relatively non-staining.

Roll Size	BOXED		BULK	
	Rolls/Ctn.	Price/Roll	Rolls/Ctn.	Price/Roll
1/2" x 60 Yards	12	\$1.17	72	\$.75
3/4" x 60 Yards	12	1.77	48	1.13
1" x 60 Yards	12	2.34	36	1.50

**"SCOTCH" BRAND NO. 232
GENERAL PURPOSE MASKING TAPE**



Excellent tape for paint masking, general purpose holding, bundling, protecting and miscellaneous industrial applications. Generally functions during bake cycles of up to 200°F. for up to one hour. Not to be subjected to outdoor exposure.

Roll Size	BULK	
	Rolls/Carton	Price/Roll
1/2" x 60 Yards	72	\$.48
3/4" x 60 Yards	48	.55
1" x 60 Yards	36	.77

**"SCOTCH" BRAND NO. 227
FLATBACK MASKING TAPE**



Ideal for straight-line paint masking plus various holding and packaging applications. Has good stain and solvent resistance; generally performs well at up to 200°F. for about an hour. Outdoor exposure should not be considered.

Roll Size	BULK	
	Rolls/Carton	Price/Roll
1/2" x 60 Yards	72	\$.56
3/4" x 60 Yards	48	.64
1" x 60 Yards	36	.91

**"SCOTCH" BRAND NO. 898
FILAMENT TAPE**



A transparent film tape reinforced with continuous glass yarn filaments. Stain resistant, aggressive high shear adhesive. Printable by "Print-Seal." For use on corrugated containers in bundling, holding, reinforcing, palletizing and unitizing.

Roll Size	BOXED		BULK	
	Rolls/Ctn.	Price/Roll	Rolls/Ctn.	Price/Roll
1/2" x 60 Yards	12	\$2.29	72	\$1.40
3/4" x 60 Yards	12	3.05	48	1.95
1" x 60 Yards	12	3.95	36	2.54

**"SCOTCH" BRAND NO. 681
TRANSPARENT FILM TAPE**



A transparent "Paklon" film tape. Unaffected by moisture, dryness and changing atmospheric conditions. Resistant to most acids, alkalis and solvents. Excellent for various packaging, splicing and protecting applications.

Roll Size	BOXED		BULK	
	Rolls/Ctn.	Price/Roll	Rolls/Ctn.	Price/Roll
1/2" x 72 Yards	12	\$1.08	72	\$.72
3/4" x 72 Yards	12	1.57	48	1.05
1" x 72 Yards	12	2.05	36	1.37

**"SCOTCH" BRAND NO. 410
DOUBLE-COATED TISSUE TAPE**



A paper tissue coated with a high shear adhesive on both sides. Tape's mirror smooth adhesive coat gives an exceedingly high level of adhesion to most clean, smooth surfaces. Widely used in the printing industry; also for splicing, and where two adhesive surfaces are required.

Roll Size	BOXED		BULK	
	Rolls/Ctn.	Price/Roll	Rolls/Ctn.	Price/Roll
1/2" x 36 Yards	12	\$1.91	72	\$1.22
3/4" x 36 Yards	12	2.55	48	1.64
1" x 36 Yards	12	3.19	36	2.04

**"3M" BRAND FILTER
MASK NO. 8500**



Protects against non-toxic dusts, powders, spray particles and pollen. Easy to breathe and talk through—3-5 times the filter area of other masks. Disposable, inexpensive, light-weight, one piece construction. Elastic head band—no straps to adjust. No snaps.

PACKING		PRICE EACH	
Mask Per Poly Bag	Masks Per Unit (4 bags)	Per Poly Bag	Per Unit
25	100	\$3.70	\$13.78

**"SCOTCH-MOUNT" BRAND
DOUBLE-COATED TAPES
NOS. 4008, 4016, 4032**



A high density open cell polyurethane foam in three thicknesses (1/8", 1/4", 3/2") with a long aging adhesive on both sides. For multitude of mounting and holding jobs. Applies to any clean, dry, unified surface; rough surfaces, too. Functions for extended periods at 200°F. Best application between 70°F. and 120°F.

NET PRICE PER ROLL (BULK)			
Roll Length (Yards) >	36	36	72
Tape Width	4008	4016	4032
1/2"	\$ 6.03	\$4.82	\$ 8.65
3/4"	8.05	6.42	11.53
1"	10.05	8.02	14.40

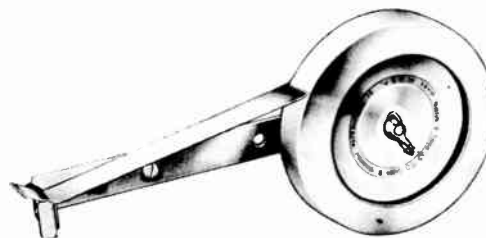
**"SCOTCHFOAM" BRAND
SINGLE-COATED TAPES
NOS. 4104, 4108, 4116**



A high density, open cell polyurethane foam in three thicknesses (1/16", 1/8", 1/4") with a new transparent, long-aging, high tack adhesive on one side. Designed as a sealing or padding media. Applies to any clean, dry, unified surface; rough surfaces, too! Apply between 70°F. and 120°F. Functions for extended periods at 200°F.

NET PRICE PER ROLL (BULK)				
Roll Length (Yards) >	18		36	
	36	36	36	36
Tape Width	Natural		Black	
	4104	4108	4104	4108
1/2"	\$4.58	\$5.76	\$4.80	\$5.95
3/4"	6.10	7.68	6.40	7.94
1"	7.62	9.61	8.00	9.93

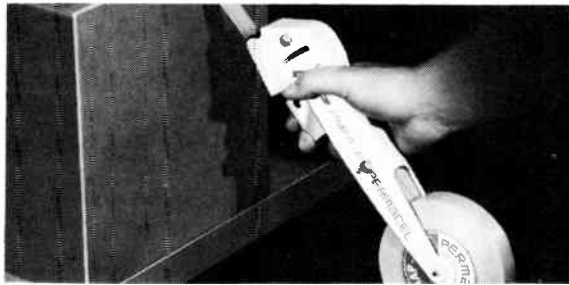
**"SCOTCH" BRAND M-73
BRACKET DISPENSER**



Suited for quick, sure mounting on working tables or cabinets. Accommodates "Scotch" Brand Paper, Cellophane, Acetate Film and Acetate Fibre Tapes in widths up to 1" on a 3" core.

Price Each: \$1.25 12 or more (each): \$1.13

PERMACEL TAPES



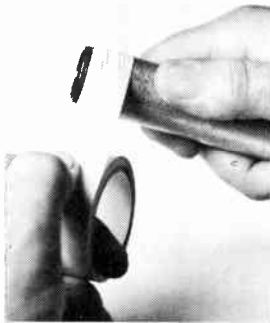
STRAP-IT* DISPENSER

PERMACEL 4T DISPENSER For fast, smooth, one-hand dispensing of strapping, cloth, paper and other tapes. Takes tape up to 1" wide. PERMACEL 4W Dispenser handles tape up to 2".

4T One Each \$25.90 18 Each \$21.50
4W One Each \$59.50

RIBBON DOPE* THREAD SEALANT

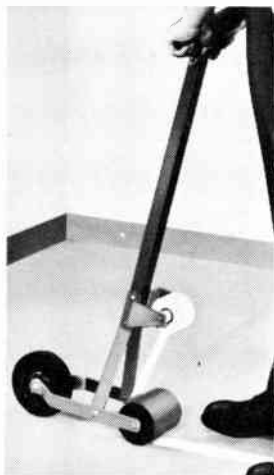
PERMACEL 412. Unsurpassed for sealing of critical pipe joints. Resists action of acids, solvents and other chemicals within temperature range of -450° F. to +500° F. Replaces all other types of pipe dope. Excellent for conduit sealing and insulation.



Nos.	Width	Length	Rolls Per Unit	Case Qty.	1 Roll	1 Unit	5 Units	15 Units
412	1/4"	260"	12	48	\$1.42	\$1.24	\$1.16	\$1.02

PERMACEL* AISLE MARKING TAPE

PERMACEL 32 COLORED VINYL TAPE for marking aisles, storage areas, safety zones, etc. Outwears paint 5 to 1, quickly and easily applied with the PERMACEL 4F aisle marker illustrated. Also used for color coding. Colors: black, white, yellow, red, green and blue.



Nos.	Width	Length	Case Qty.	Each	1-4 Cases	5-14 Cases	15 Cases or More
32	1/2"	36 yds.	72	\$3.15	\$2.74	\$2.60	\$2.40

PERMACEL 15 Strapping Tape. A glass thread reinforced paper tape for heavy duty packaging. Tensile strength, 270 lbs. per inch.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
15	1/2"	180'	72	\$2.96	\$2.74	\$2.28

PERMACEL 703 Masking Tape. All purpose, stain resistant paper masking tape. Excellent release properties. For protection of surfaces during painting.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
703	1/2"	180'	72	\$0.90	\$0.78	\$0.68

PERMACEL 17 Paper Packaging Tape. For carton sealing. Strong, faster and cleaner than gummed tape.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
17	1/2"	360'	72	\$3.04	\$2.66	\$2.36

PERMACEL 11 Aluminum Foil Tape. For protective covering on cable splices. Serves as a moisture vapor barrier on communication cable splices.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
11	1/2"	180'	72	\$4.54	\$4.24	\$3.76

PERMACEL 670 Silver Cloth Duct Sealing Tape. For sealing fibrous glass insulation and duct joints. Aggressive, quick sticking adhesive for heating and air conditioning duct systems.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
670	1"	180'	48	\$3.16	\$2.92	\$2.62

PERMACEL 64 Cloth Tape. A utility cloth tape for sealing, bundling, holding, packaging.

Nos.	Width	Length	Case Qty.	1-4 Cases	5-14 Cases	15 Cases or More
64	1/2"	180'	96	\$1.92	\$1.74	\$1.60

PERMACEL 306, 307, 308 Pipe Wrap Tapes. For protection of underground and overhead piping from corrosion. 306 is a 10 mil. vinyl tape. 307 is a 20 mil. vinyl tape. 308 is a 14 mil. polyethylene tape.

Prod. No.	1 Case (4 sqs.)	5 Cases (20 sqs.)	15 Cases (60 sqs.)
306	\$15.65	\$14.70	\$13.45
307	25.05	23.53	21.53
308	11.18	10.41	9.64

IMPORTANT INFORMATION

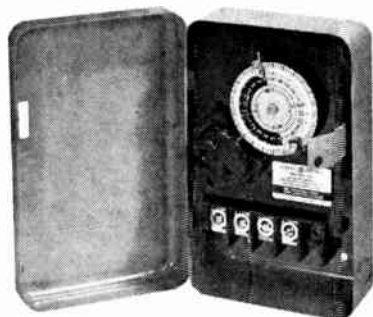
1. ROLL LENGTH: 100 ft. on 1 1/2" dia. core.
2. 1 SQUARE equals 100 sq. ft. (12" x 100'); 6 rolls 2" x 100 ft. = 1 sq.; 3 rolls 4" x 100' = 1 sq.
3. CASE PACKING: 308 only available in widths listed below; 306 and 307 available in up to 38" widths.

Size	Squares Per Case	Rolls Per Case
1" x 100' (1/12 sq.)	4	48
2" x 100' (1/6 sq.)	4	24
3" x 100' (1/4 sq.)	4	16
4" x 100' (1/3 sq.)	4	12

PERMACEL manufactures more than 300 different tapes, dispensers and electrical insulating materials all available from Graybar. Contact Graybar for more information.

GENERAL ELECTRIC TIME SWITCHES

LOW-COST CR121 TYPE A (TSA-47) FOR REGULAR-DUTY INDOOR APPLICATIONS—UL LISTED



Best choice for a variety of timing jobs such as advertising signs, store windows, floor lighting, poultry houses, heating, air conditioning, refrigeration, and motor starting.

Features include heavy-duty 40-amp tungsten-rated contacts; mech-

anism that snaps in and out of case in seconds to make mounting easy; wide temperature span of -20F to +150F (-29C to +66C); omitting device to permit skipping one or more days per week; 24-hour plain dial or

astronomic (complete astronomic-dial switch or separate dial assembly).

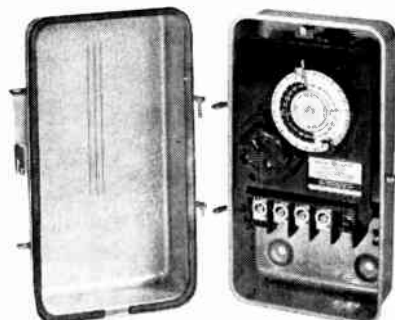
Switch action is minimum ON one hour, minimum OFF one hour. Unit is 7-61/64 by 5 by 3-21/32 inches; net weight is 3 3/4 lb.

60 Cycles — 120 and 240 Volts AC

Motor Volts A-c	Switch		Plain Dial			Astronomic Dial*				
	Pole	Throw	Without Omitting Device	List Price	With Omitting Device	List Price	Without Omitting Device	List Price	With Omitting Device	List Price
120	1	1	CR121 AA01	\$12.00	CR121 AA31	\$16.00	CR121 AA06	\$22.00	CR121 AA36	\$26.00
120+	1	1	CR121 AA73	14.00	CR121 AA74	18.00				
240	1	1	CR121 AA11	13.00	CR121 AA41	17.00	CR121 AA16	23.00	CR121 AA46	27.00
120	1	2	CR121 AA02	14.00	CR121 AA32	18.00	CR121 AA07	24.00	CR121 AA37	28.00
240	1	2	CR121 AA12	15.00	CR121 AA42	19.00	CR121 AA17	25.00	CR121 AA47	29.00
120	2	1	CR121 AA03	14.00	CR121 AA33	18.00	CR121 AA08	24.00	CR121 AA38	28.00
240	2	1	CR121 AA13	15.00	CR121 AA43	19.00	CR121 AA18	25.00	CR121 AA48	29.00
120†	2 Circuits		CR121 AA71	14.00						
240†	Separate OFF		CR121 AA72	15.00						

† Portable models with case and line cord with male plug and female receptacle. ‡ Poultry house time switch with 2 circuits and separate OFF for twilight period. Accessories include flush-mounted case with or without lock; surface-mounted duplex case without lock; omitting device kit; extra trippers ON, OFF, OFF with omit. Optional features include factory-set trippers; omitting screws factory-assembled into star wheel; motor voltage 24 or 277 volts, 60 cycles; extra trippers.

RAIN-TIGHT CR121 TYPE B (TSA-41) FOR REGULAR-DUTY OUTDOOR APPLICATIONS—UL LISTED



Ideal time switch for such jobs as street lighting; sign, store, floor lighting; irrigation and pump control; motor control; etc.

With all-weather protection, this is industry's only regular-duty switch

with UL listed rain-tight case. Contacts, temperature range, omitting device, and dial selection are the same as for TSA-47.

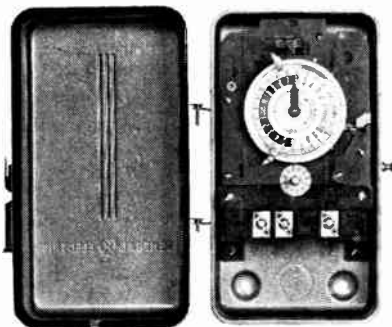
Switch action is minimum ON one hour, minimum OFF one hour. Size is 9-19/32 by 6-5/32 by 4-11/32 inches; net weight is 3 3/4 lb.

60 Cycles — 120 and 240 Volts AC

Motor Volts A-c	Switch		Plain Dial			Astronomic Dial*				
	Pole	Throw	Without Omitting Device	List Price	With Omitting Device	List Price	Without Omitting Device	List Price	With Omitting Device	List Price
120	1	1	CR121 BA01	\$21.00	CR121 BA31	\$25.00	CR121 BA06	\$31.00	CR121 BA36	\$35.00
240	1	1	CR121 BA11	22.00	CR121 BA41	26.00	CR121 BA16	32.00	CR121 BA46	36.00
120	1	2	CR121 BA02	23.00	CR121 BA32	27.00	CR121 BA07	33.00	CR121 BA37	37.00
240	1	2	CR121 BA12	24.00	CR121 BA42	28.00	CR121 BA17	34.00	CR121 BA47	38.00
120	2	1	CR121 BA03	23.00	CR121 BA33	27.00	CR121 BA08	33.00	CR121 BA38	37.00
240	2	1	CR121 BA13	24.00	CR121 BA43	28.00	CR121 BA18	34.00	CR121 BA48	38.00

Omitting device kit is available as an accessory. Optional features include windowed case; non-removable cover; factory-set trippers; omitting screws factory-assembled into star wheel; motor voltage of 24 or 277 volts, 60 cycles; extra trippers; separate motor terminals (SPST only); separate motor leads (SPDT, DPST).

RUGGED CR121 TYPE C (TSA-40) FOR HEAVY-DUTY INDOOR OR OUTDOOR APPLICATIONS—UL LISTED



Ideal for street, sign, and floor lighting; capacitor switching of heating, air conditioning, refrigeration; pump and motor control; etc.

This is the "workhorse" of G-E's time-switch family. Case is UL listed rain-tight and contacts are UL listed 40-amp tungsten-rated. Omitting de-

vice permits skipping one or more days. 24-hour plain dial or astronomic dial (ON at dusk, OFF at 10 PM to 2 AM or dawn, as the seasons vary). Minute dial for precision setting.

Switch action is minimum ON 15 minutes, minimum OFF one hour and 15 minutes. Size is 9-19/32 by 6-5/32 by 4-11/32 inches, net weight is 4 3/4 lb.

60 Cycles — 120 and 240 Volts AC

Motor Volts A-c	Switch		Plain Dial			Astronomic Dial*				
	Pole	Throw	Without Omitting Device	List Price	With Omitting Device	List Price	Without Omitting Device	List Price	With Omitting Device	List Price
120	1	1	CR121 CA01	\$37.00	CR121 CA31	\$41.00	CR121 CA06	\$56.00	CR121 CA36	\$60.00
240	1	1	CR121 CA11	37.00	CR121 CA41	41.00	CR121 CA16	56.00	CR121 CA46	60.00
120	1	2	CR121 CA02	42.00	CR121 CA32	46.00	CR121 CA07	61.00	CR121 CA37	65.00
240	1	2	CR121 CA12	42.00	CR121 CA42	46.00	CR121 CA17	61.00	CR121 CA47	65.00
120	2	1	CR121 CA03	42.00	CR121 CA33	46.00	CR121 CA08	61.00	CR121 CA38	65.00
240	2	1	CR121 CA13	42.00	CR121 CA43	46.00	CR121 CA18	61.00	CR121 CA48	65.00
120	2	2	CR121 CA04	45.50	CR121 CA34	49.50	CR121 CA09	64.50	CR121 CA39	68.50
240	2	2	CR121 CA14	45.50	CR121 CA44	49.50	CR121 CA19	64.50	CR121 CA49	68.50

Omitting device kit is available as an accessory. Optional features include windowed case; non-removable cover; factory-set trippers; omitting screws; 60-minute, 120-minute, 12-hour, 48-hour, and 7-day dials; motor voltages of 208 and 277 volts; extra trippers; separate motor terminals (SPST, SPDT); separate motor leads (DPST, DPDT).

ASTRONOMIC DIAL* *NOTE: When ordering switch with astronomic dial or astronomic dial unit itself, specify city and state in which it will be used.



The astronomic dial unit itself can be purchased separately, and easily interchanged in the field with standard plain dial on any TSA-47 or TSA-41 time switch. ON at sunset, OFF at 10 PM to 2 AM or sunrise, it automatically follows seasonal changes each day to give accurate sunset

to sunrise switching service. Just set it once and forget it. Contacts are UL listed 40-amp tungsten-rated.

CR121 X A1.....\$10.00 List Price

The Above Items Are Subject to 23% Discount

INTERMATIC TIME SWITCHES

SUPERVISOR SERIES T1900



96 permanently attached trippers provide up to 48 "on" and "off" operations of 15 minutes each per day. Skipper dial on some models. Drawn steel case, 7 3/4" h, 5" w, 3" d. gray hammer-tone finish. P1971 is portable plug-in model. UL and CSA approved.

Switch	Volts 60 Cyc.	Amps. Per Pole	Model No.	Each
SPDT	125	20	T1905	\$20.12
SPDT	125	20	T1975*	23.37
SPDT	250	20	T1906	20.77
SPDT	250	20	T1976*	24.02
SPDT	480	20	T1975E*	26.62
SPST	125	10	P1971	25.32

*With Skipper Feature.

ASTRONOMIC DIAL SERIES V25000



Adjusts automatically for seasonal changes in daylight hours. Turns lights on at sunset, off at sunrise all year round, or at selected time. Use for signs, parking lots, lights. Skipper dial omits selected days. Gray drawn steel case, 7 3/4" h, 5" w, 3" d. UL and CSA approved. Indicate city and state of installation when ordering.

Switch	Amps. Per Pole	Volts 60 Cyc.	Model No.	Each
DPST	40	120	V25073	\$20.12
DPST	40	240	V25074	20.77
SPDT	40	120	V25075	20.12
SPDT	40	240	V25076	20.77

V25000-SC SPRING-WOUND CARRY-OVER

Similar to above with spring-wound auxiliary carry-over device to keep time control operating during power failures of up to 10 hours. No resetting necessary. Swiss movement rewinds itself automatically. Models V25073-74-75-76 housed in rain-tight indoor-outdoor case, 9 5/8" h, 5 5/8" w, 5 1/2" d.

Switch	Volts 60 Cyc.	Amps. Per Pole	Model No.	Each
4PST	120	40	V25071-SC	\$64.97
4PST	240	40	V25072-SC	65.62
DPST	120	40	V25073-SC-R	55.22
DPST	240	40	V25074-SC-R	55.87
SPDT	120	40	V25075-SC-R	55.22
SPDT	240	40	V25076-SC-R	55.87

SEVEN DAY PROGRAMMER SERIES V26000

Provides a different program for every day of the week. Up to 4 operations per day with minimum of 3 hours between operations. Recommended for heating, air-conditioning systems, lights, loads which require daily scheduling. 40 amp tungsten rated contacts. Four pole single throw or 4 pole: 2 NO-2 NC switching. Gray drawn steel case, 10 7/8" h, 7 3/8" w, 3 3/8" d. UL and CSA approved.

Switch	Amps. Per Pole	Volts 60 Cyc.	Model No.	Each
4PST	40	120	V26001	\$21.09
4PST	40	240	V26002	21.74
4P: 2 NO-2 NC	40	120	V26003	21.09
4P: 2 NO-2 NC	40	240	V26004	21.74

V26000 SPRING-WOUND CARRY-OVER

Similar to above with spring-wound auxiliary carry-over device to keep time control operating during power failures of up to 10 hours. No resetting necessary. Swiss movement rewinds itself. Gray steel case, 10 1/4" h, 7 3/8" w, 4 5/8" d.

Switch	Volts 60 Cyc.	Amps. Per Pole	Model No.	Each
4PST	120	40	V26001-SC	\$56.84
4PST	240	40	V26002-SC	57.49
4P: 2 NO-2 NC	120	40	V26003-SC	56.84
4P: 2 NO-2 NC	240	40	V26004-CS	57.49

SCHEDULER SERIES V28000 — V29000



Provides 1 to 288 short interval operations per day. Recommended for controlling bells, buzzers, signals, industrial processes. Operates for periods of from 2-30 seconds at intervals of 2 1/2 minutes on 12 hour models, 2-60 seconds at 5 minute intervals on 24 hour models. Skips selected days. Includes 24 trippers and 3 skipping

screws. Gray steel case, 12 1/8" h, 9" w, 4 5/8" d. UL and CSA approved.

No. of Circuits	Minimum Time Between Settings	Amps. Per Pole	Volts 60 Cyc.	Model No.	Each
2	5 min.	6	125	V28177	\$63.96
2	5 min.	3	250	V28178	64.76

Above models have advance warning signal 2 sec. to 4 min. prior to major signal.

1	5 min.	6	125	V29171	59.96
1	5 min.	3	250	V29172	60.76
2	5 min.	6	125	V29177	79.96
2	5 min.	3	250	V29178	80.76
1	2 1/2 min.*	6	125	V29371	71.16
1	2 1/2 min.*	3	250	V29372	71.96
2	2 1/2 min.*	6	125	V29377	87.96
2	2 1/2 min.*	3	250	V29378	88.76

*12 hour dial models. All others are 24 hour dial.

TIME-ALL LAMP AND APPLIANCE TIMER



Turns lamps on and off in your home each evening when you're away—keeps prowlers away. Time-All makes almost any appliance automatic, starts and stops fans, heaters, roasters, refrigerators, de-humidifiers, radios, etc.

Sturdy plastic case in decorator colors. Sets on table or hangs on wall. 5 ft. heavy duty cord, plug and receptacle. Size: 5" wide, 4" high, 2 1/2" deep. UL and CSA approved.

Model No.	Type	Volts 60 Cyc.	Amps.	Watts	Each
Dove Gray Case, Oxford Gray Dial					
A921-6	Standard	125	7	875	\$8.64
Desert Sand Case, Oasis Bronze Dial					
A921-7	Standard	125	7	875	8.64
Champagne White Case, Mocha Brown Dial					
A911-6	Deluxe	125	15	1875	9.30

CLOCK-TIMERS

125 Volt

Model No.	Description	Each
A-301-4	Time-Minder with 1 hour Signal Timer	\$6.33*
A-301-1	Time-Minder with 4 hour Signal Timer	6.63*
15 Amp. — 1875 Watts		
A-401-4	Clock-Timer with 5 1/2 hour Timer..	8.64*
A-501	Music-Minder for Radios.....	8.64*

*Subject to Federal Excise Tax.

INTERMATIC TIME SWITCHES

CYCLER SERIES C8800

Used for ventilating equipment, heater, process equipment, pumps and motors. Provides repeat cycles of 5 minutes to 4 hours with operating periods of 2½ to 120 seconds. 10 sets of combination trippers provided. Drawn steel case, 7¾" h, 5" w, 3" d, gray hammetone finish. UL and CSA approved.

Switch	Dial Cycle	Tripper Actuating Time	Volts 60 Cye.	Amps. Per Pole	Model No.	Each
SPDT	5 min.	2½ sec.	125	20	C8855	\$15.57
SPDT	10 min.	5 sec.	125	20	C8815	15.57
SPDT	30 min.	15 sec.	125	20	C8835	15.57
SPDT	1 hr.	30 sec.	125	20	C8865	15.57
SPDT	2 hr.	60 sec.	125	20	C8825	15.57
SPDT	4 hr.	120 sec.	125	20	C8845	15.57

STANDARD SERIES T100



General-purpose, 24-hour time switch, ideal for defrosting, night lights, signs, pumps and motors. Permits up to 12 "on-off" operations per day. Drawn steel case, 7¾" h, 5" w, 3" d, gray hammetone finish. UL and CSA approved.

"SKIPPER" SERIES T170

Same as Series T100, plus additional 7 day dial that allows skipping of operations on selected days of the week.

Switch	Amps. Per Pole	Volts 60 Cy.	Series T100 Model No.	Each	Series T170 Model No.	Each
SPST	40	125	T101	\$ 9.07	T171	\$12.32
SPST	40	250	T102	9.72	T172	12.97
DPST	40	125	T103	10.37	T173	13.62
DPST	40	250	T104	11.02	T174	14.27
SPDT	40	125	—	—	T175	13.62
SPDT	40	250	—	—	T176	14.27
SPST	10	125	P101*	10.37	P171*	13.62

*Portable Plug-in Models.

HEAVY DUTY 55 AMP. SERIES T500-R



Rugged, heavy-duty time switches. Handles 27,500 watts tungsten, or motor loads to 2 HP. Skipper dial for omitting operations on selected days. Drawn steel raintight case, 9½" h, 6½" w, 3¾" d. UL and CSA approved.

Switch	Amps. Per Pole	Volts 60 Cy.	Series T500R Model Nos.	Each
DPST	55	125	T573-R	\$22.72
DPST	55	250	T574-R	23.37

THREE POLE SERIES AT 1300-R



Simultaneous operation of 3 single phase circuits or one 3-phase circuit. Up to 12 "on-off" operations per day. Skipper dial, drawn steel raintight case, 9½" h, 6½" w, 3¾" d, gray rust proof finish. UL and CSA approved.

Switch	Amps. Per Pole	Volts 60 Cy.	Model No.	Each
3PST	40	125	AT1371-R	\$22.72
3PST	40	250	AT1372-R	23.37
3PST	40	277	AT1371C-R	25.97
3PST	40	480	AT1371E-R	29.22

PARAGON® TIME CONTROLS

40 AMP. T-RATED TIME SWITCHES

4000 Series



The ideal switch for use on all lighting applications, incandescent or neon, pumps, blowers, etc. and many other industrial and central station uses. Compact case measures only 7¼"x4½"x2½". Quick-set dial — easy-add dial trippers. Spring clutch. Molded terminal blocks — king size terminal screws. Heavy-duty timing motor — sealed-in mechanism and lubricated for life.

Operations: Up to 14 (7 "on" — 7 "off") operations per day. Two trippers furnished as standard.

Cat. No.	Switch	Volts 60 Cye.	T-Rated Amps.	Each
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Indoor—Regular Duty

*4001-0	SPST	120	40	\$9.07
4003-0	DPST	120	40	10.37
4004-20	DPST	208-240	40	11.02

*When ordering with independent timing motor circuit, add suffix "V". This is standard on all other models in this series.

Indoor — Regular Duty — Skip-A-Day

4003-0S	DPST	120	40	13.62
4004-20S	DPST	208-240	40	14.27
400-0S	SPDT	120	40	13.62
4006-20S	SPDT	208-240	40	14.27
4007-6S	SPDT	24	40	14.92

Outdoor — With Skip-A-Day

4013-0S	120	DPST	40	20.12
4014-20S	208-240	DPST	40	20.77

Indoor—Astro Dial®— Skip-A-Day

4003-0SZ	DPST	120	40	20.12
4004-20SZ	DPST	208-240	40	20.77
4005-0SZ	SPDT	120	40	20.12
4006-20SZ	SPDT	208-240	40	20.77

Outdoor — With Astro Dial® and Skip-A-Day

4013-0SZ	120	DPST	40	26.62
4014-20SZ	208-240	DPST	40	27.27
4015-0SZ	120	SPDT	40	26.62
4016-20SZ	208-240	SPDT	40	27.27

24-HOUR, 4-POLE, 40 AMP., T-RATED ASTRO DIAL®, SKIP-A-DAY

47010 Series Indoor-Outdoor Case

Available with Spring Wound Carry-Over. Maintains preset schedules for a minimum of 10 hours during power failure. Unequaled in load-carrying capacity.

Dimensions: 47000 Series — 10¾" high, 7¾" wide, 3¾" deep. 47200 Series (Carry Over Model) — 10¼" high, 7¾" wide, 4¾" deep.

Finish: Grey case, red and white dial.

Model	Volts 60C	Each
47017-0S	With Skip-A-Day 120	\$22.72
47017-20S	208-240	23.37
Both 4PST — 4NO — 40 Amp. T-Rated Per Pole		
With Skip-A-Day and Astro Dial®		
47017-0SZ	120	29.22
47017-20SZ	208-240	29.87
Both 4PST — 4NO — 40 Amp. T-Rated Per Pole		

PARAGON® TIME CONTROLS

MULTI-PURPOSE, 7-DAY CALENDAR DIAL

7000 SERIES



The ultimate for all heating, ventilating and air-conditioning applications. 40 amp. per pole non-inductive load. The 7000 Series allows automatic ON-OFF operation at different hours each day if desired. Any day or days can be entirely omitted. Settings can be made a week in advance and changed if necessary. 4-pole construction allows the same control to be used for all switching combinations.

Indoor case.

Operations: Up to 28 ON-OFF operations per week or 4 ON-OFF operations per day. Completely adjustable. 3-hour minimum between operations. Available with Spring Wound Carry-Over. Keeps preset schedules ON time for a minimum of 10 hours during power failure.

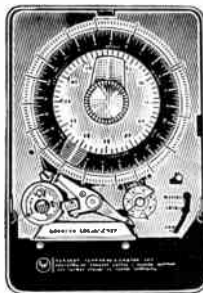
Dimensions: 7000 Series — 10 7/8" high, 7 3/8" wide, 3 5/8" deep. 7200 Series (Carry Over Model) — 10 1/4" high, 7 3/8" wide, 4 3/8" deep.

Finish: Grey case, black and silver dial.

Model	Volts 60C	Each
7007-0	120	\$21.09
7007-20	208-240	21.74
Both 4PST — 4NO — 40 Amp. T-Rated		
7008-0	120	21.09
7008-20	208-240	21.74
Both 4 Pole — 2NO-2NC — 40 Amp.		

PARAGON® PROGRAM INSTRUMENTS

23000-S SERIES



Provides pre-warning and main signals, adjustable from 4-60 seconds at 5-minute increments — skip-a-day omitting device — manual On-Off lever — 24-hour dial. Ideal for programming audible signals in school, stores, offices, institutions and for daily testing of volunteer fire alarm systems.

Operations — 23000S Program Instrument: 24-hour dial in 5-minute increments; main and pre-warning signals adjustable 4-60 seconds; pre-warning signal adjustable 1-3 minutes before main signal.

25000-S SERIES PROGRAM TIME SWITCH

For precision timing at 5-minute On-Off intervals — for control of music systems in plants, offices, restaurants and institutions—church bells —process timing in food, etc.

Operations—25000S Program Time Switch: 24-hour dial in 5-minute increments; contact closure in 5-minute On-Off intervals. Skip-A-Day feature standard on both series.

Specifications: 23000-S and 25000-S Series:

Dimensions: 10 7/8" high, 7 3/8" wide, 3 5/8" deep. Finish: Case — Two-tone Grey; Dial — Black and silver. Shipping weight: 8 1/2 lbs. each.

Model No.	Volts 60C	Switch	Amps.	Each
23001-0S	120	SPST	10	\$59.96
Program Instrument				
25001-0S	120	SPST	10	55.96
Program Time Switch				

PARAGON® MANUALLY PRESET INTERVAL TIMER

2900 SERIES



Manually preset interval timer to open or close a load circuit after a preset interval. Excellent answer to many commercial and industrial timer problems. Has 7 time ranges between 5 minutes and 20 hours plus visual and audible signal devices as accessory features. Accurate to less than 1% of total dial range.

Dimensions: 8" high, 4 3/4" wide, 3" deep.

Finish: Case: Gray. Dial: Silver and Black. Shipping Weight 4 lbs. each. Load Cap.

Model	Time Range	Volts 60 Cy.	Watts	Each
2904-0	0-5 minutes	120	1000	\$18.28
2905-0	0-15 minutes	120	1000	18.28
2906-0	0-30 minutes	120	1000	18.28
2907-0	0-60 minutes	120	1000	18.28
2908-0	0-5 hours	120	1000	18.28
2909-0	0-10 hours	120	1000	18.28
2910-0	0-20 hours	120	1000	18.28

Note: Available for 240 volts. Change last digit in catalog number to "3" when ordering. Add \$0.85 to suggested price.

PARAGON® AUTOMATIC RESET CYCLE REPEATERS

516 SERIES



A single timer with two concentric dials to set ON and OFF times separately. Ideal for cycle repeater application requiring a wide variety of timing or very short ON periods at relatively infrequent intervals. Each dial can have different ranges.

Dimensions: 10" high, 5 5/8" wide, 3 1/8" deep.

Finish: Grey case, silver and black timing dial, yellow and black frequency dial. Shipping weight 6 lbs. each.

120 Volts, 60 Cycle

Model	Capacity		Time Range	Each
	Switch	Amps.		
516-200-0	SPDT	125	2 min.- 1 min.	\$68.00
516-210-0	SPDT	125	1 hr. - 1 hr.	68.00
516-220-0	SPDT	125	1 hr. - 1 min.	68.00
516-230-0	SPDT	125	8 hr. - 8 min.	68.00
516-240-0	SPDT	125	24 hr. -24 min.	68.00

Note: Available for 240 volts. Change last digit in catalog number to "3" when ordering. Add \$1.70 to suggested price.

PARAGON® 500 SERIES AUTOMATIC RESET AND TIME DELAY TIMERS

For Sub-Panel Mounting



A complete series of automatic reset timers to meet a variety of control and automation applications. Five time ranges: extreme accuracy; 2-SPDT switches rated at 720 VA Pilot Duty each. Dimensions: 4 3/8" long, 4 1/8" deep, 4 3/8" high.

120 Volts, 60 Cycle

ON DELAY Cat. No.	INTERVAL OFF DELAY Cat. No.	Time Range	Each
500-022-0	501-022-0	502-022-0	15 Sec. \$34.00
500-102-0	501-102-0	502-102-0	1 Min. 34.00
500-102-0	501-102-0	502-102-0	1 Min. 34.00
500-112-0	501-112-0	502-112-0	3 Min. 34.00
500-122-0	501-122-0	502-122-0	5 Min. 34.00
500-132-0	501-132-0	502-132-0	1 Hr. 34.00
500-142-0	501-142-0	502-142-0	5 Hr. 34.00

Note: Available for 240 volts. Change last digit in catalog number to "3" when ordering. Add \$1.70 to suggested price.

SANGAMO TIME SWITCHES

**TYPE L — SYNCHRONOUS
TYPE W — SYNCHRONOUS CARRYOVER**

Type LHE-21



Sangamo Hysteresis, high-torque self-starting motor, slow speed 450 r.p.m. unaffected by extreme temperatures. Pure cadmium silver contacts, conservatively rated 35 amperes on Types 11, 12, 21. Two pairs of setting levers, 90 minutes between "off" and "on", 30 minutes between "on" and "off". Reversible time

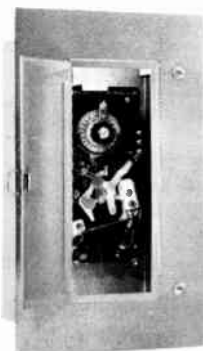
limits if ordered. Gasket sealed, rain proof case. Dimensions: 10 1/4 inches high, 5 1/4 inches wide, 4 inches deep overall. Shipping weight, approximately 7 lbs. Type W, by combining synchronous timing with reserve spring clock operation, provides accurate timing during power outages up to 10 hours and eliminates necessity of resetting of dial.

Type	Poles	Throw	AC Amperes per Circuit	Each
L-11*	Single	Single	35	\$23.77
L-21*	Double	Single	35	26.25
L-31	Triple	Single	15	31.50
L-12*	Single	Double	35	26.25
LQ-22	Double	Double	15	29.25
LQ-32	Triple	Double	15	33.75
LH-LYH	"On" Omitting Device, add.....			2.25
LF	"Off" Omitting Device, add.....			2.25
LHE	Advance Time Cutoff, add			6.00
LFE	Advance Time Device & Off Omitting			6.00
LR	Extra Setting Levers, per pair....			.75
LG	Reverse Time Limits, no extra charge.			

Type	Poles	Throw	AC Amperes per Circuit	Each
W-11*	Single	Single	35	\$41.77
W-21*	Double	Single	35	44.25
W-31	Triple	Single	15	49.50
W-12*	Single	Double	35	44.25
WQ-22	Double	Double	15	47.25
WQ-32	Triple	Double	15	51.75
WH-WYH	"On" Omitting Device, add.....			2.25
WF	"Off" Omitting Device, add.....			2.25
WHE	Advance Time Cutoff, add			6.00
WFE	Advance Time Device & Off Omitting			6.00
WR	Extra Setting Levers, per pair....			.75
WG	Reverse Time Limits, no extra charge.			

*U.L. Approved.

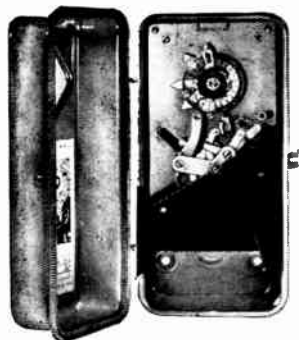
TYPES NL AND NW SYNCHRONOUS FLUSH-MOUNTING



Synchronous time switches housed in a flush-mounting case for panel or wall installation. Time switch movement is standard Type L or Type W (automatically-wound spring carryover). Same options available. Case is deep-drawn steel. Lock available. Gray-enamel finish. Size: 12 1/2 x 6 1/2 x 4 1/2 inches. Add \$15.00 list to desired L or W time switch for N case.

Standard Motors: Specify 120 or 240 volts, 60 cycle. Special motors: 50 cycle, add \$0.75; 24 volt, add \$0.75; 480 volt (60 cycle) on 11, 12, 21 types add \$7.50.

**2-CIRCUIT TYPES LY AND WY
(Supersedes KAY and VSWY)**

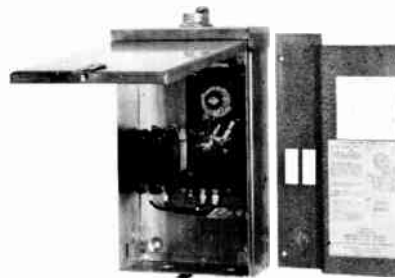


Type LY

Type	Description	A.C. Amp. Per Circuit	Each
LY-11	Two Circuit	35	\$43.00
WY-11	Two Circuit	35	67.00

The synchronous Type L and carry-over Type W in two circuit construction. The "on" and "off" operations of each circuit are independent, (except when Omitting Device or Astronomic Dial is required). Equipped with 2 pairs of tripping levers.

TYPES FLZ AND GLZ COMBINATION WITH OVER-CURRENT PROTECTION



FLZ and GLZ time switches combine a standard L synchronous time switch with entrance switch and overcurrent protection in an outdoor enclosure, eliminating the need for three units. FLZ is fused, GLZ has circuit breakers. Weatherproof, sealable metal case with hinged front cover. Conduit knock-outs in sides and bottom; 1-inch threaded bushing in top. Size: 14 3/4 x 8 x 4 inches (GLZ); 16 1/4 x 5 1/4 x 4 1/4 inches (FLZ).

Type	Poles	Throw	A.C. Amp. per Circuit	Each
FLZ-21	Double	Single	30	\$70.80
GLZ-11	Single	Single	15†	77.00
GLZ-21	Double	Single	15†	97.90
GWZ-11	Single	Single	15†	101.00
GWZ-21	Double	Single	15†	

†20 or 30 amp. when specified.

ASTRONOMIC DIAL



When a Sangamo Time Switch is fitted with an Astronomic Dial it will automatically turn light "on" at sunset and "off" at sunrise, compensating progressively day by day for the change in seasons. Or, this dial permits the "off" operation at any time between 9:30 p.m. and 2:15 a.m.

Ideal control for: outdoor advertising, street-, flood-, air-beacon, light house-, and yard-lighting. For latitudes 20°, 27 1/2°, 30°, 32 1/2°, 35°, 37 1/2°, 40°, 42 1/2°, 45°, 50° and 52°, add \$11.00. The latitude or geographic location must be specified.

**TORK TIME CONTROLS
ASTRONOMICAL DIAL TYPE**



Completely pre-set. Turns ON automatically at sunset in city of use. OFF time — 8:30 PM to 3:30 AM or at sunrise. Entirely mechanical. Ideal for signs, show windows, parking lots, etc. Positive assurance ON time will occur when needed. No re-setting necessary. Can skip selected days. Shipping weight, 4 lbs.

Model No.	Switch	Amps. per Pole	Each
7100Z	SPST	40	\$20.12
7200Z	DPST	40	22.72
7300Z	3PST	40	32.47
7120Z	SPDT	40	22.72
7220Z	DPDT	40	38.97
TZ120	SPDT	20	45.50
TZ200	DPST	20	61.75
TZ300	3PST	20	71.50

*Includes manual override 3-way switch, one per pole.

7 DAY CALENDAR DIAL — W SERIES



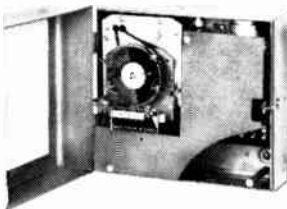
Dial revolves once a week permitting longer or shorter periods of operation for each individual day of the same week, as well as omitting any day. This is required in commercial applications where working hours vary from day-to-day such as

stores and shopping centers. Includes all features of plain dial models. 7-day dial. Minimum setting, 1 hour. Shipping weight 11 lbs.

Model No.	Switch	Amps. per Pole	Each
W-100	SPST	40	\$22.07
W-200	DPST	40	23.37
W-300	3PST	40	27.92
W-120	SPDT	40	23.37
W-220	DPDT	40	25.97
TW-120*	SPDT	20	45.50
TW-220*	DPDT	20	61.75
TW-300*	3PST	20	71.50

*Includes manual override 3-way switch, one per pole.

MOMENTARY CONTACT TIME SWITCH



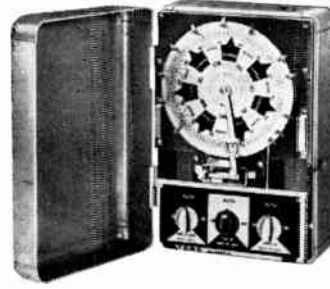
For automatic switching of lighting or other circuits where control is used with push-button operated contactors, both mechanically-held and magnetically-held. Separate circuits for ON and OFF pulses are pro-

grammed from any one of three dial options, 24 hour, weekly calendar, or astronomical (sunset-ON).

All models have option to omit lighting on selected days. Also suited for low voltage control systems (specify 24 volt AC).

Model No.	Voltage	Dial	Each
1837W	120	7-day	\$61.10
2-1837W	240	7-day	67.60
4-1837W	24	7-day	67.60
1837SK	120	24-hour	39.65
1837ZSK	120	Astronomic	52.65

**TORK LIGHTING CONTROL CENTERS
T-900 SERIES**



Combines all the advantages and versatility of photocontrol and time switch control providing considerable flexibility over straight time or photocontrol.

Lighting comes ON automatically at the time it is needed, regardless of the season or the weather, without the need to keep lighting on until dawn as with straight photoelectric control. Lighting goes OFF at any preset time—OFF can be individually set for each day of the week. Days can be skipped entirely.

Switching is SPDT — can control either mechanically held or magnetically-held contactors or 2000 Watts incandescent direct. Available with additional dusk-to-dawn safety lighting circuits. Manual bypass switches prewired in each circuit. Photoelectric control unit is separately mounted, so both Photocontrol and time switch are easily adaptable to almost any conditions existing on the job and can be installed wherever convenient.

Model No. Includes Both Photo and Time Control

Model No.	Description	Each
T901	Dusk-ON — preset OFF	\$ 78.00
T902	With All-Night Safety Lighting Circuit added	91.00
T903	Above plus Third Circuit, preset ON — preset OFF	104.00

INTERMITTENT PROGRAM TYPE

For control of ventilating fans, pumps, program heating, poultry feeding, irrigation, traffic signals and special applications. 96 tabs on 24-hour dial permit 15-minute switch changes. Easily set by tilting tabs in or out by hand. When adjacent tabs are set alike switch remains ON or OFF as set. Up to 96 operations per day. Minimum ON or OFF time 15-minutes—maximum 23 hours, 45 minutes. Available with and without week-end skip features. Shipping weight 4 lbs.



Model No.	Switch	Description	Each
8001	SPDT	Daily Operation	\$20.12
8007SK	SPDT	Skips Selected Days	23.37
60M8001	SPDT	One-Hour Dial	19.47

TORK REPEATING CYCLE TIMERS

Percentage Calibrated



For controlling various industrial machinery and processes such as chemical feeding, product life testing, intermittent lighting, animated displays, vending machines, conveyors, etc., or any operation requiring one contact closure per cycle, single or multiple circuit.

Available in almost any cycle from 30 seconds to several hours.

Price on Application

TORK TIME SWITCHES

7000 SERIES



Turns any electrical circuit ON and OFF automatically each day. Available up to 3-pole 40 Ampere, and Double Pole, 55 Ampere capacity. Provided with week-end and holiday skip feature (skips 1 to 6 days). Skip feature does not have to be used. Switch operates every day unless set to skip selected days. Extra heavy-duty timing motor operates from -60° to +200° F. Fast, easy installation. "Quick-Out" feature enables instant removal of mechanism from enclosure without tools. K.O.'s on top of case as well as side, bottom. Lug type terminals take up to #6 wire without bending. Fully rated for incandescent lamp loads. Convenient manual operation any time without disturbing automatic settings. Minimum setting 20 minutes. Shipping weight 4 lbs. 120 volts, 60 cycle.

Model No.	Switch	Amps. per Pole	Each
7100	SPST	40	\$12.32
7200	DPST	40	13.62
7200H	DPST	55	22.72
7300	3PST	40	22.72
7120	SPDT	40	13.62
7220	DPDT	40	25.97

RESERVE POWER FEATURE

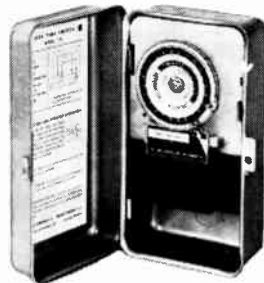
(Available On Most Models)

To keep time during power interruptions up to 16 hours, add suffix "L" for spring-wound reserve. Rewinds automatically on restoration of power.

Price adds:
 120 volt, 60 cycle.....\$35.75
 240 volt, 50/60 cycle.....42.25

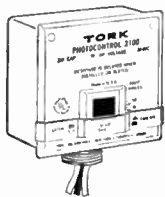
TORKMASTER SERIES

Similar to #7000 Standard Line. Twenty-four hour dial. Same ON-OFF time each day. Cannot skip selected days. Shipping weight 4 lbs.



Model No.	Switch	Amps. per Pole	Each
1191	SPST	40	\$9.07
1962	DPST	40	10.37
2-1962	DPST	40	11.02

TORK PHOTOELECTRIC CONTROLS



Lighting is automatically turned on at dusk or when local weather and sky luminosity require artificial illumination, and is turned off at daybreak. Tork photo-electric controls are accurate, dependable, and economical, and they don't need resetting after a power failure. SPST rated 1500 watts incandescent.

Model No.	Voltage 50 or 60 Cycles	Description	Switch	Each
2100	105-130V	½" Fitting	SPST	\$9.72
2102	208-240V	½" Fitting	SPST	10.37
2000*	105-130V	Lock Plug	SPST	11.02
2002*	208-240V	Lock Plug	SPST	11.67

*For adapter bracket for pole mounting with lock receptacle add "B" to Model No. and \$6.50.

SANI-DRI ELECTRIC HAND DRYERS



Sani-Dri eliminates all towel expense; saves thousands of service-cost dollars over cloth and paper toweling.

Sani-Dri drastically reduces costly maintenance man-hours spent in waste clean-up, ordering, storing and refilling towel cabinets — automatically eliminates the cost and time consuming problems caused by waste paper fire hazards, clogged plumbing, etc.

Clinical tests prove electric air drying more sanitary. Sani-Dri's revolutionary engineering means an end to messy, cluttered washrooms, assures un-failing, trouble-free 24-hour performance.

WALL MODEL No. 12-5

The very latest in fast, efficient, automatic drying. Decorator styled to blend perfectly with today's most modern washrooms. Available in 115 or 230 volts.

Push Bar Starter with automatic shut-off. White porcelain enamel finish. Die cast aluminum. Bright Chrome plate finish nozzle and push bar.

Size: 10 1/8" wide x 8 3/4" high.

Extends: 9" from wall.

Shipping weight: 20 lbs.

No. 12-5 — Surface Mounted, 110-Volt. each \$133
 No. 12-5A — Surface Mounted, 220-Volt. each 133

SEMI-RECESSED MODEL No. 12-6

Especially suited to new construction. Unit takes less space. All wiring is concealed. Available in 115 or 230 volts.

Push Bar Starter with automatic shut-off. White porcelain enamel finish. Die cast aluminum Bright chrome plate finish nozzle and push bar.

Size: 15 1/4" wide x 11" high.

Extends: 6 3/8" from wall — 3 1/8" into wall.

Wall opening: 14 1/2" x 10 1/8".

Shipping weight: 60 lbs.

No. 12-6 — Recessed, 110 Volt.....each \$139.50
 No. 12-6A — Recessed, 220 Volt.....each \$139.50

CORDLEY ELECTRIC WATER COOLERS

"CORDWALL WALL-HUNG"

mounts on the wall with a full 19 inches of clearance between cooler and floor. This feature, combined with flush-to-wall mounting, eliminates unreachable areas to collect dust. Plumbing enclosed, yet easily accessible. Mount at any desired lower height to accommodate children. Extra outlet provided for companion fountain. Hanger bracket and template furnished. Measures 15 $\frac{3}{4}$ " wide, 13" deep, 20 $\frac{1}{16}$ " high.

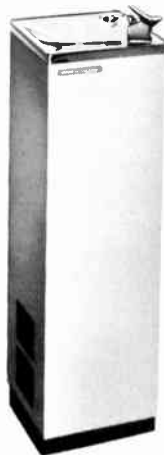


Model No.	(1) Capacities Gals. per hr.	Approx. Domestic shp. wgt.	Price
Air cooled:			
WHA-6	6.0	83	\$175.00
WHA-8	8.0	85	176.50
WHA-12	12.0	87	182.50
WHA-15	15.0	89	189.00
Water cooled:			
WHA-10W	10.0	85	206.00
WHA-17W	17.0	87	222.50

(1) Std. rating conditions: Room Temp., 90°F., Water in 80°F., Water out 50°F. Listed by Underwriters' Laboratories.

CORDLEY "COMPACT" SERIES

The newly styled "COMPACT" requires only one-square foot of floor space. Measures 40" in height. Lower in cost without sacrificing quality, lighter in weight without sacrificing sturdiness. Plumbing accessible at rear, without removing cabinet. Foot pedal available as factory-installed accessory at extra cost. Glass filler available as optional accessory, except for Model HA-4.

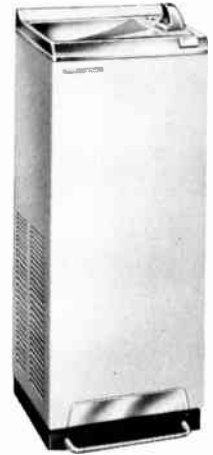


Model No.	(1) Capacities Gals. per hr.	Approx. Domestic shp. wgt.	Price
Static cooled			
HA-4	3.9	75	\$138.00
HA-8S	8.1	78	155.00
Air cooled:			
HA-6	6.0	83	150.00
HA-11	11.0	87	161.00

(1) Std. rating conditions are: Room Temp., 90°F., Water in 80°F., Water out 50°F.

"CORDWALL FLOOR STYLE"

mounts flush to wall; eliminates unreachable areas to collect dust. If desired, install recessed in an alcove or free standing on an island. Openings for plumbing and electrical supply through removable rear panel or through base. Full front panel also removable for convenient accessibility. Dual controls include light-touch pushbutton plus foot pedal. Measures 15 $\frac{3}{4}$ " wide, 13" deep, 43" high.



Model No.	(1) Capacities Gals. per hr.	Approx. Domestic shp. wgt.	Price
Air cooled:			
CWA-6	6.0	107	\$175.00
CWA-8	8.0	109	176.50
CWA-12	12.0	111	182.50
CWA-15	15.0	113	189.00
CW-20	20.0	124	238.50
Water cooled:			
CWA-10W	10.0	116	206.00
CWA-17W	17.0	106	222.50
CW-22W	22.0	120	253.50

(1) Std. rating conditions are: Room Temp., 90°F., Water in 80°F., Water out 50°F. Listed by Underwriters' Laboratories.

CORDLEY COMPACT BOTTLE TYPE

EASILY INSTALLED, light weight, portable . . . Cordley Compact Bottle Coolers require no plumbing: just plug in power cord. Cabinet finished in Sandalwood baked enamel. Accommodates 2, 3, or 5-gallon bottle. **HOT & COLD MODEL** GH-1S has safety cut-out thermostat to protect against overheating. *Hot water delivery is 60 six-ounce cups hourly at 180°F.*



Model No.	(1) Capacities Gals. per hr. of 50° Water	Approx. Domestic shp. wgt.	Price
G-1S	1.0	59	\$ 89.00
GH-1S		65	145.50
GA-2S	2.2	69	114.50

(1) Std. ratings at 90° room temp. Listed by Underwriters' Laboratories. Bottles not furnished with bottle type coolers.

Other models include an explosion proof series for hazardous locations; refrigerated compartment types; a semi-recessed style for new building construction, and packaged water chillers for remote type installations.

OASIS WATER COOLERS

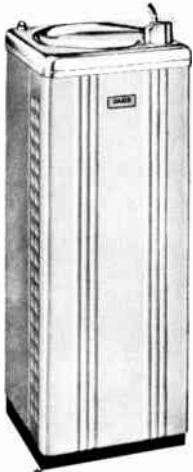
Oasis water coolers are available in a wide range of capacities for every conceivable need . . . in industry, the office and the home — cold only or Hot 'N Cold models. Hot 'N Cold models double the usefulness, delivering hot water for instant beverages as well as cold water.

A complete line of accessories also are offered including glass filler and foot pedal options.

Ebeo Manufacturing Company's Five Year Warranty covers the entire water cooler against defects in materials and workmanship, under normal use and service.

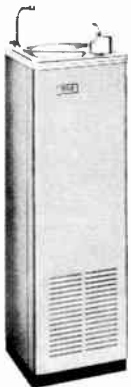
The models illustrated and listed below represent only a sample of Oasis coolers available through Graybar. For details and specification sheets on the complete line, see your nearest Graybar branch.

FREE STANDING PRESSURE MODELS



Model 7P

Oasis Constellation series water coolers are available in capacities of 7 and 13 gallons per hour to meet a wide variety of needs. The handsomely styled, heavy gauge steel Mocha Tan cabinet makes the cooler attractive enough for office installation, yet durable enough to withstand factory use. And for extra corrosion protection, a stainless steel cabinet is available. A special "Low Boy" model is only 31" high, just right for children and wheelchair patients.

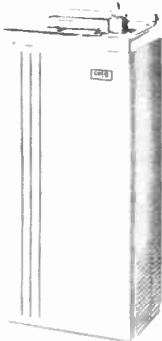


Model OCP3H

CHALLENGER MODELS

Lower initial cost, economical operation, and compact design make these coolers suitable for home and office. Available in three capacities, they require only one square foot of floor space. Cabinets of heavy gauge steel are sturdy enough to withstand normal industrial use. OCP3H has Hot 'N Cold feature, providing 45 cups of piping hot water per hour. Glass filler adaptor kits are available for field installation except on model OCP3H.

AGAINST-A-WALL MODELS



Model ODP8A

Functional, yet smoothly styled in Mocha Tan cabinet with delicate front panel fluting, the unit can be used flush against a wall or as a free standing cooler. When installed flush against the wall, all plumbing connections are concealed saving as much as 30% of the floor space. Two coolers can also be installed back to back. Available in eight (ODP8A) and thirteen (ODP13A) ghp cold water capacities. Provision made for field installation of glass fillers on models ODP8A and ODP13A. ODP8AH has Hot 'N Cold feature.

SPECIAL PURPOSE MODELS



Model ODP15W-SCP

Explosion Proof models, Dust and Heat Resistant models, Stainless Steel models — OASIS has them all. Model ODP15W is water cooled for use where dust, dirt, lint and severe heat are problems. MODEL ODP10X is excellent for use in locations where explosive conditions prevail. MODEL ODP20 combines big 20 gph capacity and modern attractive cabinet. All these models are available in stainless steel for use where corrosion may result.

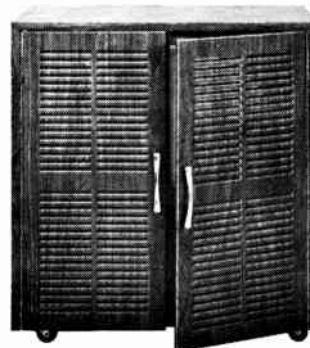
NUMBER OF PEOPLE SERVED

Model	Capacity	NUMBER OF PEOPLE SERVED			Each
		Offices	Light Industry	Heavy Industry	
13 P	12.7	152	89	50	\$193.00
13 PL	12.7	152	89	50	197.50
7P	7.0	84	49	28	182.50
OCP10	10.0	120	70	40	170.00
OCP5	5.5	66	38	22	160.00
OCP3	3.7	37	21	12	146.50
OCP3H	3.7	37	21	12	181.00
ODP13A	13.0	156	91	52	197.50
ODP8A	8.0	96	56	32	187.50
ODP8AH	8.0	96	56	32	224.50
ODP15W	15.0	180	105	60	230.00
ODP10X	9.5	114	66	38	237.00
ODP20	20.0	241	141	100	243.50

OASIS HUMIDIFIERS & DEHUMIDIFIERS

Oasis Dehumidifiers pull excess moisture from the air in basements and other enclosed areas — help stop "sweating" walls, musty odors, rust and corrosion. Three new models, two capacities: OD-100 and OD-200 remove 13 pints of water from air daily; OD-300 removes 24 pints. Five Year Warranty — NEMA certified performance.

Oasis Humidifier Model OH-600 brings new winter comfort to home or office. Enjoy trouble-free, automatic humidity control without costly equipment and installation. Walnut grain vinyl-on-aluminum cabinet is an attractive addition to any setting.



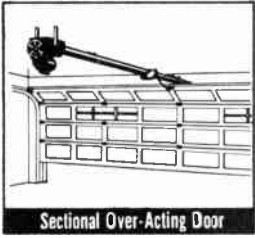
Model OH600
\$64.50



Model OD200
\$74.90

ROBOT OPERATORS:

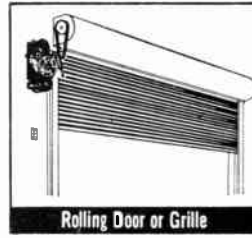
For All Type of Doors (typical-illustrations)



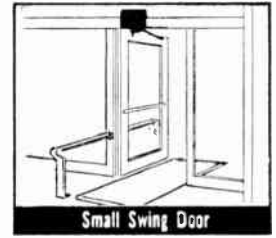
Sectional Over-Acting Door



One-Piece Sliding Door

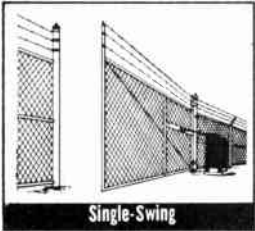


Rolling Door or Grille

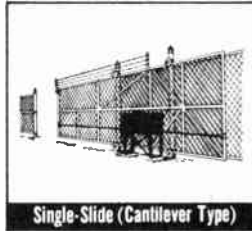


Small Swing Door

ROBOT OPERATORS: For All Type of Gates (typical-illustrations)



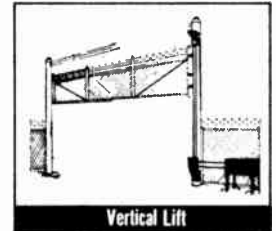
Single-Swing



Single-Slide (Cantilever Type)



Double-Slide (Overhead Track Type)



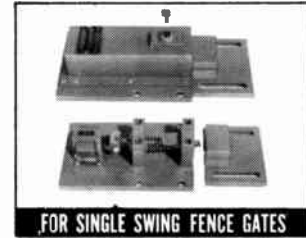
Vertical Lift



FOR LOCKING SLIDING FENCE GATES

ROBOT ELECTRO-MECHANICAL LOCKS:

For Doors and Gates (typical-illustrations)



FOR SINGLE SWING FENCE GATES

ROBOT TURNSTILES: Security and Low-Type (typical-illustrations)



SECURITY TURNSTILE GATES

One-Way Passage Models
Two-Way Passage Models

Manually Controlled Models
Electrically Controlled Models



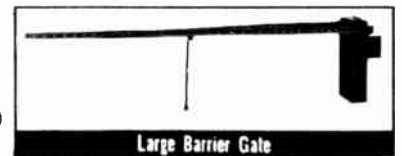
LOW TURNSTILE GATES

ROBOT BARRIER GATES:

For Parking-Lots and Crossings (typical-illustrations)



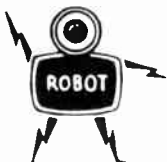
Parking Lot Gate



Large Barrier Gate



ROBOT MAT-SWITCH: Top surface 'Koroseal' durable, water-proof, cannot be harmed by oil, grease, most solvents or chemicals, will not crack or chip.
STANDARD SIZES: Thickness 5/16". Widths: 12", 18", 24", 30". Lengths: 30", 45", 60". Other Sizes available as may be required.



Detailed information and installation instructions on the ROBOT UNITS and CONTROLS; which will meet each specific job requirements most satisfactorily and economically, prices quotation and delivery, will be furnished upon request.

AIRMASTER VENTILATING EQUIPMENT

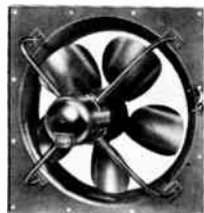
Division of Hayes Ind. (Formerly Diehl)



LOW PRESSURE DIRECT DRIVE FANS

- 12-Inch, 16-Inch, 18-Inch
- Panel Mounted With Guard
- Totally Enclosed Motors
- 115 Volt, 60 Cycle, 1 Phase

Size In.	Cat. No.	HP	RPM	CFM @ 0"	Fan Each	Shutter Each
12	12EP16	1/22	1550	850	\$32.50	\$ 9.75
16	16EP16	1/4	1050	1630	40.30	11.70
18	18EP16	1/6	1050	2330	46.80	13.00

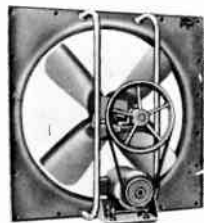


18-Inch to 36-Inch Direct Drive

- Panel Mounted
- Guards and Penthouses Available
- Steel Die Formed Blades
- Totally Enclosed Motors

Size In.	Cat. No.	HP	RPM	CFM @ 0"	Fan Each	Shutter Each
Single Phase — 115/230 Volt						
18	H18FPD16*	1/8	1100*	2560	\$81.90	\$13.00
24	H24FPD16*	1/5	800*	4150	115.70	17.55
30	H30FPD16*	5/8	800*	7500	170.30	21.45
36	H36FPD16*	3/4	650*	10315	270.40	31.85
Three Phase — 208-220/440 Volt						
18	H18EPD836	1/8	1100	2560	83.20	13.00
24	H24EPD836	1/5	800	4150	117.00	17.55
30	H30EPD836	5/8	825	7730	197.60	21.45
36	H36EPD836	3/4	670	10620	260.00	31.85

*Can be operated at two-speed on 115 volt by using switch No. 820875.....\$10.40 list.



LOW PRESSURE BELT DRIVEN PANEL FANS

- 24-Inch to 48-Inch
- Totally Enclosed Motors
- Quiet Operating Deep Pitched
- Steel Blades
- Two-Speed Units Available
- Guards and Penthouses Available

Size In.	Cat. No.*	HP*	Fan RPM	CFM†	Fan* Each	Shutter Each
24	H24B1	1/3	870	5161	\$106.60	
	H24B2	1/2	1000	5984	132.60	\$17.55
	H24BP3	3/4	1140	6281	154.70	
	H24BP4	1	1232	7375	166.40	
30	H30B1	1/3	569	7479	126.10	
	H30B2	1/2	655	8610	152.10	
	H30BP3	3/4	745	9790	163.80	21.45
	H30BP4	1	800	10505	180.70	
	H30BP5	1 1/2	930	12235	195.00	
36	H36B1	1/2	555	10100	174.20	
	H36BP2	3/4	650	11824	184.60	
	H36BP3	1	703	12785	201.50	31.85
	H36BP4	1 1/2	817	14870	218.40	
	H36BP5	2	902	16550	232.70	
42	H42BP1	3/4	425	14080	226.20	
	H42BP2	1	505	16600	230.10	
	H42BP3	1 1/2	554	18225	250.90	43.55
	H42BP4	2	612	20130	273.00	
	H42BP5	3	720	23685	309.40	
48	H48BP2	1	394	19700	248.30	
	H48BP3	1 1/2	450	22490	262.60	
	H48BP4	2	506	25230	278.20	47.45
	H48BP5	3	583	29140	321.10	
	H48BP6	5	700	34960	370.50	

*All fans are available for either 115/230 volt single phase or 220/440 volt 3-phase service. Popular models listed herein are for single phase in 1/8 and 1/2 HP and 3-phase in 1/4 HP and larger units. †CFM shown is for free air. Fans suitable for 1/4" SP.

AIR CIRCULATORS



Floor Model



Counter Model



Wall Model

- 24-Inch thru 30-Inch 2-Speed
- Cast Aluminum High Performance Airfoiled Shaped Blades for Quietness
- Totally Enclosed 115 Volt 1-Phase Motors for 1100/800 RPM Pull Control (Also available in 3-Phase and Explosion-Proof Motors)
- Super Safety Guards
- Adjustable 5-8 Foot Pedestals
- Equipped with 3-Conductor Cord and Plug
- Oscillating and Non-Oscillating

Cat. No.	Model	Wt. Lbs.	Each
24-Inch Oscillating — 1/4 HP			

87BN-S	Floor	97	\$143.85
87LN-S	Counter	61	140.40
87WN-S	Wall	61	141.70

24-Inch Non-Oscillating — 1/4 HP			
---	--	--	--

24LF16-S	Floor	80	96.20
24LC16-S	Counter	44	83.85
24LW16-S	Wall	44	82.55
24LS16-S	Ceiling	39	84.50

30-Inch Non-Oscillating — 1/4 HP			
---	--	--	--

30LF16-S	Floor	89	104.00
30LC16-S	Counter	53	61.65
30LW16-S	Wall	53	90.35
30LS16-S	Ceiling	48	95.55

HEAVY DUTY MAN COOLING FANS



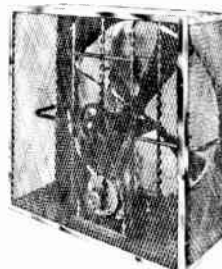
- High Stand Shown. Lower Cost Medium Height and Low Models Available
- Totally Enclosed Motors
- Cast Aluminum Blades
- Channel Non-Tip Supports
- Heavy Mesh Wire Guards

Popular Models†

Size In.	Cat. No.	HP	RPM	Wt. Lbs.	Each
24	24M-2*	1/2*	1725	300	\$288.60
30	30M-1*	1/2*	1725	320	314.60
30	30MP-2	1 1/2	1725	350	408.20
34	34MP-1	1 1/2	1725	500	452.40
34	34MP-3	3	1140	550	514.80
42	42MP-1	2	1140	650	540.80
42	42MP-3	5	1140	700	666.25

‡220/440 volt, 3 phase.
*115/230 volts model — all others 3-phase.

PROTECTIVE REAR WIRE GUARDS



For Wall Fans

Fan Dia. In.	Cat. No.	Each
18	18G	\$24.05
24	24G	27.95
30	30G	35.75
36	36G	48.10
42	42G	61.75
48	48G	75.40

CHELSEA FANS

DELUXE ATTIC FANS



Featuring exclusive, patented "floating" action, these spring-mounted fans can be used for either wall or ceiling mounting. Ball-bearing throughout, with thermal overload protection in motor, and safety cut-off switch. Mounting accessories are provided as standard equipment.

For Wall or Ceiling 115 Volt

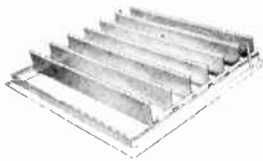
Cat. No.	Size	HP	CFM	Each
HVB24	24"	1/3	5100	\$ 81.00
HVB24T	24"	1/3	5100/3400	102.00
HVB30	30"	1/3	7400	93.00
HVB30T	30"	1/3	7400/4900	114.00
HVB36	36"	1/3	9750	105.00
HVB36T	36"	1/3	9750/6500	126.00
HVB42	42"	1/3	12000	129.00
HVB42T	42"	1/3	12000/8100	150.00
HVB42H	42"	1/2	14500	150.00
HVB42HT	42"	1/2	14500/9420	177.00
HVB48	48"	1/2	17500	183.00
HVB48T	48"	1/2	17500/11400	204.00
HVB48H*	48"	3/4	19400	204.00

G1E1 Time Switch \$ 8.40
 S3A1 Temperature Switch 18.00
 T indicates two speed.
 *Wall mounting only.

WALL LOUVERS AND CEILING SHUTTERS



WALL LOUVERS



CEILING SHUTTERS

Non-twisting single-vane construction. Open and close automatically with fan. Aluminum wall louver has felt edged vanes with wide shroud "water shed" construction.

WALL LOUVERS

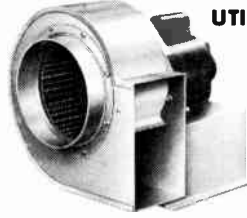
Cat. No.	Size	Each
LWL10	10"	\$ 9.60
LWL12	12"	10.20
LWL16	16"	12.00
LWL18	18"	14.40
LWL20	20"	16.80
LWL24	24"	18.00
LWL30	30"	25.20
LWL36	36"	33.00
LWL42	42"	39.00
LWL48	48"	48.00

CEILING SHUTTERS

Cat. No.	Size	Each
S24	24"	\$18.00
S30	30"	21.60
S36	36"	27.00
S36S	30" x 42"	30.00
S42	42"	36.00
S42S	36" x 48"	39.00
S48	48"	45.00

Motor Conversion Kits:
 LXP power kit converts LWL Louver from automatic to motor operation. List Price Each \$24.00
 SXP power converts S shutter from automatic to motor operation. List Price Each \$24.00

UTILITY BLOWERS



Direct drive with forward curve wheels, this welded steel blower is designed for practically every type industrial, institutional, and commercial ventilating system.

Cat. No.	HP	RPM	CFM	115/230 V. Each
UDF5XB▲	1/15	1550	317	\$48.00*†
UDF6BC	1/6	1150	444	75.00*
UDF6BA	1/6	1750	619	60.00*
UDF8BC	1/6	1150	754	84.00*
UDF8FA	1/2	1750	1100	93.00*
UDF9DC	1/3	1140	1123	126.00*
UDF10HC	3/4	1140	1754	225.00

▲CW rotation only.
 *Single voltage.
 †115 volt only.
 Belt drive blowers are available from stock. Sizes 8"-18". Larger sizes available through 30".
 *Single voltage.

AIR CIRCULATORS



- PTB Pedestal Mounting
- CTB Ceiling Mounting
- WTB Wall Mounting
- COTB Counter Mounting

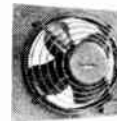
115 Volt

Smartly designed, efficient, quiet-operating. Attractive bright-plated and enamel finishes. Pedestal types feature adjustable column height, positive locking tube couplers.

Cat. No.	Fan RPM	CFM	Each
PTB24CC	1100/800	5400/3900	\$99.00
CTB24CC	1100/800	5400/3900	79.80
COTB24CC	1100/800	5400/3900	90.00
WTB24CC	1100/800	5400/3900	85.80
PTB30CC	1100/800	7200/5200	108.00
CTB30CC	1100/800	7200/5200	88.80
WTB30CC	1100/800	7200/5200	94.80
P24*	1140	5250	177.00

*Explosion-proof. Other models available.

DIRECT DRIVE EXHAUST AND VENTILATING FANS



115 Volt

TYPE WF — ALL-PURPOSE WALL FANS

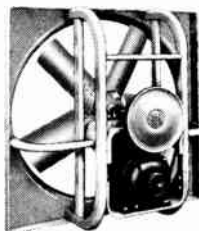
Cat. No.	HP	Fan RPM	CFM	Each
WF10XB	1/15	1550/1050	700/475	\$39.60
WF12XB	1/15	1550/1050	1050/678	40.80
WF16AC	1/6	1050/850	1700/1375	45.00
WF18AC	1/6	1050/850	2200/1780	51.00

TYPE PW — HEAVY-DUTY COMMERCIAL WALL FANS

Cat. No.	HP	Fan RPM	CFM	Each
PW12AC	1/6	1150/850	1065/790	\$69.00
PW12AA	1/6	1750/1150	1625/1065	66.00
PW16BC	1/6	1150/850	2025/1500	75.00
PW16CA	1/4	1750/1150	3080/2025	78.00
PW20CC	1/4	1150/850	3540/2620	93.00
PW24CC	1/4	1150/850	4840/3580	99.00

CHELSEA FANS

TYPE IND — BELT DRIVE INDUSTRIAL FANS



Heavy-duty belt drive. Ball bearing throughout and equipped with non-overloading propeller. Fan panel is one-piece, deep-drawn with true venturi orifice. Fan and "U" channel back supports are welded for additional rigidity and support.

Cat. No.	HP	Fan RPM	CFM	Each
IND24FA	1/2	983	6360	\$123.00
IND30FA	1/2	650	8570	150.00
IND30HA	3/4	742	9800	162.00
IND36FA	1/2	476	10900	174.00
IND36HA	3/4	545	12450	186.00
IND42HA	3/4	420	15300	216.00
IND42JA	1	462	16800	234.00
IND48JA	1	371	20200	267.00
IND48KA	1 1/2	425	23100	291.00

Additional sizes available to 72".

TYPE WDD — DIRECT DRIVE CENTRIFUGAL WALL EXHAUSTERS



Aluminum housings and wheels. Vibration dampeners. Non-overloading. Ball bearing motors. Non-restrictive design. Bird-screen included.

115 Volt

Cat. No.	HP	Fan RPM	CFM 0"SP	Each
WDD8YB	1/25	1550	475	\$ 66.00
WDD10ZC	1/12	1140	795	102.00
WDD10CA	1/4	1725	1190	117.00
WDD12ZD	1/12	860	880	126.00
WDD12AC	1/8	1140	1166	114.00
WDD12DA	1/8	1725	1765	126.00
WDD14CC	1/4	1140	1870	180.00
WDD16FC	1/2	1140	2780	222.00

Accessories available — Dampers & Grilles.

DIRECT DRIVE UP BLAST ROOF VENTILATORS

For discharging large volumes of air where dirt, dust, smoke, and steam are present. Weather-proof Venturi orifice. Friction-free dampers. Cast aluminum propeller. Ball-bearing motor. Non-overloading.



Cat. No.	HP	Fan RPM	CFM 0"SP	3-Phase* Explosion-Proof	
				T.E.	
RUD20FA	1/2	1750	5100	\$231.00	\$270.00
RUD24FA	1/2	1750	6300	240.00	279.00
RUD24JA	1	1750	7300	282.00	318.00
RUD30HC	3/4	1150	9400	354.00	390.00
RUD30JC	1	1150	10500	366.00	402.00
RUD30MA	2	1750	13100	390.00	465.00
RUD30OA	3	1750	15000	408.00	483.00
RUD36JC	1	1150	13800	414.00	450.00
RUD36KC	1 1/2	1150	15750	429.00	465.00
RUD36OA	3	1750	19800	465.00	540.00
RUD42MC	2	1150	21000	570.00	585.00
RUD42OC	3	1150	24850	579.00	654.00
RUD42PC	5	1150	27500	666.00	765.00
RUD48OD	3	850	27600	792.00	867.00
RUD48PC	5	1150	34000	792.00	888.00
RUD60PE	5	690	42400	1230.00	1332.00
RUD60PD	5	850	43950	1086.00	1176.00
RUD60QD	7 1/2	850	52800	1170.00	1260.00

*Single-phase motors also available.

SPUN ALUMINUM EXHAUSTERS

Non-overloading. Overlapped orifice design for maximum efficiency and low tip speeds. Ball bearing motors. Vibration dampener mountings. Birdscreen included.



Direct Drive — 115 Volt

Cat. No.	HP	Fan RPM	CFM 0"SP	Each
RDD8YB	1/25	1550	334	\$ 60.60
RDD8YB	1/25	1550	475	60.00
RDD9XB	1/10	1550	567	72.00
RDD10ZC	1/12	1140	795	99.00
RDD10CA	1/4	1725	1190	99.00
RDD12ZD	1/12	860	880	120.00
RDD12AC	1/8	1140	1166	105.00
RDD12DA	1/8	1725	1765	111.00
RDD13BC	1/8	1140	1490	135.00
RDD14CC	1/4	1140	1870	147.00
RDD16FC	1/2	1140	2780	183.00

Belt Drive — 115/230 Volt — Single Phase

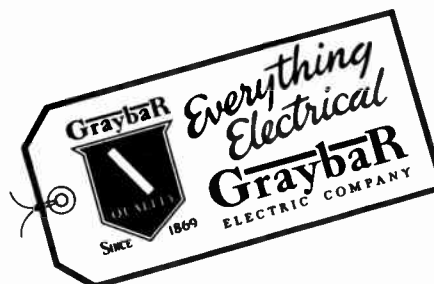
Cat. No.	HP	Fan RPM	CFM 0"SP	Each
RDB16CA	1/4	862	2160	\$180.00
RDB16FA	1/2	1089	2730	198.00
RDB20CA	1/4	672	2920	213.00
RDB20FA	1/2	845	3675	231.00
RDB24DA	1/8	518	4160	255.00
RDB24HA	3/4	679	5460	297.00
RDB30HA	3/4	516	6920	390.00
RDB30KA*	1 1/2	650	8720	426.00
RDB36HA	3/4	372	8970	480.00
RDB36KA*	1 1/2	469	11300	516.00

Additional sizes available to 44".

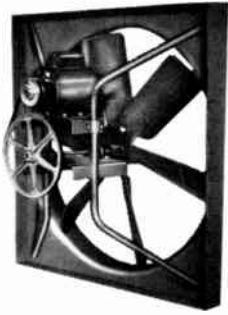
*3-Phase

Accessories available: Auto Damper, Motorized Damper, Curb Gaskets.

GRAYBAR is the world's largest independent distributor. As such, we can offer you or your electrical contractor the widest selection of quality electrical products, coordinated deliveries and unbiased recommendations.



ILG VENTILATING FANS



**TYPE PF
PROPELLER
EXHAUST
FANS**

New Type PF belted propeller fans — low in price, but having quality features for high performance and long life such as: pre-drilled steel panel, unique angle braced construction, 6 bladed wheel, close coupled motor and drive, permanently lubricated motor and shaft bearings, baked enamel finish, full venturi and NEMA motors used. Optional guard and discharge shutters are available on request.

Motor and drive shipped in separate box.

Size	CFM at Various S.P.		Shpg. Wt. Lbs.	RPM	Motor HP	Each	
	0"	1/4"				1 Phase	3 Phase
PF24"	5,487	4,244	90	691	1/3	\$ 91.69	\$ 92.75
	6,282	5,151	95	791	1/2	94.34	97.52
	7,195	6,120	105	906	3/4	110.77	105.47
PF30"	7,448	5,494	110	476	1/3	100.70	101.76
	8,528	6,123	115	545	1/2	102.82	126.63
	9,748	8,015	120	623	3/4	118.72	113.42
PF36"	9,476	6,070	135	351	1/3	111.30	112.36
	10,828	7,889	140	401	1/2	113.95	117.66
	12,393	9,737	140	459	3/4	130.38	125.08
PF42"	13,634	11,102	145	505	1	130.91	134.09
	13,313	9,710	170	309	1/2	139.39	142.57
	15,252	11,310	180	354	3/4	156.35	151.05
PF48"	16,803	13,075	180	390	1	156.88	165.36
	19,214	15,620	185	446	1 1/2	185.50	181.26
	16,230	7,266	255	251	1/2	169.07	172.25
PF54"†	18,624	13,306	265	288	3/4	184.97	179.67
	20,498	15,453	270	317	1	195.57	198.75
	23,408	18,624	275	362	1 1/2	221.54	217.30
PF60"†	25,802	19,146	310	399	2	---	223.13
	21,472	13,992	325	237	3/4	253.87	248.04
	23,647	16,913	330	261	1	254.40	257.58
PF60"†	27,089	20,990	340	299	1 1/2	304.75	300.51
	29,807	23,925	365	329	2	---	304.75
	34,156	28,433	385	377	3	---	315.35
PF60"†	26,838	17,636	385	213	1	290.44	293.62
	30,618	19,683	415	243	1 1/2	352.98	348.21
	33,768	26,050	420	268	2	---	355.10
	38,682	31,498	455	307	3	---	360.40

**230/460 or 208V 3 Phase Motors

†PF54 and 60 sold with motor and drive mounted on fan.

**CENTRIFUGAL TYPE
CEILING VENTILATORS**

115 or 230V, 1 Phase, 60 Cycles

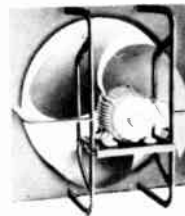


Model	60	T60	80
Cat. No. (115V.)	4494	4498	3840
Cat. No. (230V.)	4495	4499	---
CFM @ 0" SP	59	116	100
HP	1/100	1/50	1/80
Wheel Dia.	3"	3"	3 1/8"
Shpg. Wt. Lbs.	17	20	25
Sones, 5 ft.	4.4	5.9	3.2
Each 115V	\$47.70	\$68.90	\$40.28
Each 230V	49.82	71.02	---

Ilg's line of extra quiet Centrifugal ceiling ventilators features the new size 80. In adding size 80 to the present line of 60 and T60, there are 3 sizes to select from. Ceiling Centrifugal fans are the most simple and satisfactory means of ventilating conference rooms, individual offices, washrooms and other small areas. With Ilg's Centrifugal ceiling design, you can easily install the unit in new or old ceilings. To prevent maintenance and maintain longer, quiet life, all motors are permanently-lubricated, all moving parts are balanced, and vibration isolated from the housing. The aluminum grille and flange blend into any color scheme, and are easy to keep clean. Optional features include roof or wall caps for use with sheet metal ducts.

ILG VENTILATING FANS

TYPE PDX EXPLOSION-PROOF FANS



Constant Speed, 60 Cycle

Type PDX combines the features of Type PD fans with explosion-proof motors, which are suitable for all Class 1, Group D hazardous applications. Square steel panel on Type PDX has pre-drilled mounting holes, and is designed to fit recessed or surface mountings. Quiet running.

Size	RPM	HP	Shpg. Wt. Lbs.	1 Ph.		3 Ph.	
				115/230V.	220/440V.		
123	1725	1/8	30	\$ 84.80	---	---	---
163	1140	1/8	50	118.72	---	---	---
163	1725	1/8	60	140.45	---	\$130.91	---
183	1140	1/8	75	128.26	---	156.88	---
183	1725	1/2	80	148.93	---	145.22	---
213	1140	1/4	95	165.89	---	167.48	---
213	1725	3/4	100	169.60	---	173.31	---
243	855	1/2	160	---	---	224.72	---
243	1140	3/4	230	---	---	258.64	---
303	855	3/4	280	---	---	334.43	---
303	1140	2	420	---	---	376.30	---
305	1140	2	415	---	---	386.37	---
363	855	3	460	---	---	527.88	---
369	1140	3	500	---	---	446.79	---

**10" PACKAGE ILGETTE (WINDOW TYPE)
PULL CHAIN OPERATED DOOR**

115V., 60 Cycles, 1 Phase



Cat. No.	1599
RPM	1550
CFM	500
Watts	40
Panel Dims.	11 1/4" x 11 1/4"
Shpg. Wt. Lbs.	40
Sones 5 Ft.	2.9
Each	\$47.70

**TYPE U-PDE PROPELLER
DIRECT DRIVE**

5060 to 33,300 CFM

New design Type U-PDE roof ventilators feature high speed, high air capacities for exhaust ventilation on industrial applications where noise levels are not critical. Unit has sturdily constructed heavy gauge weatherproof steel housing and frame with rust resistant aluminum finish.

Ilg's totally enclosed ball bearing motors direct-connected to aluminum airfoil bladed wheel gives maximum performance with minimum operating cost and maintenance. 1-phase motors are thermal overload protected.

Size	RPM	HP	Shpg. Wt. Lbs.	CFM at various static pressures				Each 3 Phase
				0"	1/4"	3/8"	1/2"	
U-PDE245	1140	1/3	290	5060	4030	---	---	\$299.45
U-PDE249	855	1/2	315	5640	4820	---	---	339.73
U-PDE249	1140	1	315	7520	6910	5580	---	355.10
U-PDE305	1140	1	335	10550	9520	---	---	412.34
U-PDE309	1140	2 1/2	400	13770	13000	11300	10250	478.59
U-PDE365	855	3/4	435	12000	10000	---	---	567.10
U-PDE369	855	1 3/4	480	16400	15200	---	---	580.88
U-PDE369	1140	4	495	21600	20800	---	---	652.43
U-PDE425	685	1 1/4	585	17900	15000	---	---	603.67
U-PDE425	855	2 1/2	600	22400	20100	14900	8200	672.57
U-PDE429	855	5	720	28200	26600	22200	19600	803.48
U-PDE485	570	1 1/2	705	22200	18100	---	---	752.60
U-PDE485	685	2 1/2	705	26700	23400	10900	---	779.10
U-PDE485	855	5	735	33300	30700	25000	21700	820.97

NOTE: Two-Speed 3-Phase, and Explosion Proof 1- and 3-Phase motors, and 550 Volt motors are available.

ILG VENTILATING FANS

TYPE PD PROPELLER FANS



Type PD
capacities from 288 to 37,550 cfm. Features light beige baked enamel finish.

Ilg type PD Square Panel propeller fans are designed to handle large volumes of air with low power output, they will operate against static pressures up to 1". Square steel panel has pre-drilled mounting holes, to provide quick and permanent installation for recess and surface mountings. Two types of fan wheels. Whisper-quiet "Q" wheel for normal pressures. Airfoil design 5 or 9 bladed wheels for operating against higher static pressures. Ca-

Constant Speed, 1 and 3 Phase, 60 Cycle

Size	RPM	HP	CFM 0"	Shpg. Wt. Lbs.	Each	
					1 Ph.**	3 Ph.**
PD63†	3000	1/80	288	8	\$24.38	\$ ----
PD83†	1550	1/80	407	9	26.50	----
PD103†	1550	1/80	570	10	31.27	----
PD123	1550	1/20	1048	19	42.40	----
PD123	1725	1/8	1150	30	78.44	----
PD163	1140	1/8	1700	45	83.21	----
PD163	1725	1/3	2640	65	110.24	121.90
PD183	1140	1/8	2600	70	112.89	140.45
PD183	1725	1/2	3670	75	134.62	134.62
PD213	1140	1/8	3600	75	133.56	157.94
PD213	1725	5/8	4800	100	152.11	163.77
PD243	855	1/4	4700	130	178.08	166.42
PD243	1140	3/4	6200	150	225.78	228.96
PD303	685	3/8	7800	260	286.73	248.97
PD303	855	3/4	9400	280	363.05	323.30
PD303	1140	2	12000	330	402.80	335.49
PD309	1140	2	14000	340	402.80	345.56
PD309	1750	7 1/2	21490	330	-----	572.93
PD363	570	5/8	11000	400	412.34	360.93
PD369-5	855	2	16130	335	-----	469.05
PD369-5	1140	5	21500	400	-----	675.75
PD423	490	7/8	15500	530	530.53	479.65
PD425	685	1 1/4	20250	370	-----	505.09
PD425	855	2 1/2	25200	380	-----	618.51
PD429	855	5 1/2	32650	450	-----	674.69
PD483	570	3	27100	680	-----	725.57
PD483	490	1 1/2	23300	580	643.42	560.21
PD485	685	2 1/2	30100	500	-----	640.77
PD485	855	5	37550	575	-----	676.81

*115, 208 or 230 volt. **220/440 or 208 volt.

†A three speed switch for size 63, 83 and 103 fans is available as an accessory at \$16.00 list, as follows: Size 63 at 115 volts, Cat. No. 7306; size 83 at 115 volts, Cat. No. 7302; size 83 at 230 volts, Cat. No. 7303; size 103 at 115 volts, Cat. No. 7306.

Two Speed, 1 Phase, 60 Cycle

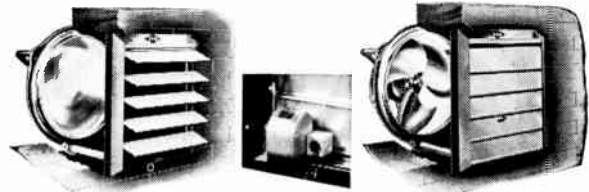
Size	RPM	HP	CFM 0"	Shpg. Wt. Lbs.	115, 208 and 230V. Each	
					115, 208	230V.
PD163	1140	1/8	1700	45	\$91.16	---
	855		1290			
PD163	1725	1/8	2640	65	118.19	---
	1140		1720			
PD183	1140	1/8	2600	70	120.84	---
	855		1910			
PD183	1725	1/2	3670	75	142.57	---
	1140		2550			
PD213	1140	1/8	3600	75	141.51	---
	855		2750			
PD243	855	1/4	4700	130	193.98	---
	570		3220			
PD303	685	3/8	7800	275	294.68	---
	500		5700			
PD363	570	5/8	11000	365	420.29	---
	425		7930			
PD423	490	7/8	15500	460	538.48	---
	340		10790			

Fans are equipped with No. 801 remote flush-mounted switch having high, low and off positions.

SPECIAL CONSTRUCTION FEATURES AVAILABLE

Vertical Operation — Standard Ilg propeller fans in sizes 63 and larger are suitable for vertical up operation (motor below fan, blowing up). For vertical down operation, a standard discharge guard is also recommended. On sizes 163 and larger PD models are suitable for vertical down operation.

**PROPELLER FAN ACCESSORIES
GRAVITY AND MOTOR
OPERATED SHUTTERS**



Fan Running Motor-Operated Kit Fan Not Running

Heavy duty Ilg shutters are designed to protect the fan and the building interior against snow and rain. All shutter sizes can be furnished with motor operated kit for electric operation. Mounting holes are pre-drilled for ease of assembly.

Fan Size	Shpg. Wt. Lbs.	Motor Operated			
		Gravity	115V.	208/ 230V.	440V. 550V.
63-83	5	\$10.07	\$30.74	\$33.39	\$47.70 \$ ----
103	6	11.66	32.33	34.98	42.29 ----
123	7	12.19	32.86	35.51	49.82 ----
163	10	13.78	34.45	37.10	51.41 ----
183	20	18.02	38.69	41.34	55.65 ----
213	25	24.91	45.58	48.23	62.54 ----
243	30	29.68	50.35	53.00	67.31 ----
303-309	40	45.05	65.72	68.37	82.68 ----
363-369	90	64.13	107.59	110.24	125.61 ----
423-425-9	105	93.28	163.74	139.39	154.76 ----
483-485	120	124.02	167.48	170.13	185.50 ----

FAN GUARDS FOR MOTOR SIDE



Guard Size	For PD Fans	Shpg. Wt. Lbs.	Cat. No.	Each
63 thru 243	63 thru 243			
303	303	50	7473	\$39.22
309	309	50	7474	29.68
363	363	60	7475	69.43
369	369	60	7476	31.80
423	423	65	7477	38.16
425	425	65	7477	38.16
429	429	65	7477	38.16
483	483	70	7478	47.70
485	485	70	7478	47.70

Warning Guards are standard. Optional safety guards available.

Type PDX

Guard Size	For PDX Fans	Shpg. Wt. Lbs.	Cat. No.	Each
123	123	---	Incl.	---
163	163	20	H8197	\$22.79
183	183	16	H8198	26.50
213	213	25	H8199	30.21
243	243	30	H8200	39.22
303	303	50	7473	39.22
363	363	60	7476	31.80

ILG VENTILATING FANS
HIGH-SPEED INDUSTRIAL COOLING FANS



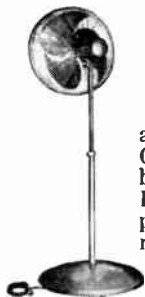
Ideal for industrial cooling where noise is not a factor — bringing refreshing relief to shop "hot spots" and break up pockets of stale air in confined places. Two types—Pedestal Model 245 for floor mountings and Model 245U for ceiling and wall installations. Five bladed propeller is protected by rugged steel venturi. Safety type guard meets all codes. New tilting head can be easily adjusted to change direction of air flow.
C.F.M.* — 13040 R.P.M. — 1140.

Model 245

220-440 Volts — 3-Phase — 60 Cycles

Model No.	H.P.	Shpg. Wt. Lbs.	220 Volt		440 Volt	
			Cat. No.	Each	Cat. No.	Each
245	1	190	1565	\$355.63	1566	\$355.63
245U	1	120	1567†	271.89	1567†	271.89

*Rating at 3 feet including induced air.
†Dual Voltage 220/440V.



ILGJET

Patented Ilg type Q non-ferrous fan wheel assures extra quiet, efficient air circulation. Capacitor type motor has double sealed ball bearings. Safety type guard meets all codes. Pedestal models with large steel base for complete stability for floor use — or models for mounting on wall or ceiling.

115 Volt, 1 Phase, 60 Cycle

Cat. No.	Model	RPM	CFM**	Watts	Shpg. Wt. Lbs.	Each
1551†	1275	1140	7380	330	214	\$222.60
		800	5180	214		
1553†	1275U	1140	7380	330	100	199.28
		800	5180	214		

†Two Speed.
**Rating at 3 feet including induced air.



AIR CURTAIN FANS
ILGJET — MODEL UA-205

For wall or ceiling mounting with full 360° directional adjustment. Ideal for use as a "fly fan." Three speed control. 115 volt, 60 cycle, 1 phase motor with permanently lubricated ball-bearings.

Cat. No.	Model	RPM	CFM**	Watts	Shpg. Wt. Lbs.	Each
1554	UA-205	1000	3920	150	40	\$62.01

Deflector Cat. No. 7435 at \$33.00 list.
**Rating at 3 feet including induced air.

MODEL BC150C FLY FANS

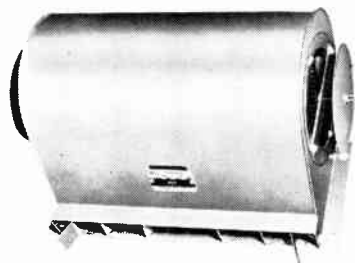
New heavy duty fly fan BC150C meets U.S.D.A. suggested velocity specifications of 1600 FPM 3 ft. from floor. Not for personnel traffic use. Also available with smaller capacity motor for refrigeration door application where B15 is not suitable, Type BC150R.



Model BC150 — Constant Speed 3 Phase

Model No.	HP	Shpg. Wt. Lbs.	Cat. No.		Each
			208V.	230/460V.	
BC150C	2	225	BO959	BO961	\$323.83
BC150R	1	250	BO989	BO992	314.29

ILG CENTRIFUGAL AIR CURTAIN FANS



Keeps flies out — customers in
The B15FF (Air Curtain Fan) spreads an invisible curtain of air that is gentle enough not to bother people, but powerful enough to repel flying insects.

Available with 1-speed or 2-speed motors, standard or optional recessed housing. The direct connected Ilg permanently lubricated, split-capacitor motor — eliminates maintenance.

Keep warm air out — cold air in

Now you can lower the operating cost of your cooling plant, by stopping the loss of your cooled air, and preventing warm air from entering through open doors. The B15FF Air Curtain Fan with refrigerator door kit, is the simplest and most economical way to accomplish this. The curtain of air creates a thermal barrier, preventing temperature and humidity loss.

Model B-15FF Fly Fan — Constant Speed

RPM	CFM	Sones 5 Ft.	115/230V, 1 Phase		220/440V, 3 Phase	
			Cat. No. Each	Each	Cat. No. Each	Each
1725	2530	14.2	4440	\$121.37	4443	\$126.14
1140	1620	8.5				

Model B-15FF Fly Fan — Two Speed

RPM	CFM	Sones 5 Ft.	115V, 1 Phase		230V, 1 Phase	
			Cat. No. Each	Each	Cat. No. Each	Each
1725	2530	14.2	8787	129.85	4441	140.98
1140	1620	8.5				

Model B-15FF With Cabinet — Constant Speed

RPM	CFM	Sones 5 Ft.	115/230V, 1 Phase		220/440V, 3 Phase	
			Cat. No. Each	Each	Cat. No. Each	Each
1725	2050	14.5	4447	152.64	4445	157.41
1400	1640	8.9				

Model B-15FF With Cabinet — Two Speed

RPM	CFM	Sones 5 Ft.	115V, 1 Phase		230V, 1 Phase	
			Cat. No. Each	Each	Cat. No. Each	Each
1725	2050	14.5	8828	160.59	4444	171.72
1400	1640	8.9				

Model B-15FF Refrigeration Door Kit

Cat. No.	Description	Each
7199	For Use with 4440 or 4443 only	\$4.77

TRUCK DOOR THERMAL BARRIER



New development for use on truck loading doors for shipping or receiving areas, prevents cold air entry into building — avoiding health and comfort problems or merchandising spoilage.

Model for use with gas or steam lines for inside or outside mounting. Use one unit up to 14 ft. mounting height to cover 4 ft. door width.

Outside Unit — 3 Phase — 1 1/2 H.P. Motor

Description	Cat. No.	Each	Shpg. Wt. Lbs.
Gas heater with modulating valve	B1051	\$777.51	350
With steam coil	B0899	663.03	450
Inside Unit — 3 Phase — 1 1/2 H.P. Motor			
Gas heater with modulating valve	B1082	751.01	425
With steam coil	B0930	636.53	500

ILG ELECTRIC UNIT HEATERS

1½ KW to 36 KW



Sizes 1½ to 36 KW are listed by the Underwriters' Laboratories, Inc.

Controls shown below are those needed in addition to a Line Switch or other disconnecting means.

Hanger brackets are standard on all sizes.

Capacities	Heater Rating		HEATERS		Control Amps.	Automatic Control (Includes Thermostat)	
	Volts	Phase	Cat. No.	List Price		Cat. No.	List Price
1½ KW 5118 BTU 180 CFM 1550 RPM	120	1	4600	\$124.00	22	7317	\$21.00
	208	1	4601	131.00	22	7361	24.00
	240	1	4602	131.00	22	7361	24.00
	277	1	4951	177.00	18	7361	24.00
2 KW 6824 BTU 180 CFM 1550 RPM	120	1	4603	126.00	22	7317	21.00
	208	1	4604	135.00	22	7361	24.00
	240	1	4605	135.00	22	7361	24.00
	277	1	4952	181.00	18	7361	24.00
3 KW 10236 BTU 250 CFM 1550 RPM	120	1	4606	135.00	30	7319	65.00
	208	1	4607	143.00	22	7361	24.00
	240	1	4608	143.00	22	7361	24.00
	277	1	4953	189.00	18	7361	24.00
	208	3	4607	143.00	30	7321	68.00
	240	3	4608	143.00	30	7321	68.00
4 KW 13648 BTU 250 CFM 1550 RPM	120	1	4611	142.00	50	7325	95.00
	208	1	4612	150.00	22	7361	24.00
	240	1	4613	150.00	22	7361	24.00
	277	1	4954	196.00	18	7361	24.00
	208	3	4612	150.00	30	7321	68.00
	240	3	4613	150.00	30	7321	68.00
5 KW 17060 BTU 320 CFM 1550 RPM	120	1	4616	189.00	30	7318	65.00
	240	1	4617	189.00	22	7361	24.00
	277	1	4955	225.00	18	7361	24.00
	208	3	4616	189.00	30	7321	68.00
	240	3	4617	189.00	30	7321	68.00
	480	3	4618	223.00	30	7323	68.00
6 KW 20472 BTU 380 CFM 1550 RPM	208	1	4620	200.00	30	7318	65.00
	240	1	4621	200.00	30	7318	65.00
	277	1	4956	255.00	30	7362	65.00
	208	3	4620	200.00	30	7321	68.00
	240	3	4621	200.00	30	7321	68.00
	480	3	4622	252.00	30	7323	68.00
7½ KW 25590 BTU 380 CFM 1550 RPM	208	1	4624	229.00	50	7327	95.00
	240	1	4625	229.00	50	7327	95.00
	277	1	4957	273.00	30	7362	65.00
	208	3	4624	229.00	30	7321	68.00
	240	3	4625	229.00	30	7321	68.00
	480	3	4626	270.00	30	7323	68.00
	600	3	4627	272.00	30	7323	68.00

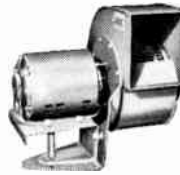
NOTE: For extra heating capacities up to 122,832 BTU we offer a larger model in sizes 9KW to 36KW. Complete selection data and prices on application. Request Catalog No. DB5-100.

- Catalog #7317 Control is a one pole thermostat and catalog #7361 is a two pole thermostat — each has ½° differential. All other controls use a one pole thermostat with contactor and have a 1½° differential.
- Price of control, manual or automatic types except catalog number 7361, includes contactor and three position pilot switch. If pilot switch is not required, deduct \$14.00 from list price and state on order "control less pilot switch."
- All controls, except 1½ and 2 KW for 120-volt operation, break all lines to the heater.
- For 480 volts and up, heater control requires a 120-volt control circuit. If this circuit is not available, the following transformers can be furnished: For 7322 and 7323 use 50 V.A., 480/120 V. No. 2308-2500A at \$23.00 or 600/120 V. No. 2308-2501A at \$24.00 list.
- Where motor voltage differs from heater voltage by more than the nominal rated voltages (208-230 or 240-220), a separate motor circuit transformer is furnished with the heater.
- All heaters have motor leads accessible for the customer to connect to a separate circuit for summer operation when desired.

The Above Items Are Subject to 47% Discount

ILG CENTRIFUGAL FANS

TYPE B BLOWERS



Type B Util-A-Set Centrifugal Fans are suitable for all types of blow-in or exhaust duty where low pressure, small volume quiet operation are required. Particularly adapted for applications in offices, toilets, projection booths, telephone booths, kitchens, etc., where air is moved through ducts.

Standard construction for sizes B9 to B15 will handle 190°F. air; sizes B18 and 21, up to 250°F. air.

Size	RPM	HP	Shpg. Wt. Lbs.	Single Phase 60 Cycle 115-V.	
				Cat. No.	Each
B9	1140	1/80	20	4000†	\$51.94
B9	1650	1/25	20	4006†	49.29
B9	1725	1/12	30	4012	62.54
B9	3400	¼	35	4022	68.37
B12	1140	1/12	50	4032	71.02
B12	1725	¼	60	4042	68.90
B15	855	1/12	75	4052	101.23
B15	1140	¼	80	4062	96.99
B15	1725	¾	95	4072*	122.43
B18	855	1/7	135	4080*	157.94
B18	1140	¾	140	4088*	163.77
B17	1725	1½	170	4096**	239.56
B21	855	¾	190	4106*	191.86
B21	1140	¾	190	4114*	240.62

NOTE: All motors are standard open type except the B15 at 855 rpm, single phase which is totally enclosed. All sizes listed above unless otherwise designated are equipped with split-phase ball bearing type motors.

*Dual voltage permanent split-capacitor type motor with ball bearings, 115/230 volt. **Single voltage permanent split-capacitor type motor with ball bearings.

†Equipped with shaded pole, sleeve bearing type motors.

Size	RPM	Wheel Dia.	Static Pressure in Inches			
			1/8 CFM	3/8 CFM	1/2 CFM	3/4 CFM
B9	1140	4¾	136	-----	-----	-----
B9	1650	4¾	223	170	-----	-----
B9	1725	4¾	235	186	144	-----
B9	3400	4¾	486	470	460	441
B12	1140	6¾	371	236	-----	-----
B12	1725	6¾	611	535	495	411
B15	855	7¾	570	300	-----	-----
B15	1140	7¾	820	670	570	450
B15	1725	7¾	-----	1210	1160	1110
B18	855	9¾	-----	760	620	-----
B18	1140	9¾	-----	1220	1140	1050
B18	1725	9¾	-----	-----	2010	1960
B21	855	10¾	1540	1280	1190	1040
B21	1140	10¾	-----	1920	1820	1730

OTHER ILG PRODUCTS



Propeller Roof Ventilators Direct Connected and Belted



Centrifugal Roof Ventilators Direct Connected and Belted



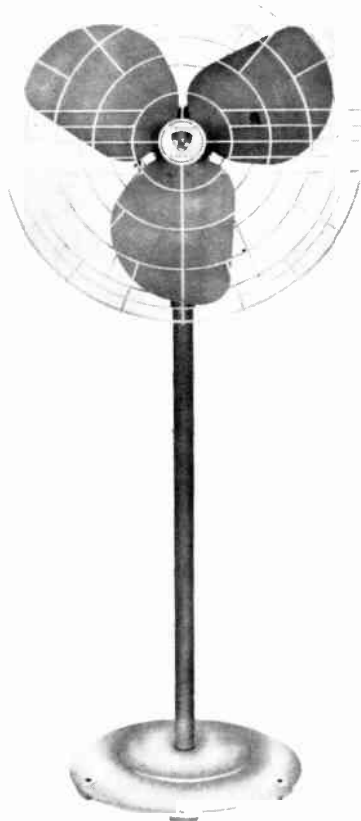
Tubaxial Duct Fans Direct Connected and Belted

EMERSON ELECTRIC AIR CIRCULATORS AND ACCESSORIES

FOR CEILING-WALL-FLOOR AND COUNTER MOUNTING

5 Year Factory to User Guarantee—Listed by Underwriters' Laboratories, Inc.

Efficient, quiet, economical to operate. Adjustable through a 98° range. Fully enclosed, 2-speed streamlined motors, prelubricated for approximately 6000 hours operation. Designed for large area circulation—retail stores, shops, restaurants, hotels, taverns, and for industrial plants, recreation areas, churches, etc. Ruggedly built for continuous operation at either high or low speed. Four types of mountings—floor column, counter or display case column, ceiling, and wall. Both floor and counter types have rubber covered extension cords and soft rubber plugs. Special, decorative, 2-piece, heavy gauge spiral safety guard with Catalog Nos. CSG241 and CSG301 Air Circulators.



SPECIFICATIONS

Motor: Capacitor type, full enclosed, streamlined design. Male section of receptacle located in motor (for connecting female section of cord furnished with floor-column and counter-column mountings.)

Shaft: Solid steel shaft 5/8" diameter.

Bearings: Ball bearings, grease packed.

Lubrication: As shipped from the factory, fans will give several normal seasons of service before relubrication is necessary. (Approximately 6000 hours).

Switch: Levolver switch in back cover of motor.

Blades: All types—3 blades of formed heavy gauge aluminum.

Guard: Two-piece ornamental guard of heavy gauge wire, spot welded. Both the 24" and 30" fans are available with close spaced spiral safety guard.

Adjustment: Mounting yoke is insulated with rubber. Can be tilted from 8° below horizontal to 90° above horizontal when used with column mountings, or vice versa in ceiling mounting.

Finish: Finished in baked metalescent-bronze wrinkle enamel. Bright plated guard. Blades finished in bronze lacquer.



MOUNTING ACCESSORIES

Ceiling Mounting Fittings: Consist of motor socket, round malleable flange hanger tapped for 1" pipe with four lag screws and ceiling canopy. Canopy is finished in metalescent bronze lacquer (no hanger pipe nor cord) female section of cord connector furnished.

Floor Column Mounting: Adjustable from minimum 4'11" to maximum 8'4", from floor to center of blades. Base drilled for attachment to floor. 20' of rubber covered cord and plug. Base packed separately. Base, lower column and coupling finished in baked metalescent bronze wrinkled enamel, seamless steel tube finished in polished chromium plate.

Counter Column Mounting: Center of blades 1'8" from the bottom of the base. Base drilled for attachment to counter and equipped with protective felt. 12' of rubber covered cord and plug. Base finished in baked metalescent bronze wrinkled enamel, motor socket and column finished in polished chromium plate.

Wall Bracket Mounting: Furnished complete with stud, motor socket and lag screws for attachment to wood construction. Extends 14" from wall and provides swivel adjustment to either side. Bracket is finished in baked metalescent bronze enamel. No cord furnished. Female section of cord connector furnished.

Cat. No.	Size In.	Volts	Current	Speeds	RPM	Watts	*Air Delivery CFM	*Air Delivery CFM
C241	24	115	60 Cy.	2	1120	220	5000	6500
					770	130	3450	4400
CSG241 #	24	115	60 Cy.	2	1120	220	4300	5200
					770	130	3150	3400
C301	30	115	60 Cy.	2	1025	340	7000	8400
					525	130	3600	4300
CSG301 #	30	115	60 Cy.	2	1025	340	6000	7250
					525	130	3000	3700

Mounting Accessories

Cat. No.	Description
321	Ceiling Mounting Fittings (no hanger pipe)
121	Adjustable Floor Column Mounting, Min. 4'11", Max. 8'4", floor to center of fan
221	Counter Column Mounting, 1'8", base to center of fan
421	Wall Bracket Mounting, 1'2" extension from wall

*CFM—Cubic feet of air per minute, reading taken (Standard Test Method) 2' from fan.

#With Spiral safety guard.

Prices on Application

EMERSON ELECTRIC FANS

CEILING FANS

5 Year Guarantee



Standard in America since the early nineties for quietness, efficiency, dependability and low cost. Slow speed fans gently move large volumes of air without annoying drafts.

Current-saving capacitor motors with lifetime lubricated ball bearings and seasoned wood blades make these fans perfect for use on porches, covered patios, stores or wherever cool breezes are welcome and insects are not.

Ideal for installation on low ceilings — fans are designed for mounting with a minimum of only 12" from ceiling to bottom of blades on the 36" fan and only 13" on the 52" fan.

Furnished complete with ceiling canopy, ceiling hook, insulated hanger eye. Controlled with 2-speed pull switch mounted in the fan. 2-speed wall switch is available as an accessory where fans are to be installed for wall switch control. Fans are tapped for 1/2" hanger pipe (pipe not furnished). Hook with adapter to fit 3/8" fixture stud can be supplied.

Attractively finished in beige baked enamel over motor and trimmings. Wood blades finished to match.

For 120 Volts 60 Cycles

Blade Size Inches	Style	R.P.M.	Watts	CFM Air Delivery	Cat. No.
36	Non-rev.	330-235	80-50	3630	CF362
52	Non-rev.	215-160	140-90	7000	CF522

High Speed Standard Test Method. Fans will operate satisfactorily on voltage 10% above or below rated voltage. Performance data subject to 10% plus or minus. All data subject to change without notice. Listed by Underwriters' Laboratories, Inc. Will not interfere with radio or TV reception.

Cat. No.	Description	Wt. Lbs.	Each
CF362	36" 2-Speed, Non-reversible	21	\$48.19
CF522	52" 2-Speed, Non-reversible	26	69.02

AUTOMATIC SHUTTERS



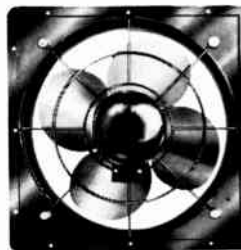
To automatically close the opening when the exhaust fan is located on an outside wall and not in operation, this automatic shutter will be found very satisfactory.

The louvers are made of aluminum, and each shutter is individually hung on corrosion-proof brass pins to assure continuous service without attention.

**For Direct-Drive Exhaust Fans
For Horizontal Discharge**

Cat. No.	For Fan Size In.	Wt. Lbs. Packed	Each
12WS-1	12	8	\$ 8.22
16WS-1	16	9	10.62
18WS-1	18	10	12.29

**DIRECT DRIVE EXHAUST FANS
12", 16", 18" PANEL TYPE**



Fully enclosed, lifetime lubricated, ball-bearing, self-cooling motors with built-in automatic thermal overload protector. Balanced blades are quiet. May be installed to discharge horizontally, vertically or at any angle. Dust-proof and moisture resistant motor and blades, suitable for farm installation. Heavy duty guard. 5-year guarantee.

**Ball Bearing Exhaust Fans
For 115 Volts, 60 Cy.**

Cat. No.	Fan Size In.	High Speed				Each
		H.P.	Watts	Amps	RPM	
XB121	12	1/20	100	1.5	1140	\$34.89
XB161*	16	1/15	150	1.6	1050	41.74
XB181*	18	1/12	165	1.7	1040	47.22

Fans will operate satisfactorily on voltage 10% above or below rated voltage. Performance data subject to vary without notice.

CFM — Cubic feet of air per minute.

*Two-speed fans furnished with 2-speed rotary switch. Listed by Underwriters' Laboratories, Inc.

EMERSON-PRYNE EXHAUST FANS

VENT-A-BATH EXHAUST BLOWER



Low cost vent-a-bath exhaust blower with 6" Blo-Fan Impeller. Utilizes slip strap mounting. HVI certified—60 CFM. Mounts in either ceiling or 4" wall. Grille is closed type louver in anodized aluminum. Automatic damper—3" duct.
 No. 221 Exhaust Faneach **\$11.28**

CEILING VERTICAL DISCHARGE



Ceiling mounted vertical discharge fan, complete with shutter assembly as integral part of fan. Utilizes easy slip strap mounting. Adapts to 7" round duct. Phosphatized housing, anodized aluminum grille. HVI certified. 200 CFM.
 No. 256 Exhaust Faneach **\$12.85**

SIDE WALL FAN



Square design for easier installation, greater efficiency. Tru air-foil styrene blade provides maximum CFM with minimum noise. Anodized aluminum grille conceals interior mechanical parts. HVI certified. 250 CFM.
 No. 252 DeLuxe Ceiling Faneach **\$15.78**

ROOF MOUNTED BLOWER



Powerful two-speed fan generates 700/350 CFM—suitable for heavy duty hoods—Bar-B-Quees. Two speed wall selector switch and pilot light. Unit can be wall mounted with VA-10 accessory. Low silhouette—can be painted to match roof color. 9 3/4" high, 16 3/8" x 22 5/8". Adapts to 8" round duct. HVI certified. 1100/700 RPM.
 No. RMV-1 Roof Mounted Blowereach **\$60.52**

THOMAS INDUSTRIES

Bathroom Heaters/Ventilators/Light Combinations

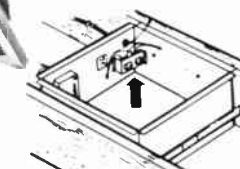


T-300 Heater-fan-light. Two separate motors for fan-forced heater and ventilating fan. Use heater, fan or light alone, or in any combination. 1500W heater delivers 5118 BTUs. 60 CFM fan. Uses 3" duct. Built-in damper. Alba-Lite lens in aluminum trim. Housing 11 1/2" square, 8" deep. **30.25**



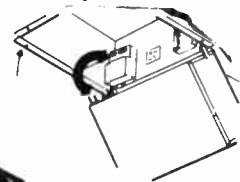
T-301 Heater-light combination. Same as T-300, without ventilating fan. **23.70**

T-302 Ventilating fan-light combination. Same as T-300, without heater. **20.95**



Installation

Exclusive plug-in feature simplifies installation. Housing supplied with adjustable bar hangers for 16" center joists.

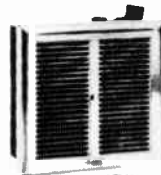


Power unit hooks on hinge pins; swings up into housing and plugs in automatically.

Ventilating Fans for Wall and Ceiling



T-320 60 CFM Ceiling Fan, for bathrooms up to 55 sq. ft. Built-in damper. Stainless steel grill 7 7/8" square. Pre-wired housing 6 1/2" x 9". Uses 6" round duct. **8.31**



T-321 50 CFM Ceiling or Wall Fan, for bathrooms up to 45 sq. ft. Pre-wired 8 3/4" x 9" x 4" housing. Anodized aluminum grill 10 1/4" square. Uses 3" round duct. **9.51**

T-322 60 CFM Blower. Same as T-321. For bathrooms up to 55 sq. ft. **12.15**

T-323 80 CFM Blower. Same as T-321. For bathrooms up to 75 sq. ft. **13.71**



T-310 Infrared heat lamp. Pre-wired, recessed steel housing. 8" diameter, 7 1/2" depth. Use 250W R40 infrared lamp. **1.80**



RU-315 Shower light. Aluminum with white bottom glass and water-tight gasket. Box diameter 5 1/2", depth 6 5/8". 1-60W. **4.35**

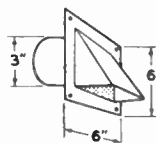


R-316 Pre-wired shower light. Housing 8 1/8" square, 5 3/4" deep. Outlet box extends 4". O.D. drop opal glass. 1-60W. **7.17**

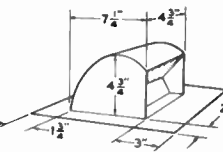
Accessories



T-350 Switch for T-300, above. Three independent circuits permit any combination of heater-fan-light operations. Stainless steel wall plate. **4.80**



T-360 Wall cap. Adapts to 3" round duct. Built-in bird screen. Baked enamel finish. **1.75**



T-361 Ventilation roof jack. Adapts to 3" or 4" round duct. Built-in damper and bird screen. Enamel finish. **2.30**

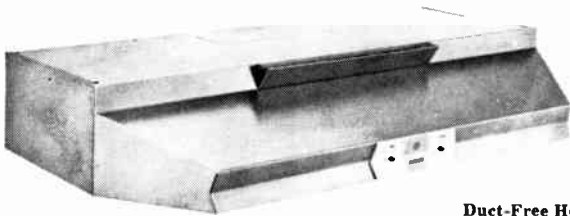
THOMAS INDUSTRIES
Range Hoods and Accessories



Three-Speed Dual Blower Hoods

King-size air delivery. Easy to reach controls for recessed light and 3-speed twin squirrel cage blowers. NO SEAMS: Front corner seams are Heliarc-welded. Two aluminum filters snap out for easy cleaning. Built-in spring-loaded damper prevents back-drafts. Discharges horizontally or vertically through 3 1/4" x 10" duct. Height 8 1/4". Extends 18 1/2" 120V, 60-cycle, U.L. listed. 325 CFM. 1-100W lamp.

WIDTH 30"	T-1030 W	44.35	White finish.
	T-1030 S	60.15	Stainless steel.
	T-1030 C	44.35	Shaded coppertone finish.
WIDTH 36"	T-1036 W	45.65	White finish.
	T-1036 S	63.50	Stainless steel.
	T-1036 C	45.65	Shaded coppertone finish.
WIDTH 42"	T-1042 W	17.00	White finish.
	T-1042 S	66.55	Stainless steel.
	T-1042 C	47.00	Shaded coppertone finish.



Duct-Free Hoods

For kitchens where duct work is impractical. Large activated charcoal filter absorbs smoke and cooking odors. Washable aluminum filter traps grease. Easy to reach controls for recessed light and blower. Height 6". Extends 18 1/2" 120V, 60-cycle, U.L. listed. 1-100W lamp.

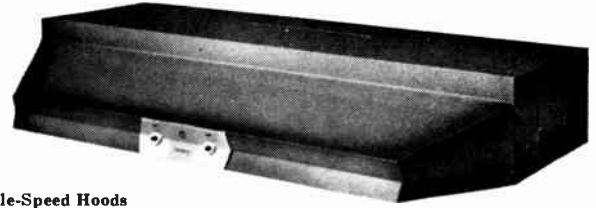
WIDTH 30"	T-2530 W	26.60	White finish.
	T-2530 S	34.50	Stainless steel.
	T-2530 C	26.60	Shaded coppertone finish.
WIDTH 36"	T-2536 W	27.95	White finish.
	T-2536 S	35.85	Stainless steel.
	T-2536 C	27.95	Shaded coppertone finish.



Two-Speed Hoods

Two-speed fan delivers air at high pressure even with long duct runs. Easy to reach controls. Aluminum filter snaps out for easy cleaning. Discharges horizontally or vertically through 3 1/4" x 10" duct. Built-in damper. Height 6". Extends 18 1/2" 120V, 60-cycle, U.L. listed. 200 CFM. 1-100W lamp.

WIDTH 30"	T-1530 W	24.15	White finish.
	T-1530 S	32.15	Stainless steel.
	T-1530 C	24.15	Shaded coppertone finish.
WIDTH 36"	T-1536 W	24.80	White finish.
	T-1536 S	33.80	Stainless steel.
	T-1536 C	24.80	Shaded coppertone finish.



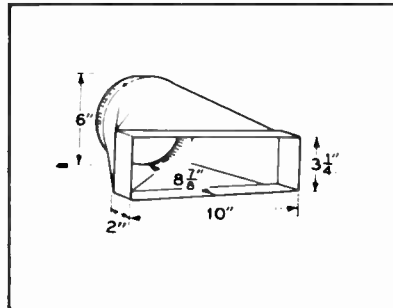
Single-Speed Hoods

Efficient performance at an economical price. All of the same features as the two-speed hood except with different control panel and single-speed blower. Height 6". Extends 18 1/2". 160 CFM. 1-100W lamp.

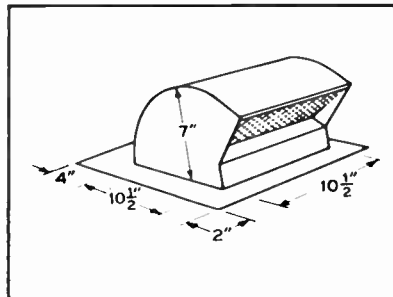
WIDTH 30"	T-2030 W	21.90	White finish.
	T-2030 S	30.20	Stainless steel.
	T-2030 C	21.90	Shaded coppertone finish.
WIDTH 36"	T-2036 W	22.55	White finish.
	T-2036 S	31.55	Stainless steel.
	T-2036 C	22.55	Shaded coppertone finish.

Splash Plates

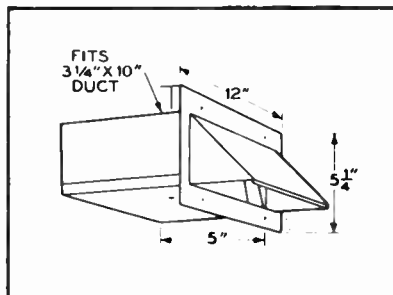
Thomas splash plates protect your walls from cooking splatters and add an extra touch to kitchen decor at the same time. Installation is a snap. Just hook plate on the bottom of hood. Height 22". Widths of 30", 36", 42". Available in stainless steel and in finishes of white or coppertone.



T-364
Transition piece, 3 1/4" x 10" rectangle to fit 6" duct. 2.05



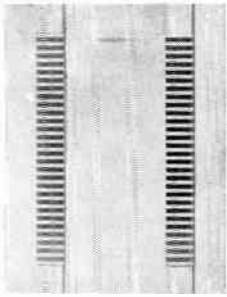
T-362
Roof jack. Includes backdraft damper and bird screen. Opening 10 1/2" square. 4.75



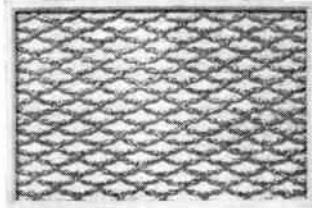
T-363
Wall cap. Use with 3 1/4" x 10" duct. Includes backdraft damper. 2.95

T-370
Replacement charcoal odor filter for Thomas duct-free hoods. 11 3/4" x 12 1/4". 1.10

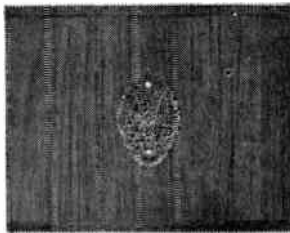
THOMAS INDUSTRIES
Door Chimes and Accessories



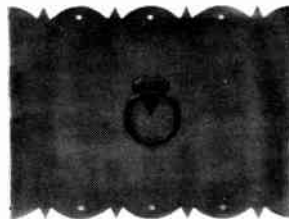
T-412 Recessed chime fits flush against wall. Can be painted to match wall. Soft sandalwood finish. Harmonious two note chime. Height 8". Width 6". 3.90



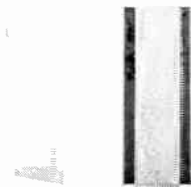
T-403 Traditional beauty of hammered gold grill. Elegant ivory finish. Harmonious two note chime. Height 6 1/4". Width 9 1/4". 6.50
T-404 Same chime as T-403, with walnut finish. 6.50



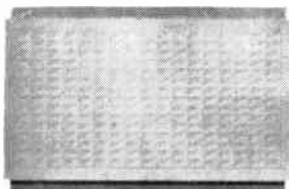
T-405 For traditional decor. Walnut wood grain finish with highlights of burnished antique brass filigree. Ornate center design in burnished antique brass. Harmonious two note chime. Height 6 3/4". Width 8 1/2". 7.77



T-420 In the Early American spirit. Antique brass with scalloped top and bottom, accented by black center ornament. Harmonious two note chime. Height 6 3/4". Width 8 1/2". 7.12
T-421 Same chime as T-420, with antique copper finish. 7.12



T-400 Compact chime especially suited for small kitchen, foyer or hallway. Ivory finish. Harmonious two note chime. Height 4 1/2". Width 7 1/4". 2.57



T-401 Transitional chime with classic simplicity. Soft sandalwood finish with accents of gold. Harmonious two note chime. Height 5 1/2". Width 8 1/2". 3.22

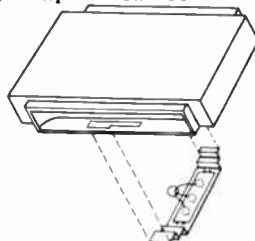


T-422 Unique suede blue finish with highlights of black nickel trim brings a touch of elegance to any decor. Delicate black nickel center medallion. Harmonious two note chime. Height 6 3/4". Width 8 1/2". 7.77

T-423 Same chime with suede gold finish. Burnished antique brass trim and center medallion. 7.77

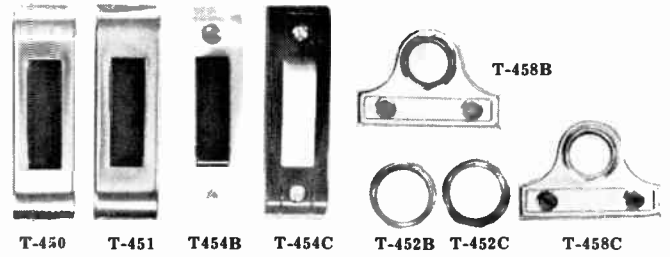
T-424 Same chime with suede grey finish. Black nickel trim and center medallion. 7.77

Easy Snap on Feature

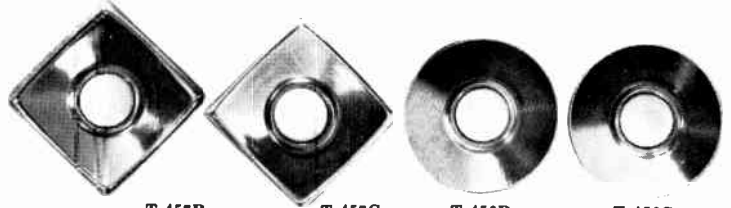


Installation is easy, simply snap chime in place . . . Use this quick assembly method on all chimes except models T-400 and T-412.

Pushbuttons

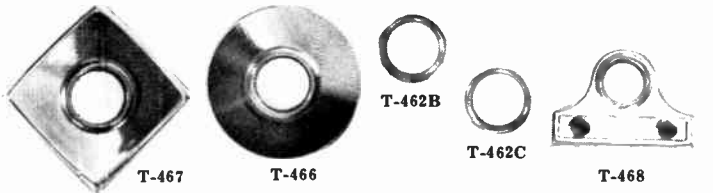


T-450 **T-451** **T-454B** **T-454C** **T-452B** **T-452C** **T-458B** **T-458C**



T-457B **T-457C** **T-456B** **T-456C**

Lighted



T-467 **T-466** **T-462B** **T-462C** **T-468**

Vertical Bar Easy operation. Slim shape for narrow door trim.

- T-450** Brown with ivory button. .27
- T-451** Ivory with black button. .27
- T-454B** Polished brass with black button. .42
- T-454C** Satin aluminum with black button. .42

Pushbutton with Name Plate Slot. Smooth operation. Available with illuminated pushbutton.

- T-458B** Polished brass with ivory button. .88
- T-458C** Chrome with ivory button. .88
- T-468** Polished brass with ivory button. Illuminated pushbutton. 1.37

Square Pushbutton Smooth operation. Concealed mounting. Available with illuminated pushbutton.

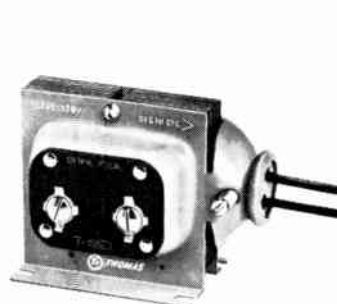
T-457B Polished brass with ivory button. .81

- T-457C** Chrome with ivory button. .81
- T-467** Polished brass with ivory button. Illuminated pushbutton. 1.27

Flush Pushbutton. Most popular style. Mounts in 3/8-hole. Available with illuminated pushbutton.

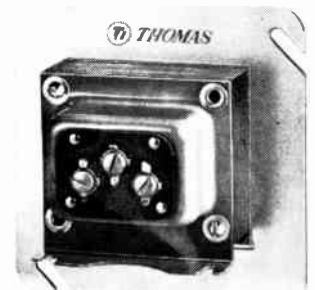
- T-452B** Polished brass with ivory button. .33
- T-452C** Chrome with ivory button. .33
- T-456B** Polished brass with ivory button. .81
- T-456C** Chrome with ivory button. .81
- T-462B** Polished brass with ivory button. Illuminated pushbutton. .81
- T-462C** Chrome with ivory button. Illuminated pushbutton. .81
- T-466** Polished brass with ivory button. Illuminated pushbutton. 1.27

Transformers



T-490 Easily installed 10-volt-5-watt transformer. Use with T-400, 410 and 412. Light grey finish. 1.79

T-491 Easily installed 16-volt-10-watt transformer. Use with all chimes except T-400 and 412. Light grey finish. 2.18



T-492 Easily installed general purpose tri-volt transformer with a wide range for any application. Available with three ratings—24-volt-30-watt, 16V-30W and 8V-20W. Light grey finish. Use for multi-chime installations and extra long runs. 3.30

NUTONE EXHAUST FANS

AUTOMATIC and PULL CHAIN WALL FANS
8" and 10" Models
PULL CHAIN WALL FANS

1-piece, non-breakable electronically balanced blades. Plug-in motor. Snap-in bracket for quick assembly. 8" fans fit 9 1/2" dia. wall opening; 10" fit 11 1/2". For brick or wood. Outside panel has Weather-Seal. Highest air delivery, at lowest noise-level. Baked Enamel housings. Self-lubricating Motors.

AUTOMATIC WALL FANS

Flutter-proof shutter closes tight when not in use. Operates from toggle type or 3-speed Wall Switch. 8" Fans fit 9 1/2" dia. wall opening; 10" fit 11 1/2". For wood or brick; sleeves telescope to fit thickness. Pre-wired for easy installation. "Plug-In" Motor. Choice of Silver Anodized or Baked Enamel Grilles.

Pull-Chain Models

Cat. No.	Bld. Sz.	Grille Dia. and Finish	H.V.I. Certified Air Del. CFM	Rm. Rating Sq. Ft.	Each
8000	8	11" White Enamel	250	125	\$19.00
8010	8	11" Silver Anod.	250	125	19.67
8010-AL	8	11" Silver Anod. (Alum. Exterior Parts)	250	125	21.00
8110	10	13 1/2" Silver Anod.	500	250	25.31

Automatic Models

8060	8	11" White Enamel	160	80	\$19.00
8070	8	11" Silver Anod.	160	80	19.67
8070-AL	8	11" Silver Anod. (Alum. Exterior Parts)	160	80	21.00
8170	10	13 1/2" Silver Anod.	275	135	25.31

Model 8141 Room-to-Room Ventilating Wall Fan

Moves warm air from one room to another. Moves cool air from one room to a warm room in air-conditioned homes. 180 CFM. Pull-chain operated; mounts between studs. For walls 2 3/4" to 5 3/8" thick. Fits 9 1/4" sq. opening. White Enamel Grilles.

No. 8141\$15.00 each

EXTERIOR MOUNTED HEAVY-DUTY FANS

RF-1 Roof Fan — WF-1 Wall Fan

For installations requiring large movements of air or as Central Blower to ventilate more than 1 area. Quiet direct-drive motor & housing install outside. Weather-resistant aluminum for minimum maintenance. Economical installation. Uses standard 8" round duct. Can be used with V-50 and V-55 Hoods or with VS-51 Switch plus VG-54 & VG-56 Grille-Damper Assemblies.

Cat. No.	Description	Duct Size Inches	Cert. Air Del CFM	Each
RF-1	Roof Fan	8	550	\$66.64
WF-1	Wall Fan	8	550	59.97

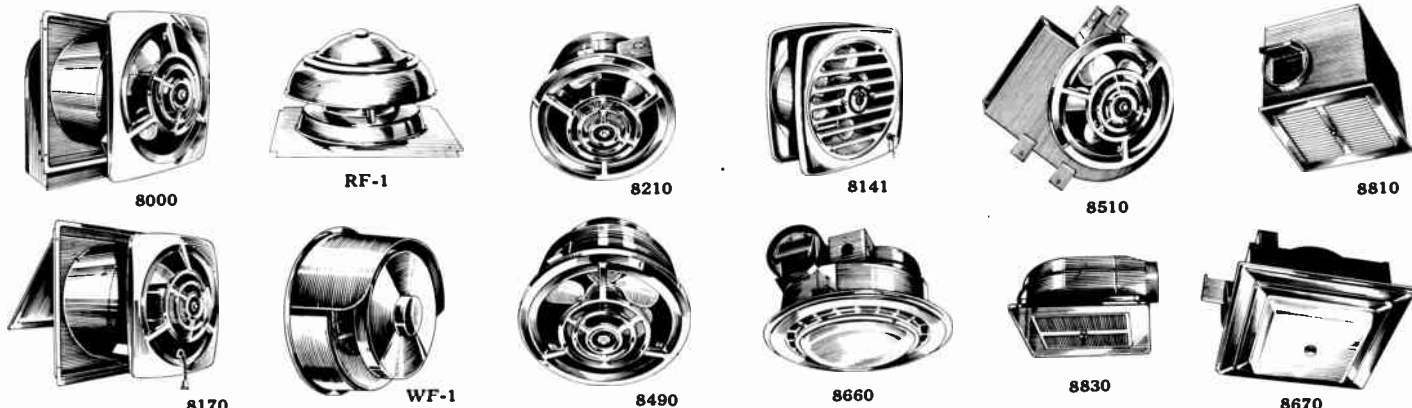
MODEL 8810 BATHROOM FAN

Installs in ceiling. Discharges through 4" dia. duct. Has adjustable bracket . . . no blocking between joists. Convenient handle for "snap-in" installation. Removable flange for smaller ceiling opening. Built-in back draft damper; moisture-proof motor. Housing cutout: 8 1/2" x 6 7/8". Silver Anodized Grille is 8 3/8" x 10 3/8".

MODEL 8830 BATHROOM FAN

Fits 2" x 4" ceiling or wall. Discharges through 3" dia. duct. For bathrooms where closed doors require fan with high static pull. Louver grille permits free flow of air yet conceals inside. Housing cutout: 7 1/4" x 8 7/8". Mounting bracket welded to housing, mounts to 16" OC or 24" OC joists or studding. Moisture-proof plug-in Motor.

Cat. No.	Grille	Duct Dia. In.	H.V.I. Certified Air Del. CFM	Rm. Rating Sq. Ft.	Each
8810	Silver Anod.	4	90	85	\$17.97
8830	Silver Anod.	3	70	65	16.64



CEILING OR INSIDE-WALL FANS

Install in ceiling or 2" x 4" wall. Use 3 1/4" x 10" duct. 1-Piece non-breakable electronically balanced blades. Adjustable plaster ring hides rough edges of plaster. Three-point suspension bracket for ease of mounting. Model No. 8510 has weld-on tabs to fit 16" OC joists. Model No. 8310 has Hanger-Bars. Plug-in receptacles. Built-in backdraft dampers.

VERTICAL DISCHARGE CEILING FANS
Model 8200 Series

Transition type housing for 7" round duct. Fits 9 1/8" dia. opening. Motor cushioned on rubber. Hanger-Bars included. No Reducer needed.

Model 8490

Electronically balanced one-piece Fan Blades. Reducer with Built-In Damper fits 8" dia. duct. Fits 11" dia. opening. No. 854 Filter (extra).

Cat. No.	Bld. Sz.	Grille Dia. and Finish	H.V.I. Certified Air Del. CFM	Rm. Rating Sq. Ft.	Each
8310	8	11" White Enam.	180	90	\$19.17
8510	10	13 1/2" Silver Anod.	300	150	25.31
8200	7	11" Silver Anod.	225	125	15.84
8210	7	11" Silver Anod.	225	110	16.51
8220	8	11" Silver Anod.	160	80	14.47
8490	10	13 1/2" Silver Anod.	250	125	22.51

MODEL 8670 BATHROOM FAN AND LIGHT

Amistat styling; square, beveled reflectors. Motor is spring-mounted . . . for ultra-quiet operation. Double grilles, slanting surfaces channel air to concealed intake-ports. Translucent lens 8 3/8" sq., 1 1/2" deep. Uses two 60 watt bulbs. Anodized grille (13 1/2" sq.) and Reflectors. Reflector Assembly adjustable for ceilings up to 1 1/4" thick. Prewired plug-in Power Unit. Plug-in prewired Reflector-Lens Assembly. Can be wired so fan and light operate at the same time or separately. Built-in back-draft damper. Uses 4" diameter duct.

MODEL 8660 BATHROOM FAN AND LIGHT

Exhausts air without causing chilly drafts. Round convex lens for better lighting. Has hinged lens for easy replacement of 100 watt bulb. Plug-in motor is spring-mounted for quiet operation. Exhausts through 4" dia. duct, through wall or roof. Installs between 2" x 6" joists with 16" to 24" extension hanger-bars. Can be wired so fan and light operate at the same time, or separately.

Cat. No.	Grille	Duct Dia. In.	H.V.I. Certified Air Del. CFM	Rm. Rating Sq. Ft.	Each
8670	Silver Anod.	4	90	85	\$27.17
8660	Silver Anod.	4	90	85	25.84

NUTONE ELECTRIC HEATERS

HEAT-A-VENTLITE MODEL 9096

Infra-red radiant heat, ventilation, light. Use all together or heat with exhaust, or exhaust with light or either alone. Automatic louver prevents back-drafts. Ultra quiet spring-mounted motor. Has automatic reset thermal protection! Includes pre-wired quiet switches, pilot light and plate. Can be connected to line-type single-pole thermostat. Housing is 10½" wide, 14" long, 7" deep. 120 Volts A.C., 5118 B.T.U. H.V.I. Room Rating: 75 Sq. Ft. (Bath). Other, except kitchen: 100 Square Feet.

HEAT-A-LITE MODEL 9015

Heat plus light, together or separately. Cooling system for safe internal temperature. Wires to wall switch, or to thermostat. Housing 10½" x 14" x 6½" deep. 120 volts AC, 5118 BTU. Autom. Reset Thermal Protection!

Features Common to Models 9096 and 9015

Extends only 1½" from ceiling. Thermal protected. No overheating. Connect to standard (60°C.) house wire. "Plug-In" B-Unit for fast installation. Hanger bars included. Anodized Grille 12" x 16". Use 100 Watt short-neck bulb.

Cat. No.	Watts	B.T.U.	Each
9096	1500	5118	\$38.64
9015	1500	5118	27.97

RADIANT HEATER MODEL 9200

Built into ceiling. Exclusive safety cooling system. No overheating. Has enclosed armored heating element. Silver Anodized reflector grille 16¼" dia. Housing 13½" dia. x 7½" deep. Four adjustable Mounting Brackets. Thermal protected to prevent overheating.

RADIANT HEATER MODEL 9285

Surface-mounted ceiling heater extends 5½" from ceiling. Enclosed armored heating element. Silver Anodized reflector 13" dia., ceiling plate 7" dia. Mounts like a standard lighting fixture!

RADIANT CEILING HEATERS

SURFACE-MOUNTED MODEL 9290

Supplies Infra-Red Heat evenly all the way to floor. Pulls air up through center; disperses it around outer edge of Grille. Square perforated Grille for maximum radiation, better diffusion of heat. Extends only 3½" from ceiling. Armored Heating Element. Automatic reset Thermal Protection. Quiet Motor with permanent type lubricant. Mounts to 3" or 4" outlet-box.

Cat. No.	Watts	Each	Cat. No.	Watts	Each
9200	1000	\$18.64	9290	1250	\$18.64
9285	1000	13.31	9292	1500	19.97



9096



9090N



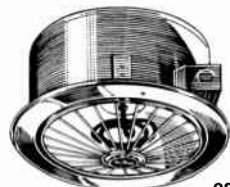
9151



9372



9290



9200



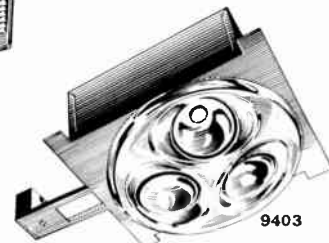
9285



9452



9400



9403

HEAT-A-VENTLITE - MODELS 9090N, 9110N

Ceiling Heater, circulating fan, exhaust fan and light. Silver Anodized Grille, 16" dia. Housing 13¼" dia. x 7½" deep. Extends 4¼" from ceiling. Uses 100 W. bulb. H.V.I. Room Rating: 75 sq. ft. (Bath); other, except kitchen: 100 sq. ft. Automatic reset thermal protection!

Cat. No.	Watts	B.T.U.	Each
9090N	1475	5033	\$45.67
9110N	1800	6142	49.00

CEILING HEAT-A-VENT MODEL 9151

Heat plus ventilation together or independently. Anodized Multi-Ray reflector. Grille 14" Sq., extends only 2¼" from ceiling. Unit may connect to a line-type single pole thermostat. Uses 60°C. house wire. Discharges through 4" dia. duct. Housing 11½" Sq., 6" d. H.V.I. Room Rating: 75 Sq. Ft. (Bath). 5118 BTU's. Has Automatic Reset Thermal Protection!

Cat. No.	Watts	B.T.U.	Each
9151	1500	5118	\$35.00

FAN-FORCED WALL HEATERS

Instant, ultra-quiet fan forced warm air. Ideal for new homes, apartments, remodeling and motels. Has automatic Reset Thermal Protection! Connect to standard 60°C. house wire. No 9372 has "on-off" switch. No. 9376 has thermostat. Anodized Grille 10" x 14". Housing: 8½" x 12½" x 4" deep. 120 Volts, 4265 BTU's.

Cat. No.	Control	Watts	B.T.U.	Each
9372	Manual Switch	1250	4265	\$15.97
9376	Thermostat	1250	4265	18.17

2-BULB HEAT-A-VENT

Heats and ventilates separately or together. Uses 250 watt R-40 Infra-Red Heat Lamps, (not included) rated 5000 hours. Pre-wired for control of both lamps individually to together. Ideal for new homes, apartments and motels. Exhausts through 4" round duct (will pass over 2" x 4" joists.) Housing 14" x 13" x 7½". Has pre-wired junction-box. 70 CFM.

Cat. No.	Watts	Volts	B.T.U.	Each
9452	500	120	1706	\$25.97

3-BULB HEAT-A-LAMP

Completely silent. No moving parts. For apartments, motels and for new homes. Uses 250 watt R-40 Infra-Red heat lamps (not included) rated 5000 hours. Pre-wired for individual control of 1 or 2 or all 3 lamps together. Has pre-wired junction-box. Housing is 25¼" x 14¼" x 6¾" deep. Mounts easily between 2" x 6" joists, 16" on center.

Cat. No.	Watts	Volts	B.T.U.	Each
9403	750	120	2259	\$17.84

2-BULB HEAT-A-LAMP

Uses two 250 w. R-40 Infra-Red Heat Lamps (not included) rated 5000 hours. Pre-wired for control of both lamps individually or together. Completely silent. No moving parts. Installs parallel or at right angles to joists. Adjustable hanger bars for joists to 24" OC. Mounting brackets for 0" to 3.4" plaster thickness. Has attached prewired junction-box. Housing 14" x 7½" x 7½".

Cat. No.	Watts	Volts	B.T.U.	Each
9400	500	120	1706	\$12.64

NUTONE HOOD-FANS

V-30 SERIES

Select-A-Matic Hood Fans

- Select the Power Unit
- Select the Hood Size
- Select the Hood Finish



Scallop Trim (extra)



Underview with Deluxe Twin-Blower



Standard Power Unit Deluxe Power Unit

Most versatile in the Ventilation Industry! Appliance-matched styling, safety-contoured front edge. Super-suction Fans get rid of odors, steam and smoke. Uses 3 1/4" x 10" duct. Vertical or horizontal discharge. Large Grease Filter removes quickly, cleans easily. Twin lights brighten surface.

Deep Hood reaches to front burners. Plug-In Power Units save costly "on-job" time. Thermal-protected enclosed motors. Top or back wiring. Rewired, preassembled. Transition & Damper included. Matching splash-plates for every size and finish. Scallop trim (extra) for Colonial Copper only.

Finish	30" Hoods		36" Hoods		42" Hoods	
	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
White Enamel	V30WE30	\$16.13	V30WE36	\$17.47	V30WE42	\$18.80
Copper Enamel	V30CE30	16.13	V30CE36	17.47	V30CE42	18.80
Turquoise En.	V30TE30	16.13	V30TE36	17.47	V30TE42	18.80
Yellow Enamel	V30YE30	16.13	V30YE36	17.47	V30YE42	18.80
Beige-Tone En.	V30BT30	16.13	V30BT36	17.47	V30BT42	18.80
Avocado Green En.	V30AG30	16.13	V30AG36	17.47	V30AG42	18.80
Colonial Copper En.	V30CC30	16.13	V30CC36	17.47	V30CC42	18.80
Silver Anodized	V30SA30	25.31	V30SA36	26.64	V30SA42	27.97
Copper Anodized	V30CA30	25.31	V30CA36	26.64	V30CA42	27.97
Stainless Steel	V30SS30	32.33	V30SS36	35.67	V30SS42	39.00

V-30 Series Power Units, H.V.I. Certified (Include Fan, Light Assembly, Dials)

Size	Cat. No.	Each
Deluxe	3060	\$36.33
Standard	3080	25.00
Deluxe Twin-Blower ...	3090	39.67

Scallop Trim Strips (Colonial Copper Enamel Only)

Size In.	Cat. No.	Each
30	VT-3CC30	\$4.00
36	VT-3CC36	4.33
42	VT-3CC42	4.67

NUTONE V-34 SERIES NON-DUCT HOOD-FANS



Underview

Finish	30" Hoods		36" Hoods		42" Hoods	
	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
White Enamel	V34WE30	\$59.97	V34WE36	\$61.97	V34WE42	\$63.97
Copper Enamel	V34CE30	59.97	V34CE36	61.97	V34CE42	63.97
Turquoise En.	V34TE30	59.97	V34TE36	61.97	V34TE42	63.97
Yellow Enamel	V34YE30	59.97	V34YE36	61.97	V34YE42	63.97
Beige-Tone En.	V34BT30	59.97	V34BT36	61.97	V34BT42	63.97
Avocado Green En.	V34AG30	59.97	V34AG36	61.97	V34AG42	63.97
Colonial Copper En.	V34CC30	59.97	V34CC36	61.97	V34CC42	63.97
Silver Anodized	V34SA30	69.00	V34SA36	71.00	V34SA42	73.00
Copper Anodized	V34CA30	69.00	V34CA36	71.00	V34CA42	73.00
Stainless Steel	V34SS30	77.66	V34SS36	80.33	V34SS42	83.00

ACCESSORIES

Cat. No.	Description	Each
855	Replacement Smoke Filter	\$1.73
856	Replacement Odor Filter	6.64
859	Wall Mounting Bracket	1.40

Scallop Trim Strips (Colonial Copper Enamel Only)

Size In.	Cat. No.	Each
30	VT-3CC30	\$4.00
36	VT-3CC36	4.33
42	VT-3CC42	4.67

NUTONE 6000 SERIES "FOLD-AWAY" HOOD-FANS



Underview with Deluxe Twin-Blower

Matches walls or cabinets! . . . Color unlimited! Choice of 2 Anodized Hood finishes and 8 insert panels. Rotary Controls for light and multiple speed fan. Choice of Standard, or Deluxe Twin-Blower Power Units. Recessed, non-glare lighting illuminates entire range. Super-suction fans whisk away odors, grease, smoke. Rewired "plug-in" Power Units save on installation time. Choice of Horizontal or Vertical discharge. Power Unit installs in Hood . . . uses no cabinet-space!

Hoods have blank area on front, ready for inserting panels of your choice. Combine Hoods with Power Units shown above to make complete Hood-Fans.

Hoods have blank area on front, ready for inserting panels of your choice. Combine Hoods with Power Units shown above to make complete Hood-Fans.

Finish	24"		36"	
	Cat. No.	Each	Cat. No.	Each
Silver Anodized	6005	\$33.31	6025	\$35.97
Copper Anodized	6006	33.31	6026	35.97

Finish	30"		42"	
	Cat. No.	Each	Cat. No.	Each
Silver Anodized	6015	\$34.64	6035	\$37.31
Copper Anodized	6016	34.64	6036	37.31

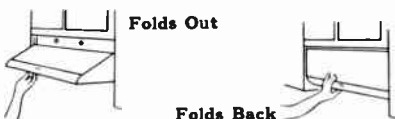
INSERT-PANELS to match or contrast with walls, cabinets, counters, or appliances, available in these finishes for each of the above Hood widths:

- White Enamel
- Turquoise Enamel
- Yellow Enamel
- Copper Anodized Aluminum
- Copper Enamel
- Stainless Steel
- Colonial Copper Enamel
- Silver Anodized Aluminum

Price-Range: From \$2.33 to \$4.67 each

Use Standard or Deluxe Twin-Blower Power Units.

— See V-30 Series Power Units Above. —



Folds Out

Folds Back

NUTONE HOOD-FANS
CONVERTIBLE and
VERTICAL DISCHARGE



V-19 Contemporary



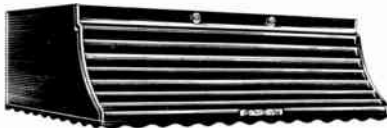
V-11 Traditional



Underview of
V-19

NUTONE HEAVY-DUTY
HOOD-FANS

V-50 and V-55 Series



V-50 Hood



V-55
Twin-Hood

F-500N
Power Unit

NUTONE 7000 SERIES
ROLL-OUT HOOD-FANS

Ducted & Non-Ducted Models
For *High-Oven Ranges

Hood rolls out, becomes a powerful Hood-Fan . . . rolls back, shuts off!

*Do NOT install over a Gas High-Oven that vents through oven TOP.



Non-Duct Model Shown (open)



Ducted Model
(open)



Non-Ducted
(closed)

Convertible
V-19 Series
 Vertical or Horizontal discharge. Uses standard 3 1/4" x 10" Duct. Certified 200 CFM Air Delivery.

Vertical Discharge
V-11 Series
 Discharge Collar built into top. Uses 7" round duct. 225 CFM Certified Air Delivery.

Finish
 Copper Enam.
 White Enam.
 Turquoise En.
 Yellow Enam.
 Col. Copper En.
 Beige-Tone En.
 Avocado Green En.
 Stainless Steel

Outstanding Features of V-19 and V-11 Series

Appliance-Styling in Traditional* or Contemporary†. Complete, with Hood, Fan, Motor, Light, Filter. Large permanent, washable Alum. Mesh Grease Filter. U.L. approved, plug-in motor is Thermal-Protected. *In Colonial Copper only. †Not in Colonial Copper.

V-19 SERIES — Convertible Hood-Fans

30"		36"		42"	
Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
V19CE30	\$37.84	V19CE36	\$39.17	V19CE42	\$40.51
V19WE30	37.84	V19WE36	39.17	V19WE42	40.51
V19TE30	37.84	V19TE36	39.17	V19TE42	40.51
V19YE30	37.84	V19YE36	39.17	V19YE42	40.51
V19CC30	37.84	V19CC36	39.17	V19CC42	40.51
V19BT30	37.84	V19BT36	39.17	V19BT42	40.51
V19AG30	37.84	V19AG36	39.17	V19AG42	40.51
V19SS30	52.51	V19SS36	53.97	V19SS42	55.31

V-11 SERIES — Vertical Discharge Hood-Fans

30"		36"		42"	
Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
V11CE30	\$34.64	V11CE36	\$35.97	V11CE42	\$37.31
V11WE30	34.64	V11WE36	35.97	V11WE42	37.31
V11TE30	34.64	V11TE36	35.97	V11TE42	37.31
V11YE30	34.64	V11YE36	35.97	V11YE42	37.31
V11CC30	34.64	V11CC36	35.97	V11CC42	37.31
V11BT30	34.64	V11BT36	35.97	V11BT42	37.31
V11AG30	34.64	V11AG36	35.97	V11AG42	37.31
V11SS30	49.31	V11SS36	50.64	V11SS42	51.97

V-50 Series

Designed for indoor barbecue, other heavy-duty ventilation.

12" high, 19" deep for best collection capacity in large kitchens, recreation rooms and other areas, where superior ventilation is required.

Use with exterior-mounted roof or wall

fans, or Dual-Blower mounted in Hood. Has built-in back-draft dampers. Uses 8" round duct. Hood is prepared for easy coupling to Power Unit.

V-55 Series Twin Hood-Fan

Same as V-50 except has two "faces" For Peninsula or Island installations. Deep coverage of cooking area: 26 1/2"!

V-50 SERIES — Heavy Duty Hood-Fans

30"		36"		42"	
Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
V50CC30	\$29.31	V50CC36	\$30.64	V50CC42	\$31.97
V50CA30	38.00	V50CA36	40.67	V50CA42	43.33
V50SS30	47.97	V50SS36	51.97	V50SS42	55.97

(Scalloped Trim Strips, Colonial Copper only, \$4.00 to \$4.67 each)

V-55 SERIES — Twin Hood-Fans

36"		42"		48"	
Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
V55CC36	\$36.64	V55CC42	\$39.97	V55CC48	\$43.31
V55CA36	48.64	V55CA42	53.97	V55CA48	59.31
V55SS36	61.97	V55SS42	69.97	V55SS48	77.97

(Scalloped Trim Strips, Colonial Copper only, \$6.67 to \$7.33 each)

Dual-Blower Power Unit, F-500N — \$57.67 each.
 Exterior-Mounted Roof Fan, RF-1 — \$66.64 each.
 Exterior-Mounted Wall Fan, WF-1 — \$59.97 each.

7000 SERIES — Ducted Models

Discharges odors, smoke to outside, vertically or horizontally. Uses standard 3 1/4" x 10" Duct. Grease Filter removes easily and cleans quickly in sudsy water.

7400 SERIES — Non-Duct Models

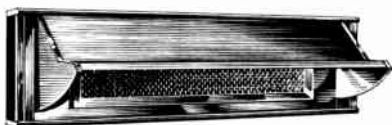
Use wherever Ductwork is not available. Three-Way Filter System gets rid of odors, smoke, steam; returns air fresh and clean to the kitchen. Filters are easily replaceable.

Cat. No.	Size	Description	Each
7015	30"	Ducted, Silver Anodized Aluminum Finish	\$57.00
7415	30"	Non-Duct, Silver Anodized Aluminum Finish	70.33
7035	40"	Ducted, Silver Anodized Aluminum Finish	63.67
7435	40"	Non-Duct, Silver Anodized Aluminum Finish	77.00

ACCESSORIES

Cat. No.	Size	Description	Each
711	30"	Replacement Charcoal Odor Filter for 7415 Hood-Fan	\$ 6.33
713	40"	Replacement Charcoal Odor Filter for 7435 Hood-Fan	7.00
721	30"	Replacement Smoke Filter for 7415 Hood-Fan	1.73
723	40"	Replacement Smoke Filter for 7435 Hood-Fan	2.07
750		Wall Mounting Bracket for 7000 and 7400 Series Hood-Fans	2.67

NUTONE HOOD FANS
NUTONE 3200 SERIES
OVEN HOOD-FANS



- For gas or electric built-in ovens.
- Protects cabinets from heat, grease and smoke which escape from oven.
- Is flush with cabinet when not in use.
- Use Model 3260 Power Unit to make complete Hood-Fan.
- Built-In Damper is included.
- Exhaust fan turns "on" automatically when the Hood swings out. Push Hood back to flush position and fan turns off automatically.
- Hood, Fan and Filter easily removed for quick cleaning.
- Hood + Power Unit = complete Hood-fan.

Finish	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
Stainless Steel	3208	\$12.67	3218	\$12.67	3228	\$12.67
Colonial Copper En.	32089	12.67	32189	12.67	32289	12.67
No. 3260 Power Unit (to make complete Oven Hood-Fan)						\$24.00

NUTONE VENTILATION ACCESSORIES

Cat. No.	Description	Each	Cat. No.	Description	Each
VF-32	Filter Kit. For use with V-30 and 6000 Series Hoods in central ventilating installations. Can be mounted in Hoods with or without 6071 or 6072 Light Kits	\$5.31	841-AL	Roof Cap, same as #841 except made of Aluminum	\$3.67
VS-51	Two-Speed Switch for RF-1 or WF-1 Fans	5.93	845	Roof Cap with weather damper. For duct sizes up to 10" square. Spring operated louver.	5.93
VF-52	Filter Kit. For use with V-50 and V-55 Series. Hoods when exterior mounted Fan (RF-1 or WF-1) is used as the ventilating power unit	4.40	845-AL	Roof Cap, (same as above), made of Aluminum	8.73
VL-53	Light Kit. For installation in V-50 and V-55 Series. Hoods when exterior mounted Fan (RF-1 or WF-1) is used as the ventilating power unit. Use in conjunction or independently of VF-52 Filter Kit	10.13	846	Wall Cap for use with V-50 or V-55 Series Hoods and F-500N Power Unit	5.60
VG-54	Grille-Damper for RF-1 or WF-1 Fans (for Kitchens and Recreation Rooms). Use 8" round duct	7.93	854	Filter for 8170-8190-8490-8510	1.60
VG-56	Grille-Damper for RF-1 or WF-1 Fans (for Bathrooms). Use 3" round duct	3.87	860	3-Speed Switch for all NuTone Fans except 8060-8090, Pull Chain Type, RF-1 and WF-1	4.40
823	Reducer with damper. Use with 8220 to adapt to 8" round duct	1.87	861	3-Speed Switch. For 8060-8090	4.40
824	Transition Elbow with damper. Use with 8220 for 90° turn to 3 1/4" duct size	2.60	862	60-Minute Time Switch for use with all NuTone Fans, except Pull Chain Type	6.13
834	Filter for 8060-8090, 8200-8210, 8220 and 8310	1.47	876	Damper Section 7" long. Use with 3 1/4" x 10" duct	2.67
836-AL	Eave Cap. Weather louver for 3 1/4" x 10" duct with Grille made of Aluminum	4.07	877	Transition — 6" round to 3 1/4" x 10"	2.47
837-AL	Flush Wall Cap. Weather louver for 3 1/4" x 10" duct with Aluminum Grille	4.07	879	Filter for 8700 Twin Blower	2.87
838	Wall Cap. Weather Louver. For 3 1/4" x 10" duct	3.47	884	Transition — 3 1/4" x 10", to 8" round	2.47
838-AL	Wall Cap, (same as above) with Aluminum Outside Hood	3.87	885	Wall Cap with weather louver. For use with 3" or 4" round duct. 3" to 4" round transition included	2.20
841	Roof Cap with weather louver. For ducts to 4" dia.	3.33	885-AL	Wall Cap, (same as above), made of Aluminum	2.80
			886	Transition — 7" round to 3 1/4" x 10"	2.47
			894	Transition Elbow with damper. Use with V-11 and 8200-8210 Fans for 90° turn to 3 1/4" x 10" duct size	2.60
			895	Damper Section. Fits 7" dia. duct	1.40
			897	Transition Elbow with louver. 90°. 4" x 12" to 3 1/4" x 10". For V-30 6000 and 7000 Series Hood-Fans	4.13
			898	Right Reverse Elbow. Use with 3 1/4" x 10" duct	3.87
			899	Left Reverse Elbow. Use with 3 1/4" x 10" duct	3.87

SPLASH-PLATES for
NUTONE HOOD-FANS
 (24" High x Width of Hood)

Finish	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
Beige Tone Enamel	SP17BT24	\$4.00	SP17BT30	\$4.33	SP17BT36	\$4.67	SP17BT42	\$5.00
Copper Enamel	SP17CE24	4.00	SP17CE30	4.33	SP17CE36	4.67	SP17CE42	5.00
White Enamel	SP17WE24	4.00	SP17WE30	4.33	SP17WE36	4.67	SP17WE42	5.00
Turquoise Enamel	SP17TE24	4.00	SP17TE30	4.33	SP17TE36	4.67	SP17TE42	5.00
Yellow Enamel	SP17YE24	4.00	SP17YE30	4.33	SP17YE36	4.67	SP17YE42	5.00
Avocado Green Enamel	SP17AG24	4.00	SP17AG30	4.33	SP17AG36	4.67	SP17AG42	5.00
Colonial Copper Enamel	SP17CC24	4.00	SP17CC30	4.33	SP17CC36	4.67	SP17CC42	5.00
Copper Anodized	SP17CA24	8.33	SP17CA30	9.67	SP17CA36	11.00	SP17CA42	12.33
Silver Anodized	SP17SA24	8.33	SP17SA30	9.67	SP17SA36	11.00	SP17SA42	12.33
Stainless Steel	SP17SS24	11.67	SP17SS30	14.00	SP17SS36	16.33	SP17SS42	18.67

NUTONE BUILT-IN FOOD CENTER

One Concealed Motor Operates 7 Cordless Appliances!

NuTone's powerful, 6-Speed Motor Unit installs beneath counter. Cordless attachments fit on stainless steel counter-plate. No clutter, no "cord-tangle"! NuTone's full-size appliances are easier to handle, to clean and to store. Power Unit, plus any Attachment, can be a STARTER-SET. 1/4-Horsepower motor, 340 w., 110-120 v. AC. Cutout: 4 1/2" x 10 1/2". Follow Local Code for 3-amp load. Motor must be grounded.



ICE CRUSHER — Fast easy way to make frosty drinks for children, tall ones for adults! No waste. For kitchens, family-rooms.



THE MIXER—4-Qt. motor-powered bowl. Holds in one hand. Beater has a handy Release-Button!



BLENDER — 6-Speeds. Break-resistant; easy to hold; triangular shape. Safety-seated blades.

Cat. No.	Description	Each
200N	Power Unit, Mixer, Blender, Knife-Sharpener	\$60.49
205	Power Unit, Blender	39.96
206	Power Unit, Blender and Ice-Crusher	53.01
221	Power Unit only	33.96
171N	Mixer	16.96
172	Blender	6.09
173N	Fruit Juicer	3.06
174	Knife Sharpener	5.27
176	Mixing Bowl for #178	3.06
177	Meat Grinder	18.71
178	Shredder-Slicer with Bowl, Top, Turntable, 3 Blades	10.54
180	Ice-Crusher	14.25
186	Mixing Bowl for #171N and #173N	3.74



KNIFE - SHARPENER — Safe, flexible discs won't destroy blade-temper. Removable grit-catcher.



FRUIT JUICER — Family size; holds 10 glasses; includes reamer & strainer. Use #186 bowl, turntable.

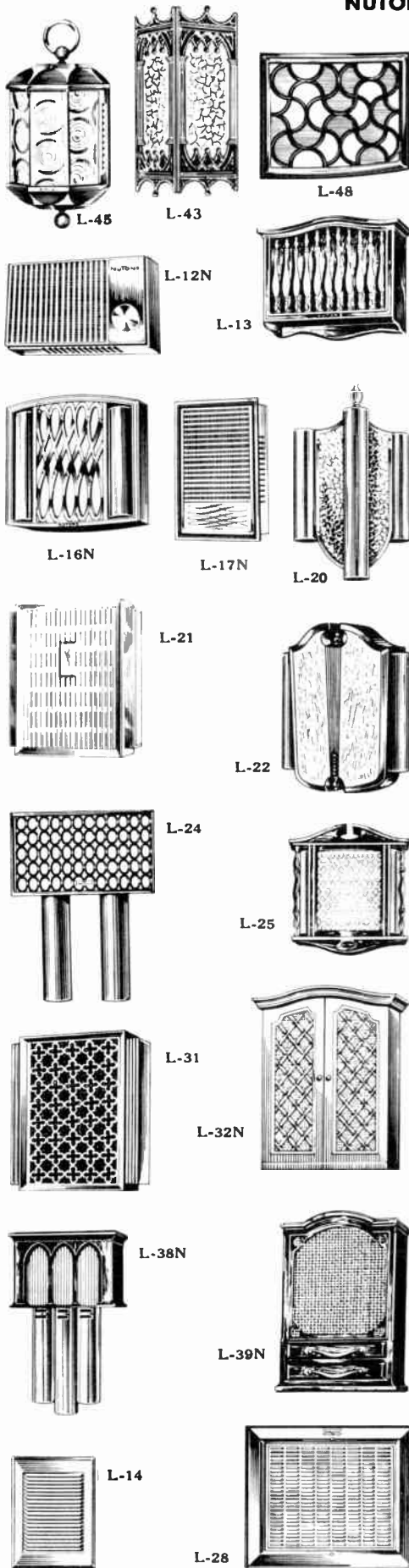


MEATGRINDER — Exclusive vertical design. Meat stays juicy, tender. No splattering. Lightweight.



SHREDDER - SLICER — For sliced, shredded, julienned vegetables. Safe covered blades.

NUTONE DOOR CHIMES AND TRANSFORMERS



L-43 "Renaissance". Lighted-Bracket Chime, in Antique Brass Finish. Translucent panels simulate Flemish hammered glass and glow from low-voltage lamps, included. Two notes front, 1 rear. $7\frac{1}{4}'' \times 12\frac{1}{2}'' \times 5\frac{1}{4}''$. Use NuTone 101N transformer (105N for more light) **Each \$12.32**

L-45 "Antigua" — Lighted-Lantern Door Chime with beautiful Antique Bronze finish. Amber front panel glows with soft light from low-voltage lamps included. Two notes for front door, one for the rear door. $6\frac{1}{8}'' \times 13\frac{3}{8}'' \times \frac{3}{4}''$ **Each \$10.24**

L-48 "Valencia" — A Door Chime and decorative Wall-Light! Scroll-plaque in dark Walnut and Gold finish. Illuminated color windows in green, yellow and blues. Includes low-voltage lamps. Two notes front door, 1 for rear. $9\frac{3}{4}'' \times 7\frac{5}{8}'' \times 3\frac{1}{8}''$ **Each \$10.89**

L-12N "Champion" — Contemporary plastic cover in Oyster White or Ivory, with gold and silver finish ornaments and trim. 2 notes for front door, 1 note for rear door. $7\frac{5}{8}'' \times 4\frac{5}{8}'' \times 2\frac{3}{8}''$ **Each \$ 3.41**

L-13 "Concord" — Antique Walnut finish Colonial cover with spindles. Two notes front door, 1 note rear door. $8\frac{1}{4}'' \times 6\frac{1}{2}'' \times 2\frac{3}{4}''$ **Each \$ 4.88**

L-16N "Futura" — Contemporary plastic cover in Ivory and Gold* or Oyster White and Silver* Sounds two notes for the front door and one note for the rear door. $8'' \times 7\frac{5}{8}'' \times 2\frac{1}{2}''$ **Each \$ 5.53**

L-17N "Decorator" — Decorator styled plastic cover in Desert Sand with gold and brown finish metal ornament and trim. Two notes for the front door, one note for the rear door. $5'' \times 8'' \times 2\frac{3}{8}''$ **Each \$ 4.88**

L-20 "Mt. Vernon" — Gold* Antique Hammered finish. Colonial design. 2 notes for front door, 1 note for rear door. $7\frac{1}{8}'' \times 11\frac{3}{4}''$ **Each \$ 7.48**

L-21 "Rythmatic" — Walnut and Gold Anodized* or Desert Sand and Gold Anodized*. Repeating chime front door, 2 notes sound for rear door, one note for the third door. $6\frac{3}{8}'' \times 7\frac{5}{8}'' \times 2\frac{5}{8}''$ **Each \$ 6.83**

L-22 "Jewel" — Walnut or Blond Elm finish Traditional cover with Gold* tubes. Sounds two notes for the front door and one note for the rear door. $7\frac{1}{8}'' \times 9'' \times 3''$ **Each \$ 6.83**

L-24 "Mayfair" — Ivory or Walnut finish plastic cover with Gold accent and Gold* tubes. Sounds two notes for the front door, one note for the rear door. $8\frac{1}{2}'' \times 11\frac{3}{4}'' \times 3''$ **Each \$ 6.18**

L-25 "Jamestown" — Rich Antique Walnut finish Traditional cover with attractive grille cloth, spindles and Gold* tubes. Sounds two notes for front door, one note for rear door. $8\frac{5}{8}'' \times 9\frac{3}{8}'' \times 3''$ **Each \$ 7.48**

L-31 "Pacesetter" — Desert Sand finish cover. Architectural stone design grille pattern with gold flecked grille cloth. 2 notes chord tone front door, 1 note rear door. $7\frac{1}{2}'' \times 9\frac{1}{8}'' \times 2\frac{7}{8}''$ **Each \$ 9.59**

L-32N "Provincial" — White and Gold* or Walnut finish cover with antique grille and gold-flecked grille cloth. Two notes chord tone for front door, one note for the rear door. $8\frac{1}{4}'' \times 10\frac{1}{8}'' \times 3\frac{3}{8}''$ **Each \$10.89**

L-38N "Riviera" — New, rich Walnut or Blond Elm wood-grain finish in striking Mediterranean style cover. Gold* tubes and trim. Four or 8 notes for front door, 1 for rear door, different note for third door. Transformer included. $9'' \times 14\frac{7}{8}'' \times 4''$ **Each \$22.05**

L-39N "Madison" — Rich, new Walnut or Blond Elm wood-grain finish cover. Traditional styling. Basket-weave grille cloth and Gold* ornaments. Eight or 4 notes for front door, 1 note for rear door, different note for third door. $8\frac{1}{4}'' \times 12'' \times 3\frac{3}{8}''$. Transformer included. **Each \$20.70**

NUTONE BUILT-IN DOOR CHIMES

L-14 "Built-In" — Ivory finish cover may be painted to match walls. 2 notes front door, 1 note rear. $5\frac{3}{8}'' \times 7\frac{3}{8}''$. Cutout $4\frac{1}{4}'' \times 6\frac{1}{8}'' \times 1\frac{3}{4}''$ deep. **Each \$ 4.88**

L-28 "Built-In" — White and Silver or Light Beige and Gold finish cover. 2 notes front door, 1 rear. Cover $9'' \times 8''$. Cutout $6\frac{3}{8}''$ sq. x 2" deep. Knockout for thin wall conduit. **Each \$ 6.18**

NUTONE TRANSFORMERS — "Lifetime Guarantee"

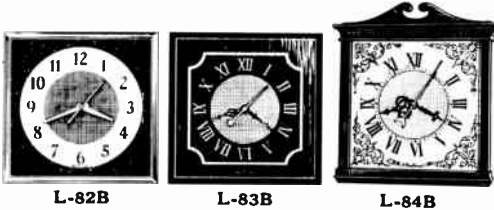
Contain Automatic Resetting Circuit Breakers.

Meet U.L. Requirements for 120 Volt Primary Rating.

Cat. No.	Description	Each
515-N	10 Volt, 5-VA. For chimes in small homes — and general purpose	\$1.89
101-N	16 Volt, 10-VA. Recommended for 2 note chimes and general purpose.	\$2.28
105-N	16 Volt, 15-VA. For multiple chime installations — and general purpose.	\$2.50
301-N	16 Volt, 30-VA. For oil and gas heating systems, air conditioning units, multiple chime installations, signaling equipment, etc.	\$3.09
201-N	24 Volt, 20-VA. For oil and gas heating systems, air conditioning units, Signaling equipment, etc.	\$2.89
320-N	8-16-24 Volt, Tri-Volt. For general purpose use.	\$3.48

NUTONE DOOR CHIMES, CLOCK CHIMES AND PUSHBUTTONS

BUILT-IN CLOCK CHIMES AND CLOCKS



Contain 16 V. Telechron Clock movements. Use 16 V. chime transformer. Pre-wired slip-on type connectors for clock motor connection — Have knock-outs for thin wall conduit. Clock Chimes cutouts: 6 7/8" sq. x 3 3/8" deep. Clock cutouts: 6 3/8" sq. x 2" deep. Clock Chimes sound two notes chord tone for front door and one note for the rear door.

L-82B Modern Clock Face — Copper*, Gold*, or Silver* with white hour indicators, Arabic numerals, Red sweep-hand.

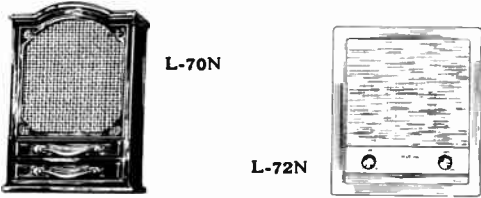
"Modern Clock-Chime" No. L-82B+L80A Each \$15.44
 "Modern Clock" No. L-82B+L81A Each \$10.73

L-83B Provincial Clock Face — Walnut wood finish, gold Roman numerals, Gold* anodized grille, 8 1/8" sq., 3/8" deep.

"Provincial Clock-Chime" No. L-83B+L80A Each \$16.09
 "Provincial Clock" No. L-83B+L81A Each \$11.38

L-84B Colonial Clock Face — Antique white with gold filigree, black Roman numerals with gold* anodized grille. Walnut finish frame 9" x 10" x 3/4".

"Colonial Clock-Chime" No. L-84B+L80A Each \$16.74
 "Colonial Clock" No. L-84B+L81A Each \$12.03



ELECTRONIC DOOR CHIMES

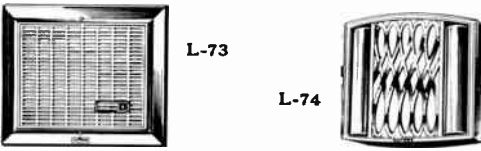
Connect with NuTone Music-Intercom Systems, including Stereo, and relay chime tones into rooms with speakers. Have volume-control. Can be heard above music or Intercom in all rooms; sound when system is turned off. Transformer included with each Chime.

L-70N Surface-Mounted "Electronic Deluxe" — Walnut, or Blond Elm finish cover. Traditional styling. Basket-weave grille cloth and Gold* ornaments. 8 or 4 notes front door, 1 rear, different note 3rd door. 8 1/4" x 12" x 3 3/8".
 Each \$26.37

L-72N "Electronic Built-In Deluxe" — Egg-shell white finish frame, light beige, gold-flecked grille cloth, gold finish control-panel. It matches NuTone 8" Stereo system speakers. Adjustable for 8 or 4 notes front door, 1 rear, different note 3rd door. Frame 9" x 10 1/2". Cutout for housing: 7 1/8" x 9 1/8" x 3 1/4".
 Each \$29.37

L-73 "Electronic Built-In" — 2 notes for front door, 1 note for rear. Light Beige finish plastic cover. Gold trim. 9" wide, 8" high. Housing 2" deep. Cut-out 6 7/8" sq. Has knockouts for thin wall conduit.
 Each \$11.97

L-74 Surface Mounted "Electronic" — Contemporary plastic Ivory cover, Gold trim and Gold* tubes. Two notes for front door, 1 note for rear. Has volume control switch. Transformer included. 8" x 7 7/8" x 2 1/2".
 Each \$11.37



TWO-NOTE NON-ELECTRIC

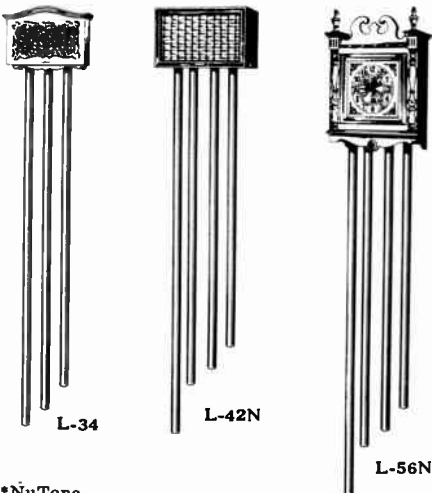
MC-310 "Deluxe Prevue" — Wide-angle Optical Lens Viewer. 2-Window Nameplate. Walnut or Oyster White cover: 1 1/8" x 3 1/8" x 7 3/8". For 3/4" to 2" doors.
 Each \$ 6.18

MC-309 "Pre-Vue" — Wide-angle lens. 2-Window Nameplate. Cover 3 1/8" x 7 3/8". For doors 3/4" to 2" thick.
 Each \$ 5.53

MC-304 "Greeter" — Nameplate. Cover: 3 1/8" x 7 3/8". For 3/4" to 3" doors.
 Each \$ 3.41

For up to 9" thickness use extension shaft EX311. Each \$.34

Cover-Colors for MC-309 and MC-304: Oyster-White or Walnut with Gold* Nameplate — Oyster-White with Silver* Nameplate.



LONG TUBE DOOR CHIMES

L-34 "Coronet" — Light Beige or Walnut finish plastic cover with Gold flecked grille cloth. Three satin brass tubes. Two notes for front door, one note for rear door. 8 5/8" x 42 3/4" x 2 7/8".
 Each \$11.54

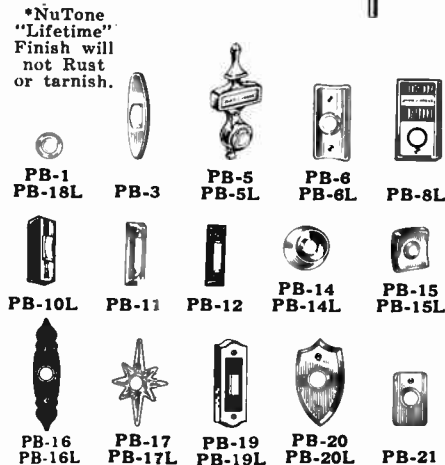
L-42N "Supreme" — New Walnut or Blond Elm finish Traditional cover. Antique grille, grille cloth and brass tubes. Selector switch for 8 or 4 notes front, 1 note rear, different note third door. Transformer included. 10 3/8" x 48 1/2" long x 5".
 Each \$31.50

L-56N "Jefferson" — Colonial wall clock and chime with hand-finished Walnut wood cabinet. Selector switch for 8 or 4 notes front door, 1 note rear, different note third door. 11" wide x 56 3/8" long x 6 1/4".
 Each \$56.70

L-42N, L-56N have Volume Control Switch; Westminster Chime Sequence. New, exclusive printed circuit on all 4 and 8 Note Motor Model Chimes and Electronic Motor Models. Features: (A) Faster signal response. (B) Multiple chime installations without relays or 4 contact pushbuttons. (C) Easier wiring.

Use NuTone Model 101-N 16 Volt Transformer for all 2 Note Chimes.

NUTONE PUSHBUTTONS



Lighted

Cat. No.	Each	Cat. No.	Each
PB-5L	\$2.73	PB-16L	\$1.53
PB-6L	1.37	PB-17L	2.24
PB-8L	1.72	PB-18L	.85
PB-10L	1.17	PB-19L	1.72
PB-14L	1.37	PB-20L	1.37
PB-15L	1.37		

Non Lighted

Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
PB-1	\$.34	PB-11	\$.45	PB-17	\$1.72
PB-3	.85	PB-12	.29	PB-19	1.37
PB-5	2.21	PB-14	.85	PB-20	.85
PB-6	.85	PB-15	.85	PB-21	1.20
		PB-16	1.04		

NUTONE BUILT-IN FM-AM and AM MUSIC-INTERCOM SYSTEMS

Luxury set, at a budget price! Room-Selectors at the Master for up to 10 Stations. New All-Call lever at Master lets you "page" every room with speakers at the same time. Each person can answer without walking to a speaker. Superb tone for your favorite music throughout the house and on the patio. Crystal-clear room-to-room Intercom plus protection of door-answering from any speaker. Also adapts for background music, without Intercom. Ideal for offices. "Local-Distance" switch for the best reception. Adjustable, automatic Intercom-Override. 19 Solid-State Components. Phono-Jack. AFC. 7" x 5" ceramic magnet speaker in Master. Uses any NuTone 3-wire speaker or accessory. 17 1/4" x 10 1/2" x 1 1/4".

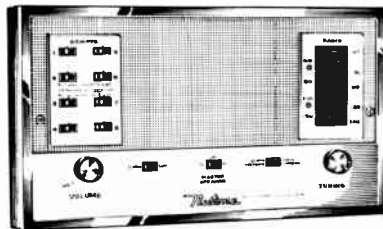
Model 2067, Egg-Shell White & Silver Anodized.Each \$106.47
Model 2068, Colonial Copper & Copper Anodized.Each \$106.47



Solid-State FM-AM Centralized System Models 2067 and 2068



FM-AM Centralized System Models 2055 and 2056



AM Centralized System Models 2053 and 2054

For pleasure, convenience and protection! Trim design, with Room Selectors for up to 8 Stations. Slide-Rule FM and AM Tuning Band for the finest selective accuracy plus AFC. Rotary Controls for Volume, function, tone and tuning. Talk-Listen Switch for Intercom and door-answering; clear reproduction of normal voice. Cool chassis for longer life. Fits into any wall 2 or more inches thick. Favorite FM and AM programs plus monitoring from any room . . . with Intercom. A built-in "baby-sitter", child-checker, "Watchman", to protect the family. Six tubes, 1 Rectifier. Phono-Jack, for auxiliary equipment. FM broadcast range 88-108 Mc.; AM range 540-1620 Kc. Speaker: 7" x 5", 3.2 ohm; 33 w., 120 v.

Model 2055, 15 1/2" x 9 1/2" x 1 1/4", Silver Anodized.Each \$ 92.47
Model 2056, 15 1/2" x 9 1/2" x 1 1/4", Copper Anodized.Each \$ 92.47

Exquisite tone! . . . Clearest Intercom! . . . Easiest installation! Every family loves built-in music. And now NuTone makes it easily available for every home, in every price-range. The AM models offer music, plus the advantages of Intercom inside and outside the house. Beautifully styled Master Stations for AM Radio, plus step-saving room-to-room Intercom and door-answering from up to 8 Stations. Has Slide-Rule tuning. Tip-out chassis; easy installation in any wall 2 or more inches thick. Clearest voice-transmission. No distortion. Five tubes. Broadcast range 540-1620 Kc. Phono-Jack for auxiliary equipment. 5"-Round Speaker, 3.2 ohms; 33 watts, 120 volts. Size: 16" x 8 3/4" x 1 1/4", in Silver or Copper Anodized finishes.

Model 2053, Silver AnodizedEach \$ 56.60
Model 2054, Copper AnodizedEach \$ 56.60

CHOICE OF SPEAKERS

5" Inside Speaker — Model 2027. Rotary Volume Control. Privacy setting. No eavesdropping. Talk-Listen button for Intercom and door-answering. 8 1/2" x 6 3/8" x 2 1/8". Desert Sand finish.**Each \$ 6.00**

8" Inside Speaker — Model 2021. "Break-Away" Panel removes to mount as Remote Control. Rotary Control. Talk-Listen button for Intercom and door-answering. Remote Control fits 2-gang wall box. 12" sq. x 2 3/8" deep. Desert Sand finish.**Each \$15.60**

8" Patio Speaker — Model 2014. Includes Remote Control which mounts in 2-gang wall box or special surface-mounted #2013-A. Can be used inside with #2411-A frame and painted. 13 3/4" sq. x 2 3/8" deep. Weatherproof Aluminum.**Each \$15.47**

Built-In Door Speaker — Model 2007. Has 3-position Talk-Listen switch. Center for "off" or low listening level. 4 3/8" x 6 1/8" x 1 3/8". Gold Anodized finish.**Each \$ 9.67**

Built-In Door Speaker — Model 2008. New and highly stylized with 2-position Pushbutton for Talk-Listen instead of "slide" switch. 4 3/8" x 6 1/8" x 1 3/8". Weatherproof Gold Anodized finish.**Each \$ 7.87**

Surface-Mounted Door Speaker — Model 412. For all NuTone Systems. Can mount on wall, ceiling or soffit, with Talk-Listen button installed in door jamb. 4 3/8" x 3 3/8". Desert Sand & Gold finish. Weatherproof.**Each \$ 9.47**

Built-In Door Speaker — Model 2006. Has 2-position switch. 4 3/8" x 5 7/8" x 1 1/4". Gold Anodized Weatherproof finish.**Each \$ 5.27**

Use NuTone 3-Conductor Wire — 200 ft. #2040: \$4.80, 1000 ft. #2042: \$17.32. Outdoor FM Antenna #2420: \$8.47.

Model 2073 Record Changer can be used with ANY of these Systems!

NOTE: Model Nos. are for finished units. Order proper Rough-In Kits.

NUTONE "COMMU-NI-COM" — New Solid-State Intercom System!

Can Be SURFACE-MOUNTED or BUILT-IN!

For offices, shops, Nursing Homes, and Institutions; Factories, new or Remodeled Homes!



Master Unit Model 470



Inside Speaker Model 472



Door Speaker Model 471

Commu-Ni-Com offers step-saving convenience of Intercom for up to 12 locations. The ideal system for light commercial and institutional use, and homes where music is not wanted as part of a room-to-room Intercom System.

Master Unit can install on the surface. Inside Remote Speakers can be built-in or surface-mounted. Where convenience and protection of door-answering are desired, there's a surface-mounted Door-Speaker controlled by each inside remote, to insure complete safety and privacy. A NuTone Electronic Door Chime may be connected.

Commu-Ni-Com Master Unit — Model 470. Amplifier for up to 12 remote speakers. No controls needed. Requires a transformer (see below). 4 3/8" x 7 3/8". Egg-Shell White & Brushed Aluminum finish.**Each \$23.00**

Commu-Ni-Com Inside Speaker — #472. For built-in or surface-mounting. Remarkable clarity of normal voice-level. Volume Control, plus 1 switch for room-to-room Intercom, another for door-answering. 4 3/8" x 6 3/8". Egg-Shell White & Gold finish.**Each \$ 7.40**

Commu-Ni-Com Door Speaker — Model 471. Mounts on wall, ceiling or soffit. No lever needed. Caller uses Door Chime; control is at inside speakers only. 3 3/8" x 4 3/8". Egg-Shell White & Gold finish.**Each \$ 6.00**

Accessories:
6-Conductor Wire, 200 ft. #447: \$10.33, 1000 ft. #448: \$46.00.

2-Conductor Wire, 50 ft. #2422: \$1.27.
16-Volt Transformer, 15 w. (VA), #105N: \$2.50.

NUTONE BUILT-IN SOLID STATE STEREO SYSTEM

*Master Unit Model 2071. Amplifier, Stereo-FM, FM and AM Tuner. Dual-channel, centralized system. Ten Selector-Switches for built-in speakers. Stereo and monaural music, room-to-room Intercom. Door-answering from any speaker. "Locator" selects stereo broadcasts. 38 solid state components. AFC. Output 10w. Input 110-130v., 60 cycle, 15w. (No speaker) 15 3/4" x 9 1/2" x 3 3/8" deep. **Each \$227.33**

†"Fold-In-Wall" Stereo Record Changer — Model 2073. Mono-Stereo Hi-Fidelity. Fold out for use; folds into wall, out of sight. Plays all speeds. Intermixes 10" and 12" of the same speed. Diamond stylus for Stereo and LPs, Sapphire for 78 RPMs. 110-130v. AC, 60 cycle, 15 w. 15 3/4" Sq. x 4" deep. **Each \$63.66**

†"Fold-In-Wall" Stereo Tape Recorder/Player — #2406. Plays and records 4-Track Stereo and monaural Tape, favorite radio, records, speeches, etc., with up to 7" reels at 1 1/2, 7 1/2 and 3 3/4 IPS. Transistorized preamplifiers. Automatic shut-off. Accurate Numerical Counter. Fits #2074 Cabinet. No speaker. Portable for recording! 110-130v. AC, 60c., 55w. 15 3/4" sq. x 4" deep. Cabinet is extra (see below). Tape Recorder/Player. **Each \$192.67**

†"Fold-In-Wall" Storage Cabinet — Model 2074. Holds up to 40 phonograph records. Is prewired to contain Model 2406 Tape Recorder/Player, see above. 15 3/4" square x 4" deep. **Each \$38.00**

*Walnut & Gold Finish. †Walnut & Desert Sand Finish.

CHOICE OF SPEAKERS

8" Hi-Fi Inside Speaker Model 2081. Has "Break-Away" controls. For Stereo plus Intercom (when used in same room with #2082). Monaural music plus Intercom when used alone. Controls both channels. "Talk-Listen" button for Intercom and door-answering. "Break-Away" Control can be mounted separately. 12 3/4" x 12 1/4" x 2 5/8". Egg-Shell White frame, Fabric Grille. **Each \$20.93**

8" Hi-Fi Inside Speaker Without Controls, Model 2082. Used with and controlled by #2081 in same room, for Stereo. Same size & finish as #2081. **Each \$13.53**

5" Inside Speaker — Model 2027. For rooms where Intercom is primarily desired. Volume-Control; Talk-Listen button for Intercom and Door-answering. 8 1/2" x 6 3/8" x 2 5/8". Desert Sand finish. **Each \$6.00**

8" Patio Speaker With Controls — Model 2084. Music, Intercom and door-answering from the patio! Use with #2085 for Stereo. Includes Remote-Control. Weatherproof. 13 3/4" sq. x 2 5/8" deep. Aluminum. **Each \$20.27**

8" Metal Speaker Without Controls Model 2085. Used with and controlled by #2084 for Stereo. Can also be used inside with a different rough-in kit. Same size and finish as #2084. **Each \$12.27**

Deluxe High-Fidelity Speaker System — Model 2419. One 12" woofer, 1 lb. magnet, two 3 1/2" tweeters. Use two for

Stereo-FM+Stereo Records+ Stereo Tape+ Intercom

Master Unit, Amplifier, Tuner



Stereo, one for monaural. Control volume and Intercom with Remote Unit #2083. 17 1/8" x 28 1/8" x 3 3/4". Walnut frame, fabric Grille. **Each \$63.00**

DOOR SPEAKERS let you answer strangers from inside, or the patio; check on child activities; monitor outside sounds at night. (Door-speakers not designed for music).

Surface-Mounted Universal Door Speaker — Model 412. For use with all NuTone Systems. Can mount at arm height, or out of reach on ceiling, wall or soffit with Talk-Listen button installed in the door jamb. 4 5/8" x 3 3/4". Desert Sand & Gold finish. **Each \$9.47**

Built-In Door Speaker — Model 2007. Has 3-position Talk-Listen switch. Center is "off". 8 1/2" x 6 3/8" x 2 5/8". Desert Sand finish. **Each \$9.67**

Built-In Door Speaker — Model 2008. Highly stylized. Has 2-position Push-Button instead of "slide" switch. 4 5/8" x 6 1/8" x 1 5/8". Gold Anodized finish. **Each \$7.87**

Built-In Door Speaker Model 2006: 2-position switch. 4 5/8" x 5 5/8" x 1 3/4". Gold Anodized. **Each \$5.27**

NOTE: Model Numbers are for finished units only.

Be sure to order proper Rough-In Kits. Use NuTone 5-Conductor flat Wire — 200 ft. #2078: \$8.13. 1000 ft. #2079: \$36.33. Outdoor FM Antenna #2420: \$8.47.

NUTONE 8-WIRE SOLID-STATE MUSIC INTERCOM SYSTEM

DELUXE BUILT-IN FM-AM MODELS N-2561, N-2562

Superb tone! Crisp, clear room-to-room Intercom and radio music for the entire home, plus door-answering from any speaker. Needs no room-selector switches at the Master. Eight-wire cable. Wires from one station to another; not always back to Master. Saves hours of costly "on-the-job" time! Removable, Walnut-grain frame included. Master Station available in Silver or Copper finish. 17 3/8" x 9 5/8" x 1 1/4".

*Model N-2561 FM-AM Master Station, Silver Finish. **Each \$129.86**
 *Model N-2562 FM-AM Master Station, Copper Finish. **Each \$129.86**

(Record Changer shown above can be used with this System)

OUTSTANDING FEATURES

25 Solid State Components. No tubes to replace. Turn off music at any station and still send or receive Intercom calls and door-chime signals (When a NuTone Door-Chime is connected to system). Answer Intercom without walking to a speaker. Music is silenced when Intercom is being used. No outside controls needed at Door-Speakers. Permits at least 16

Remote-Speaker Stations. Largest Master Station Speaker: 9" x 6". Twice as powerful; twice as sensitive. Plug-in "B" Unit. Removes easily for servicing. "Sealed-in" metallic finishes will not corrode. Automatic Frequency Control prevents station-drift. Two phono-jacks: One internal, one external.

CHOICE OF SPEAKERS

Model 2570 — Wide Range 5" Inside Speaker. Rotary Controls. Privacy-setting prevents eavesdropping. Talk-Listen Levers for Intercom and door-answering. 9 1/4" x 6 1/2" x 1 1/2". Desert Sand finish. **Each \$ 11.80**

Model 2572 — Hi-Fi 8" Inside Speaker. "Break-Away" Control removes to mount as a Remote-Control. Includes "snap-in" panel to replace panel in speaker. Rotary Controls. Talk-Listen Levers for Intercom and door-answering. Bezel Frame furnished for mounting "Break-Away" Panel, if used as a Remote. 12" sq. x 2 5/8" deep. Desert Sand finish. **Each \$ 18.93**

Model 2571 — Door Speaker. Mounts in wall, ceiling, or soffit. Weatherproof. 4 5/8" x 6 1/8" x 1 3/4". Black and Gold Anodized finish. **Each \$ 9.00**

Model 412 — Surface Mounted Door Speaker. For size, and description, see above. For this system, discard Talk-Listen button and use replacement insert (included). **Each \$ 9.47**

Model 2573 — Hi-Fi 8" Patio Speaker. Weatherproof Aluminum. Includes Remote-Control: Talk-Listen levers, Rotary-Controls. Permits Speaker to be mounted out of reach. 13 3/4" sq. x 2 5/8" deep. **Each \$ 18.94**

*Master Stations include AM Antenna Wire, FM omni-directional Antenna, 50 ft. of lead-in wire, mounting hardware, low-voltage power transformer. Use NuTone 8-conductor wire — 50 ft. #2421: \$4.33, 250 ft. #2424: \$12.33, 1000 ft. #2425: \$49.00. Outdoor FM Antenna #2420: \$8.47



EMERSON-RITTENHOUSE SOUND SYSTEMS

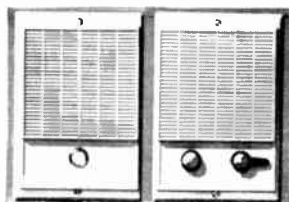
AM or AM/FM ALL TRANSISTOR
RADIO-INTERCOM SYSTEM



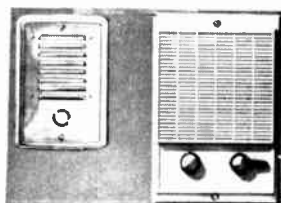
Privacy switching, monitoring, door answering service. Hi-low and off switching on master. Plug in your record player and "pipe" your favorite music to any room—anytime. Package consists of master, 3 indoor speakers, 1 outdoor speaker, transformer, mounting frames, and 120 foot cable. Many optional accessories. Ebony and black or brown and copper.

No. RM-20 AM Radio, complete package \$70.19
No. RM-22 AM/FM Radio, complete package 104.94

OUTERCOM SYSTEMS



No. DS-1



No. DS-2

The DS-1 Emerson-Rittenhouse Door Sentry provides convenience and security. This attractive "outercom" system allows the door to be answered in complete privacy—no more unexpected or unwelcomed surprises. You know "who's there" before the door is opened. For use on existing homes.

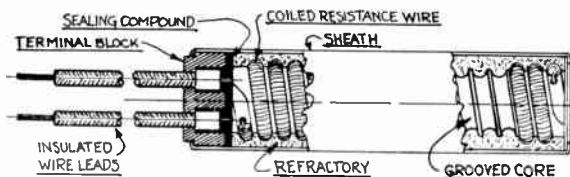
No. DS-1 Door Sentry complete includes indoor remote station and outdoor remote station, 30' of 5 conductor cable. Wt. 3 lbs. \$21.32

The DS-2 system Door Sentry outercom is simple to install and operate. Uses standard door chime wire and 16 volt chime transformer. For use in new construction.

No. DS-2 Door Sentry complete includes indoor and outdoor remote stations. Wt. 3 lbs. \$18.05

CHROMALOX CARTRIDGE HEATERS

TYPE C



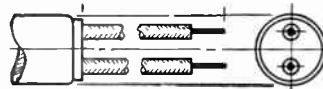
Suitable for dies, platens, plastic molds, process machinery, etc., operating temperatures up to 600° F. Used wherever it is necessary to concentrate heat in confined areas by inserting heaters in close fitting, drilled holes. Drill holes to the proper length and nominal cartridge diameter and ream plus .003" max.—minus .000".

Construction consists of a helical coil of nickel chromium resistance wire embedded in refractory material which is encased in a metal sheath. Brass sheath is standard. Maximum safe sheath temperature 750° F. Sheath operating temperature is dependent on both the particular application and the watts per square inch of sheath.

Cat. No.	Sheath Diameter		Sheath Length Inches	Watts	Each
	Nominal Size In.	Decimal Size Inches			
C-201*	3/8	.373 Max.	1 1/8	50	\$2.50
C-202*	3/8	.373 Max.	1 1/8	30	2.50
C-203*	3/8	.373 Max.	2 3/8	75	2.73
C-205	3/8	.373 Max.	3 1/8	100	3.05
C-206	3/8	.373 Max.	4	150	3.45
C-207	3/8	.373 Max.	5	200	3.70
C-208	3/8	.373 Max.	6	250	4.06
C-301	1/2	.498 Max.	2 3/8	75	2.73
C-302	1/2	.498 Max.	2 3/8	100	2.73
C-303	1/2	.498 Max.	2 3/8	120	2.73
C-304	1/2	.498 Max.	5 1/8	150	4.09
C-305	1/2	.498 Max.	5 1/4	250	3.90
C-306	1/2	.498 Max.	6	300	4.22
C-401	5/8	.622 Max.	2 3/8	75	3.02
C-410	5/8	.622 Max.	2 3/8	90	3.02
C-411	5/8	.622 Max.	2 3/8	100	3.02
C-412	5/8	.622 Max.	2 3/8	125	3.02
C-413	5/8	.622 Max.	2 3/8	165	3.02
C-414	5/8	.622 Max.	2 3/8	180	3.02
C-402	5/8	.622 Max.	2 3/8	150	3.02
C-417	5/8	.622 Max.	3 3/8	150	3.61
C-418	5/8	.622 Max.	3 3/8	240	3.61
C-403	5/8	.622 Max.	4 3/8	240	3.90
C-491	5/8	.622 Max.	5 3/8	285	4.22
C-404	5/8	.622 Max.	6 1/2	350	4.61
C-405	5/8	.622 Max.	8 3/8	450	5.33
C-406	5/8	.622 Max.	10 3/8	500	5.95
C-407	5/8	.622 Max.	12 3/8	550	5.63
C-408	5/8	.622 Max.	15	600	6.34
C-502	3/4	.747 Max.	2 3/8	200	3.25
C-503	3/4	.747 Max.	3 3/8	250	3.77
C-504	3/4	.747 Max.	4 3/8	350	4.39
C-505	3/4	.747 Max.	6	350	4.91
C-506	3/4	.747 Max.	7 3/8	450	5.33
C-507	3/4	.747 Max.	9 3/8	500	5.91
C-508	3/4	.747 Max.	10 1/2	550	6.47
C-509	3/4	.747 Max.	11 3/8	600	6.99
C-510	3/4	.747 Max.	13 3/8	650	7.51
C-511	3/4	.747 Max.	14 3/8	750	7.06

*120 volts only. All others 120 or 240 volts.

Type A Terminal Construction



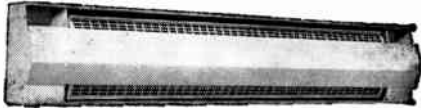
TYPE A (3/8" TO 3/4" DIA. INCL)

Lead Length: 10 Inches

Type A Lead—is standard on all standard units 3/4 inch dia. or less. Lead wires are flexible for easy installation in confined areas. Stranded manganese nickel wire is asbestos covered to withstand high temperatures.

CHROMALOX ELECTRIC BASEBOARD HEATERS

BB-A AND BB-B BASEBOARD HEATERS



Safe, efficient Chromalox wrapped-fin heating element. Gentle warmth provided automatically. Heavy-duty steel construction. Continuous linear thermal cutout prevents overheating. Heater can be mounted without removing cover. Integral junction boxes form end caps and provide for wiring at either end. Front and back baffles removable as one piece.

Compact size and design — only 6" high x 2 1/8" deep. Coral Tan baked-on enamel. Can be painted to match any color.

UL labeled and NEMA verified.

120, 208, 240 or 277 1/2 Volts (Specify)

Cat. No.	BTU	Watts	Length Feet	Shpg. Wt. Lbs.	Each
BB-A-3L	2560	750	3	13	\$15.60
BB-A-4L	3413	1000	4	15	19.50
BB-A-6L	5130	1500	6	22	31.20
BB-A-8L	6840	2000	8	29	38.90
BB-B-3L	1707	500	3	13	15.60
BB-B-4L	2218	650	4	15	19.50
BB-B-6L	3420	1000	6	22	31.20
BB-B-8L	4446	1300	8	29	38.90

†Add prefix "T" for integral thermostat, i.e. BBT-A-6L etc.

BB-A AND BB-B ACCESSORIES

Cat. No.	Description	Each
BB-AC-1	Splice Plate	\$0.35
BB-AC-2	Inside Corner	1.95
Thermostat Sections		
BB-AC-3	SPST (2500 at 120)	9.10
BB-AC-3D	DPST (5000 at 240)	10.90
BB-AC-3R	SPST (with outlets)	10.40
BB-AC-3RD	DPST (with outlets)	12.20
Outlet Section		
BB-AC-4	W/o Thermostat	4.55
Blank Section		
BB-AC-5B	4 Foot	7.80
Control Sections		
BB-AC-6	W/Receptacle, 120 or 240V.	7.15
BB-AC-6T	W/SPST Thermostat 120 or 240V.	12.10
BB-AC-6TD	W/DPST Thermostat 120 or 240V.	13.25
BB-AC-7	W/SPST Relay, 240V.	14.65

CHROMALOX THERMOSTATS TYPES WR-80 AND WR-90



Control room temperature by automatically turning electric heater off when desired temperature is reached. Can be used to control heater within thermostat rating. WR-80 has range of 40° to 80° F and has finer appearance for residential use. WR-90 has range of 20° to 90° F. Both have capacity of 3000-watts at 120-volts A.C. WR-80 is rated 5280 watts and WR-90 is 4800 watts at 240-volts A.C. For higher ratings use magnetic contactor.

Type WR thermostat should be wall-mounted (inside wall) 4 or 5 feet above the floor. Contacts open or close with a 3 degree temperature change.

WR-80 or WR-90 Thermostat.....each \$15.55

CHROMALOX P'RIM-TRIM DRAFT BARRIER HEATER



Gentle warmth at window area overcomes immediate heat loss for more even comfort, without drafts. P'rim-Trim is extremely compact — hugs the window like a molding — only 4' long, 3" high, 1 1/2" deep. Continuous linear thermal cutout. Design allows for right or left hand wiring with entry back or end. Units may be individually mounted or adjoining.

120 or 240 Volts (Specify)

Cat. No.	Watts	BTU/HR	Std. Pkg.	Wt. Lbs. Std. Pkg.	Each
WB-4L	400	1368	6	30	\$12.95
WB-AC-1	Inside Corner	.....	2	3	1.95

CHROMALOX LOW VOLTAGE THERMOSTATS

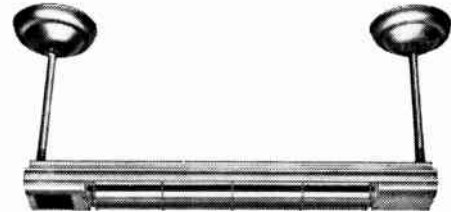
WR-1E30 Thermostat

Range: 45°F. to 85°F.
Differential: Adjustable
1/2°F. to 2°F.
Electrical Rating:
30 volts A.C. Max.
Adjustable Heat Anticipator: .2 to 1.0 amps.



No. WR-1E30each \$6.50

CHROMALOX FAR-INFRARED ELECTRIC COMFORT HEATERS



Decorative ceiling-type mounting for stores, bowling alleys, offices and other commercial uses.

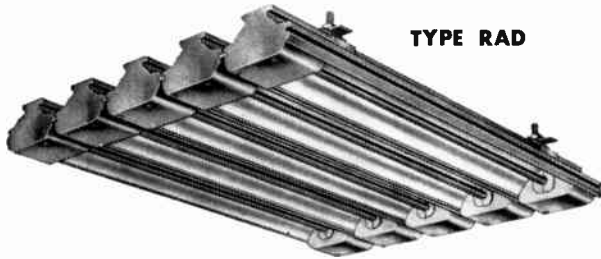
Heating element is a totally enclosed, refractory insulated Chromalox Tubular element. The element housing is a specially designed rigid aluminum extrusion; the reflector is highly polished aluminum designed for easy access and removal from the face side. Fixture stems provide minimum 12" spacing below combustible ceiling; each stem has canopy and fixture for attachment to standard conduit box.

Stainless steel grille for protection against accidental contact is shipped as standard equipment on each heater. UL listed.

Cat. No.	Length, In. Heated	Overall	Watts	Each
120, 208, 240 Volts				
SKR-2083	16 1/2	24 3/4	800	\$19.50
SKR-3113	22 3/4	30 3/4	1100	21.35
208, 240, 275 Volts				
SKR-4183	38 1/2	46 3/4	1800	29.02
208, 240, 275, 480 Volts				
SKR-5253	53 3/4	61 3/4	2500	30.78
SKR-6303	65 3/4	73 3/4	3000	33.47
SKR-7363	78	85 3/4	3600	35.88

Underwriters' listing applies to Type SKR Heaters installed with these minimum spacings: 12" from ceiling as provided with fixture stems, six feet from floor, and 24" from walls.

CHROMALOX RADIANT HEATERS

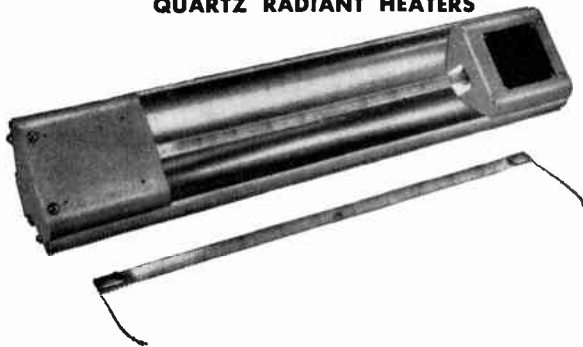


TYPE RAD

Heat source is a Chromalox enclosed tubular element, alloy sheathed and with triangular cross-section, located at the focus of a parabolic reflector and mounted on secondary insulating bushings to withstand high voltage. Aluminum reflector is held in an all-metal housing. Sliding steel clamps can be positioned anywhere along the heater length. Connectors and mounting clamp assemblies are furnished.

Cat. No.	Watts	Overall Lgth. In.	Heated Lgth. In.	Std Voltage	208V. or 275V.
120 or 240 Volts					
RAD-2083	800	24%	16½	\$17.78	\$19.56
RAD-3113	1100	30%	22¾	19.82	21.84
240 or 480 Volts					
RAD-4183	1800	46%	38½	26.42	27.75
RAD-5253	2500	61%	53%	33.08	34.71
RAD-6303	3000	73%	65%	37.18	39.03
RAD-7363	3600	85%	78	41.31	43.39

TYPE QR HIGH INTENSITY QUARTZ RADIANT HEATERS



Type T-3 Quartz element is mounted on special porcelain at the focus of parabolic aluminum housing, to direct rather uniform radiation outward. Housing has tapped opening for power connections to each end. Mounted like RAD heaters.

Designed for use as personnel comfort heaters and for industrial heating purposes. This high intensity heater, producing 100 watts output per lineal-inch of heated length, may be operated in banks facing-up, down or sideways, but the element must be mounted in a horizontal position. Heater produces both near-infrared and far-infrared radiation, absorbed by surfaces of most colors.

Cat. No.	Watts	Volts	Overall Length, In.	Heated Length, In.	Net Wt. Lbs.	Each
QR-50†	500	120	13 1/8	5	4	\$18.59
QR-510†	500	120	13 1/8	5	4	22.10*
QR-100†	1000	240	18 1/8	10	6	21.77
QR-1010	1000	240	18 1/8	10	6	26.18φ
QR-160†	1600	240	24 1/8	16	7	25.97
QR-1610	1600	240	24 1/8	16	7	31.23
QR-250†	2500	480	33 1/8	25	8	33.34
QR-250	2500	600	33 1/8	25	8	33.34
QR-380	3800	600	45 1/8	38	13	43.16

†Stock — all others three weeks.

*Includes 6" BX and 2-prong plug.

φIncludes 6" BX and Polarized plug.

When Ordering—Specify quantity, catalog number, volts and watts.

CHROMALOX THERMWIRE

THERMWIRE STEP DEFROSTER MATS



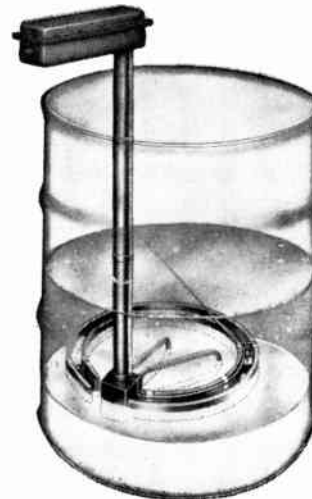
This ready-to-install assembly is designed especially for imbedding in concrete steps to clear snow and ice from this hazardous area. The two-step and three-step mats can be combined for four or more steps. Or use on landings by closing space between heated sections. Each mat has 10' lead wire and 10' ground wire, each with ends stripped. All are Underwriters' Laboratories listed for snow-melting.

Cat. No.	Volts	Watts	No. Steps	Each Step Lgth.	Each Step Wdth.	Each
STW-2A	115	240	2	36"	8"	\$9.71
STW-3A	115	360	3	36"	8"	12.97
STW-22A*	230	240	2	36"	8"	9.71
STW-23A*	230	360	3	36"	8"	12.97

*Available also in 208V. at same price by changing first "2" to an "8", e.g. STW82A.

CHROMALOX IMMERSION HEATERS

TYPE KBLC-2 BLADE TYPE DRUM HEATERS



Specially designed for melting coconut oil, lard, etc., packed in drums. Remove head of drum and allow heater to melt its way down through the contents. Complete with braces for additional strength. Stainless steel heaters are completely constructed of stainless steel, except for steel terminal box, covered with acid and heat resistant paint.

Height 36".

Steel Construction

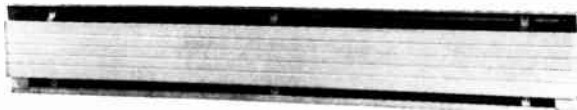
Cat. No.	Watts	Volts	Minimum Clearance Opening Inches	Each Without Thermostat	Each With AR Thermostat
KBLC-22	1100	120 or 240	11	\$51.48	\$70.10
KBLC-23	1650	120 or 240	11	54.40	73.06
KBLC-24	2200	120 or 240	12%	57.30	75.14
KBLC-25	2750	120 or 240	13%	59.67	77.84
KBLC-26	3300	120 or 240	15%	62.82	81.59
KBLC-28	4400	240 Only	17%	68.48	87.88

Stainless Steel Construction

KBLS-244	2200	120 or 240	12%	83.17	111.54
KBLS-255	2750	120 or 240	13%	87.52	115.57
KBLS-266	3300	120 or 240	15%	91.23	119.84
KBLS-288	4400	240 Only	17%	99.25	128.18

EMERSON ELECTRIC HEATING

DELUXE BASEBOARD — BB SERIES



Deluxe baseboard of heavy construction suitable for residential, commercial and industrial application. Enclosed "finger proof" elements, lineal thermal protector with screw fastened front cover, in slim distinctive design. Double end junction boxes, full length wiring raceway. Beige finish. NEMA verified. Height, 7"; depth, 2". 240 volt, 25/50/60 cycle A.C.

Medium Density — 250 Watts/Ft.

Cat. No.	Watts	Amps	BTU Output	Lgth. In.	Size Wire	Each
BB45-2*	450	1.9	1536	24	14	\$14.65
BB75-2L	750	3.13	2560	38	14	19.45
BB100-2L	1000	4.16	3413	48	14	22.70
BB150-2L	1500	6.25	5120	72	14	31.20
BB200-2L	2000	8.33	6826	96	12	36.20

208V and 277V units available on special order. Also 120V (450 watt) BB45-1.

*This model is designed for use in bathrooms or small areas where an individual heater is required.

Low Density — 175 Watts/Ft.

Cat. No.	Watts	Amps	BTU Output	Lgth. In.	Size Wire	Each
BB525-2L	525	2.19	1792	38	14	\$19.45
BB700-2L	700	2.92	2389	48	14	22.70
BB1050-2L	1050	4.38	3584	72	14	31.20
BB1400-2L	1400	5.83	4778	96	14	37.70

208V units available on special order.

STANDARD BASEBOARD — SB SERIES



A low cost unit with "safe-to-touch" heat levels. A Fin-tubular element, fully thermally protected, in slim attractive design, beige finish, suitable for residential, commercial and industrial applications. NEMA verified. 240 volt. Height, 1 1/4"; depth 2 1/2".

Cat. No.	Watts	BTU Hr.	Lgth. In.	Amps	Protector	Each
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Medium Density — 250 Watts/Ft.

SB450-2	450	1536	24	1.9	1 Disc	\$14.00
SB750-2	750	2560	40	3.3	2 Disc	16.95
SB1000-2	1000	3413	48	4.4	2 Disc	19.20
SB1500-2	1500	5120	72	6.5	Lineal	26.70
SB2000-2	2000	6826	96	8.7	Lineal	32.55

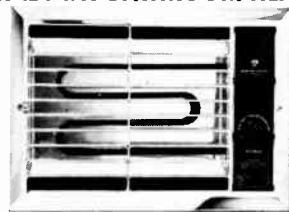
Low Density — 175 Watts/Ft.

SB525-2	525	1792	40	2.19	2 Disc	\$16.95
SB700-2	700	2389	48	2.92	2 Disc	19.20
SB1050-2	1050	3584	72	4.38	Lineal	26.70
SB1400-2	1400	4778	96	5.83	Lineal	32.55

208V also available.

RT SERIES

RADIANT BATHROOM HEATERS WITH THERMOSTAT

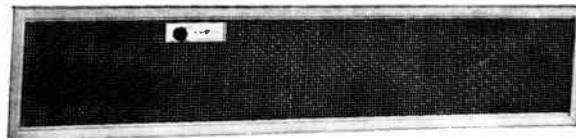


Instant warmth in smartly styled, horizontal radiant heater. Self-contained, thermostatically controlled. Easy slip strap mounting in 16" OC studs. Chrome reflector, back of tubular element, and attractive chrome grille. Supply conductors, 14 AWG (60°C).

Cat. No.	Watts	Amps	BTU Hr.	Each
RT-700MA*	700	6.5	2389	\$8.75
RT-1000MA*	1000	9	3413	8.75
RT-1250MA*	1250	11	4266	8.75

*Wall box not included. RH-1 Wall box 2.90

FAN FORCED BASEBOARD — FB SERIES



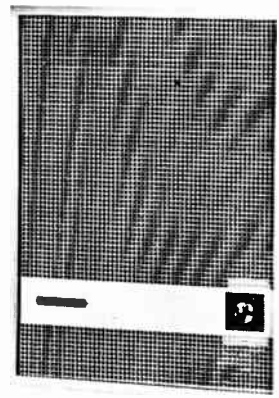
Deluxe heater with two warm air discharges, and center air intake. Lineal thermal protector for ultimate in safe operation. Unit will recess into wall and mounts in 16" stud spacing. Self-contained with own thermostat. Beige finish. 240 volt. Grille width, 47 1/4"; height, 10 1/4". Wall opening: width, 46 1/4"; height, 8 3/4"; depth, 3 3/8".

Cat. No.	Watts	Amps	BTU Hr.	Wire Size (or Larger)	Each
FB15-2	1500	6.8	5120	14	\$46.30
FB20-2	2000	9.0	6826	14	50.95
FB25-2	2500	11.2	8525	12	55.70
FB30-2	3000	13.3	10239	12	60.35
FB40-2	4000	17.8	13652	12	67.10

KIT-2 Surface Mounting Accessory Enclosure 5.20
 FB-15 Plaster strip for above heaters70

Units for 208V and 1500 watt 120V available on special order.

FAN FORCED WALL HEATER — RF SERIES



Fits standard 16" stud walls. Beige grille inserted in extruded aluminum frame. Self-contained, with thermostat, and Bi-Metallic thermal protectors. Unit utilizes blow fan impeller. Surface mounting kit available. 240 volt, 60 cycle. Thermostat 55°F to 103°F. Grille: width, 15 1/2"; height, 19 1/8"; depth, 1 1/8". Without housing.

Cat. No.	Watts	Amps	BTU Output	Wiring	Each
RF150-2MA	1500	6.50	5120	14 TW	\$33.15
RF200-2MA	2000	8.50	6825	14 TW	36.75
RF300-2MA	3000	12.7	10240	14 TW	41.65
RF400-2MA	4000	17.0	13650	12 TW	48.15
RFH*	Housing for Recess Mtg.				5.90
RFW*	Housing for Surface Mtg.				5.90

*Wall opening: 14 3/8" x 19 1/8" x 4".
 208V available on special order.

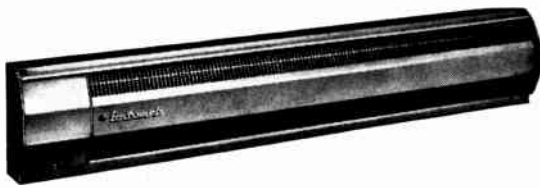
FAN-HEATER-LIGHT 5010-1 SERIES



Has 1500 watt nickel-chrome element mounted in bright aluminum reflector, 2—60 watt lamps, and super quiet squirrel-cage blower. Positive action, fully automatic diverter closes exhaust part when used as heater. Lights and exhaust work independently or together and in combination with heating function. Chrome grille finish with white opal flat glass lens. Blower HVI rated 70 CFM each \$35.05

ELECTROMODE HEATING

Low-LEVEL BASEBOARD HEAT



For every installation, Electromode Low-Level Baseboard is engineered to meet all your requirements. The Golden Bronze finish and slim, Low-Level design give it a stylish, up-to-date appearance. Cushioned mounting permits quiet operation. Pre-wiring and pre-punched mounting holes make installation quick and easy.

Long life and hazard-free operation are guaranteed by the exclusive protection of the patented Electromode Safety-Grid and the heavy gauge steel construction. A thermal limit switch provides temperature control and protection along the entire length of the baseboard. Automatically cuts off service to the heater in event air flow is blocked at any point from any cause.

Cat. No.	Model No.	Length In.	Watts	Volts	BTU	Each
Deluxe 8800 Series						
8800	BB-5	36	500	120	1707	\$20.31
8800-A	BB-5	36	500	240	1707	20.31
8800-B	BB-5	36	500	208	1707	20.31
8800-C	BB-7	52	750	120	2560	25.74
8800-D	BB-7	52	750	240	2560	25.74
8800-E	BB-7	52	750	208	2560	25.74
8800-F	BB-10	68	1000	120	3415	33.61
8800-G	BB-10	68	1000	240	3415	33.61
8800-H	BB-10	68	1000	208	3415	33.61
8800-J	BB-15	100	1500	120	5120	44.76
8800-K	BB-15	100	1500	240	5120	44.76
8800-L	BB-15	100	1500	208	5120	44.76
8800-M	BB-5	36	500	277	1707	20.31
8800-N	BB-7	52	750	277	2560	25.74
8800-P	BB-10	68	1000	277	3415	33.61
8800-Q	BB-15	100	1500	277	5120	44.76

8810 Series						
8810	BB-6	36	650	120	2219	22.45
8810-A	BB-6	36	650	240	2219	22.45
8810-B	BB-6	36	650	208	2219	22.45
8810-C	BB-10	52	1000	120	3415	27.89
8810-D	BB-10	52	1000	240	3415	27.89
8810-E	BB-10	52	1000	208	3415	27.89
8810-F	BB-13	68	1300	120	4485	35.75
8810-G	BB-13	68	1300	240	4485	35.75
8810-H	BB-13	68	1300	208	4485	35.75
8810-J	BB-20	100	2000	120	6830	46.90
8810-K	BB-20	100	2000	240	6830	46.90
8810-L	BB-20	100	2000	208	6830	46.90
8810-M	BB-6	36	650	277	2219	22.45
8810-N	BB-10	52	1000	277	3415	27.89
8810-P	BB-13	68	1300	277	4485	35.75
8810-Q	BB-20	100	2000	277	6830	46.90

Size: 6" High, 2 3/8" deep.

MODEL PB-10 SLIMLINE PORTABLE HEATER



Cat. No.	Model No.	Watts	Volts	BTU	Wt. Lbs.	Each
8799	PB-10	1000	120	3415	12	\$22.88

DOWN-FLO WALL HEATERS

Recessed Model



For large rooms, foyers, entrances and other areas requiring electric heaters in the 1.5 to 4 kilowatt range.

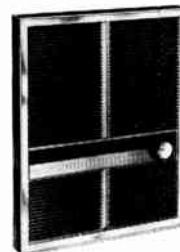
Has exclusive cast aluminum heating grid, precision hydraulic action thermostat, fan delay switch and thermal limit safety switch.

The "Down-Flo" principle of warm air circulation results in a more uniform, comfortable temperature throughout a room or area without drafts.

Charcoal Brown and brushed satin aluminum finish. Heavy gauge steel construction.

Cat. No.	Model No.	Watts	Volts	BTU	Shpg. Wt. Lbs.	Each
Manual Control						
4990	W-15	1500	120	5122	16	\$45.76
4990-A	W-15	1500	240	5122	16	45.76
4990-F	W-20	2000	240	6830	16	48.62
4990-H	W-30	3000	240	10245	29	56.49
4990-R	W-40	4000	240	13660	29	62.92
Automatic Control						
4990-S	WA-15	1500	120	5122	16	52.20
4990-T	WA-15	1500	240	5122	16	52.20
4990-M	WA-20	2000	240	6830	16	55.06
4990-N	WA-30	3000	240	10245	29	69.36
4990-W	WA-40	4000	240	13660	29	75.79

WALL MODEL ELECTRIC BATHROOM HEATERS



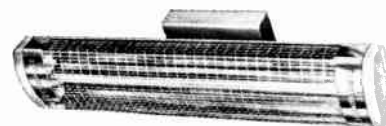
Frame assembly is finished in Satin Anodized Aluminum. Comes fully equipped including terminal block. Whisper quiet fan circulates ample warmth throughout any standard bathroom area in an instant.

Motor is equipped with oil impregnated bronze bearings. Exclusive Aluminum Heat Grid provides basic source of heat.

Wall box opening: 14 3/8" high, 11 1/4" wide, 3 3/4" deep. Front Plate: 16 1/4" high, 13" wide, extends 1 3/8" from wall.

Cat. No.	Model No.	Watts	Volts	BTU	Shpg. Wt. Lbs.	Each
Manual Control						
8750	WJ-12	1250	120	4269	13	\$28.60
Automatic Control						
8751	WJA-12	1250	120	4269	13	30.75

QUARTZONE SMALL ROOM HEATERS

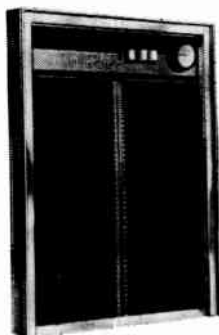


For spot heating of small areas. Can be mounted on either the ceiling or wall. When wall mounted, it tilts to a 20° angle for directing warmth where wanted. Polished chrome reflector plate and chrome guard. Easy to install.

Size: 24" long, 5" wide, 6" high. Chrome beige finish.

Cat. No.	Model No.	Watts	Volts	BTU	Shpg. Wt. Lbs.	Each
Manual Control						
8345	RJ-8	800	120	2730	5	\$22.17
8345-A	RJ-8	800	240	2730	5	22.17

ELECTROMODE HEATING



WALL MODEL HEAVY DUTY SMALL ROOM HEATERS

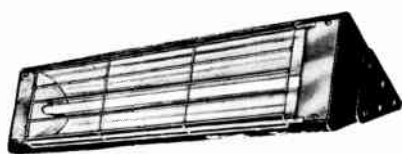
Wall box opening: 14³/₈" high, 11¹/₄" wide, 3³/₄" deep.

Front plate: 16¹/₄" high, 13" wide, extends 1⁵/₈" from wall.

Finish: Polished Satin Aluminum.

Cat. No.	Model No.	Watts	Volts	BTU	Shpg. Wt.	Each
Manual Control						
8755	WJ-12	1250	120	4269	15	\$34.32
8755-A	WJ-12	1250	240	4269	15	35.04
8755-B	WJ-12	1250	208	4269	15	35.04
Automatic Control						
8756	WJA-12	1250	120	4269	15	43.62
8756-A	WJA-12	1250	240	4269	15	44.33
8756-B	WJA-12	1250	208	4269	15	44.33

QUARTZONE TUBE ELECTRIC HEATERS



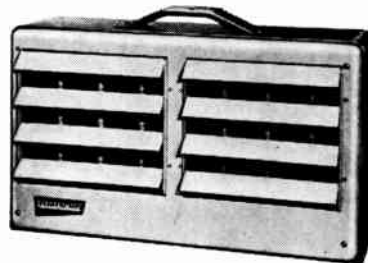
Controlled, economical area heating indoors or outdoors. Designed so that the infra-red rays emitted from the Quartzzone Tube may be directed to a specific area. Has great utility in industry for keeping people warm in exposed areas. Also used for spot heating, drying, food warming. This heater can be controlled by simple on-off switch, time switch or thermostat.

Made with a louvered, weatherproof housing, bonderized and finished in golden-bronze. The inside of the heater is finished with highly reflective aluminum, and is designed to direct rays over a rectangular area. The heaters are supplied with universal brackets for chain suspension or for bolting to ceiling and wall brackets. Heater is equipped with a chrome plated guard, easily removed for cleaning.

Cat. No.	Model No.	Watts	Volts	Shpg. Wt. Lbs.	Each	Replacement Tube No.
36" Long						
8350	RT-10	1000	120	13	\$32.86	8365-A
8350-A	RT-10	1000	240	13	32.86	8365-B
8350-B	RT-10	1000	208	13	32.86	8365-H
8351	RT-15	1500	120	13	34.29	8365-C
8351-A	RT-15	1500	240	13	34.29	8365-D
8351-B	RT-15	1500	208	13	34.29	8365-J
8352-A	RT-20	2000	240	13	35.72	8365-E
8352-B	RT-20	2000	208	13	35.72	8365-K
8352-C	RT-20	2000	480	13	35.72	8365-N
61" Long						
8353-A	RT-30	3000	240	18	46.44	8366-A
8353-B	RT-30	3000	208	18	46.44	8366-E
8353-C	RT-30	3000	480	18	46.44	8366-J
8354-A	RT-40	4000	240	18	50.02	8366-B
8354-B	RT-40	4000	208	18	50.02	8366-F
8354-C	RT-40	4000	480	18	50.02	8366-K

All heaters 6³/₄" wide by 5" high.

COMMERCIAL AND INDUSTRIAL ELECTRIC HEATERS



Model CI-10A



Model CI-5A

Electromode has combined the powerful output of an industrial heater with the handsome styling of their modern domestic line. Provide ample warmth for stores, gas stations, offices, etc. where the heating system is in view of the public.

Adjustable deflectors permit directing the fan driven heat where desired. Does not blow cool air during initial operation. Quiet operation. Built-in thermostat. Finish: Golden Bronze.

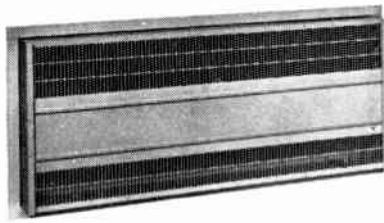
Model CI-5A—This 5KW model is designed to be suspended on a swivel-type bracket. Has rubber bumpers on base and can be used as a portable with the addition of a suitable cord and plug. Size: 9" deep, 15¹/₂" wide, 17¹/₂" high.

Model CI-10A—This 10KW model is basically two 5 kilowatt units fixed side by side, each retaining its thermostat control. Size: 9" deep, 29" wide, 17¹/₂" high.

Cat. No.	Model No.	Volts	CFM	Air Temp. Rise	Shpg. Wt. Lbs.	Each
5 KW, 17,075 BTU						
Automatic Thermostat Model						
8500	CI-5-A	240	400	40°	32	\$76.25
8500-V	CI-5-A	208	375	42°	32	76.25
8501	CI-5-A	240	400	40°	32	76.25
8501-V	CI-5-A	208	375	42°	32	76.25
Non-Automatic Model						
8502	CI-5	240	400	40°	32	65.63
8502-V	CI-5	208	375	42°	32	65.63
8503	CI-5	240	400	40°	32	65.63
8503-V	CI-5	208	375	42°	32	65.63
10KW, 34,150 BTU						
Automatic Thermostat Model						
8510	CI-10-A	240	800	40°	63	150.94
8510-V	CI-10-A	208	750	42°	63	150.94
8511	CI-10-A	240	800	40°	63	150.94
8511-V	CI-10-A	208	750	42°	63	150.94
Non-Automatic Model						
8512	CI-10	240	800	40°	63	124.69
8512-V	CI-10	208	750	42°	63	124.69
8513	CI-10	240	800	40°	63	124.69
8513-V	CI-10	208	750	42°	63	124.69

WESIX ELECTRIC HEATERS

CABINET CONVECTORS (Types CC & SCC)



Type CC

Totally enclosed element and unusually low surface temperatures. Surface-mount or semi-recess. Driftwood finish. For commercial, institutional or industrial use. Special non-tamper covers and thermostats available.

Cat. No.	Watts	Standard	w/Thermostat		w/Relay
		208,240,480V	208,240V	480V	208,240,480V
10SCC	1000	\$32.69	\$49.94	\$61.88	\$52.25
15SCC	1500	45.44	62.69	79.50	65.00
20SCC	2000	56.19	73.44	90.50	75.75

Dimensions: Length 10SCC—24", 15SCC—36", 20SCC—48"
Height 19½", Depth 3¾".

Not available in 3Ø.

Cat. No.	Watts	Standard*	w/Thermostat	
		208,240,480V	208,240,1Ø	208,240,480,3Ø
20CC	2000	\$52.50	\$69.75	\$88.71
30CC	3000	74.06	91.31	110.83
40CC	4000	94.50	111.75	131.79

Dimensions: Length 20CC—24", 30CC—36", 40CC—48".
Height 19½", Depth 6¾".

*Available in 1 or 3Ø.

Factory-Installed Options:

Suffix L — Overtemperature protection (not available 480v or 3Ø).

Suffix T — Built-In Thermostat, key operated through 480v.

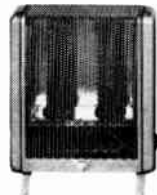
Suffix R — Zone Control Relay for external 120v. control available in 208, 240, 480v, 1Ø and 3Ø.

Trim Frame available for semi-recess.

Please call your local Graybar office for installed option pricing.

AUTOMATIC PORTABLE HEATERS (Type RPB)

Famous "electric chimney" elements provide well-balanced radiant convection heat with extra dependability and no maintenance. Sensitive built-in thermostat.



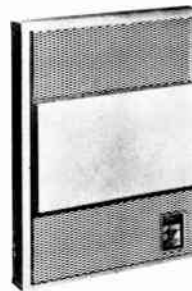
Cat. No.	Wattage	Length	Overall	Height	Each
			Height		
15RPB	1500	12½"	18"	18"	\$31.03
20RPB	2000	16"	18"	18"	35.01
30RPB	3000	16"	18"	18"	35.01
30RPB-3	3000	22"	18"	18"	40.52
40RPB	4000	22"	18"	18"	40.71
40RPB-4	4000	27½"	18"	18"	48.99
48RPB	4800	27½"	18"	18"	48.99

Voltages: 240 (120 or 240 on 15RPB).

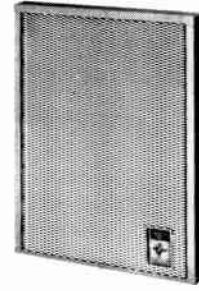
30RPB available with 2 or 3 elements (30RPB-3).

40RPB available with 3 or 4 elements (40RPB-4).

3-wire cord and cap set through 4 kw. 3-wire cord only over 4 kw.



Type RWC



Type RW

RW RADIANT CONVECTOR

Element is visible through grille for direct radiation — approximately 15% of heater output.

RWC CONVECTOR

Baffled grille covers radiant component for approximately 100% convection and allows close furniture placement.

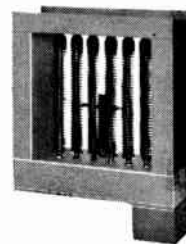
Cat. No.	Wattage	Wall Opening		Each
		Width	Height	
10RW	1000	9½"	20¼"	\$23.80
15RW	1500	9½"	20¼"	23.80
20RW	2000	14"	20¼"	28.39
25RW	2500	14"	20¼"	28.39
30RW	3000	14"	20¼"	28.39
40RW	4000	22¼"	20¼"	35.15
50RW	5000	28¾"	20¼"	53.11
10RWC	1000	9½"	20¼"	30.66
12RWC	1250	9½"	20¼"	30.66
20RWC	2000	14"	20¼"	35.29
30RWC	3000	22¼"	20¼"	43.39
40RWC	4000	28¾"	20¼"	50.61

Voltages available: 120, 208, 240.

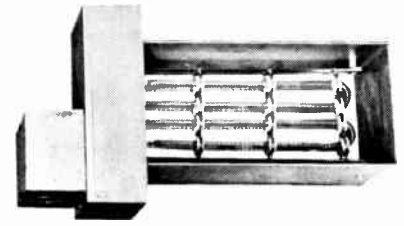
Recessed box depth 3½".

Accessory: SJ Surface Jacket 5¾" deep.

DUCT HEATERS — OPEN OR CLOSED ELEMENTS



Closed-Coll Elements Type S



Open-Coiled Elements Type C

Minimum 400 fpm face velocity required. Maximum wattage rating 10KW/sq. ft. of duct area. Multiple circuit heaters available in both flange and insert types.

Example Sizes and Prices — Flange Type

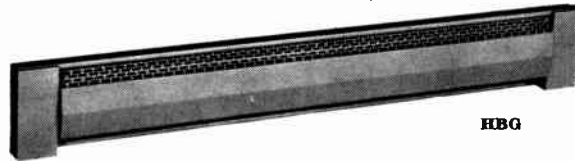
Enclosed Element				Open-Coiled Element			
Max KW	Type	Duct Size		Max KW	Type	Duct Size	
		A	B			A	B
2	SF	8	4	2	CF	8	4
5	SF	12	6	5	CF	12	6
10	SF	12	12	10	CF	12	12
15	SF	18	12	15	CF	18	12
20	SF	24	12	20	CF	24	12
140	SF	42	48	140	CF	42	48

Catalog Designation:

- Elements S (spiral wound fin)
- C (coiled exposed resistance element)
- Housings F (flange housing)
- D (insert housing)

Price on Application

WESIX ELECTRIC HEATERS BASEBOARD HEATERS (HBG Series)



HBG

Easy 3½-minute installation! Special mounting brackets fasten to wall—automatically locate proper height for heater. Baseboard slips onto the brackets without disassem-

bly. Aluminum fin element assures silent operation. Pale beige finish is factory-baked and can be painted. Over-temperature protection and ten-year element warranty.

Standard			Low Density			Length	Each
Cat. No.	Wattage	Voltage	Cat. No.	Wattage	Voltage		
5HBG2	500	120, 208, 240, 277	4HBG2	375	208, 240	2'6"	\$12.82
7HBG2	700	120, 208, 240, 277	5HBG2	500	208, 240	2'6"	14.23
10HBG4	1000	120, 208, 240, 277	8HBG4	750	208, 240	4'	16.02
15HBG6	1500	120, 208, 240, 277	11HBG6	1125	208, 240	6'	21.79
20HBG8	2000	208, 240, 277	15HBG8	1500	208, 240	8'	25.64
25HBG10	2500	208, 240, 277	19HBG10	1875	208, 240	10'	30.77
30HBG10	3000	208, 240, 277	22HBG10	2250	208, 240	10'	32.05

Depth 2½". Height 7". Trim Strip available upon request without charge. Please specify voltage when ordering.

Accessories and Baseboard Thermostats

Wide accessory selection assures adaptation to any requirement. Six different integral thermostats. Filler sections

available for exact length desired. Air conditioning receptacle and switch accessory also available.

Baseboard Thermostats

Cat. No.	Poles	Watts	Volts	Amps	Dif.	Each
HBT-1	SP	6000	240	25	±1°F	\$6.41
HBT-2	DP	6000	240	25	±1°F	7.83

Accessories

Cat. No.	Each
HBAP	Wall Thermostat Adapter Plate (adapts standard wall thermostat to baseboard).....\$.96

Cat. No.	Each
HBC	Corner Cover (covers space where heaters meet).....\$.71
HBR	Duplex Receptacle Plate (plate only)..... .96
HBAC	Air Conditioning Transfer (includes switch and receptacle) 10.58
HBRA	Low Voltage Relay Assembly
	Plate and relay with transformer..... 9.65
	Plate and relay only..... 8.30

FAN FLOOR DROP-IN (Type FPC)

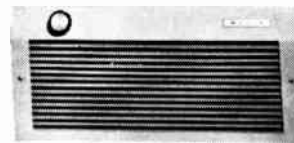


Big heat capacity — 2000, 1500 and 1000 watts — yet only 14" long! All versions are 14¼" long, 5½" wide, 8" deep. Special low velocity fan gives ideal circulation with no noise. Disposable filter traps dust and lint. Available with or without built-in positive off thermostat.

Wattage	Voltage	Standard		w/Thermostat	
		Cat. No.	Each	Cat. No.	Each
1000	120,208,240	10FPC	\$30.45	10FPCT	\$34.30
1500	208,240	15FPC	31.75	15FPCT	35.60
2000	208,240	20FPC	33.00	20FPCT	36.85

For built-in thermostat, add suffix T. Overtemperature protected.

WALL INSERT WITH FAN (Type DH)



Exceptionally compact fan wall heater fits into standard 2x4 stud walls. Big heat capacity despite size — 3000, 2000 and 1500 watts. Available with or without positive off thermostat. Very quiet operation.

Wattage	Voltage	Standard		w/Thermostat	
		Cat. No.	Each	Cat. No.	Each
1500	120,208,240	15DH	\$25.60	15DHT	\$30.70
2000	208,240	20DH	28.15	20DHT	33.30
3000	208,240	30DH	33.30	30DHT	37.10

Dimensions: 14¼" L, 6" W, 4" D. Grille 15"x7". For built-in thermostat, add Suffix "T". Overtemperature protected.

EASY-HEAT

**SERIES "G" FIBER MESH
ELECTRIC HEAT MATS**

For Snow Melting From Asphalt and Concrete



Completely grounded and insulated heating wire bonded to fiberglass mesh. Two 10' grounded cold leads attached. Longer leads available. All heat mats 18" wide.

Cat. No.	Lgth. Ft.	Total Watts 240V 277V 480V	(2) 208V Derated 240V Mat Total Watts	Each
40 Watts Per Square Foot 30W/Sq. Ft.				
G 5x18-()-40	5	300	225	\$11.31
G10x18-()-40	10	600	450	13.97
G20x18-()-40	20	1200	900	25.98
G40x18-()-40	40	2400	1800	39.32
60 Watts Per Square Foot 45W/Sq. Ft.				
G 5x18-()-60	5	450	337	11.97
G10x18-()-60	10	900	675	14.64
G20x18-()-60	20	1800	1350	26.65
G40x18-()-60	40	3600	2700	49.32
75 Watts Per Square Foot 56W/Sq. Ft.				
G 5x18-()-75	5	563	423	12.64
G10x18-()-75	10	1125	844	16.64
G20x18-()-75	20	2250	1690	29.98
G40x18-()-75	40	4500	3380	57.33

ORDERING INSTRUCTIONS: Catalog number must show voltage designation () as listed for each voltage — (2) 208V. and 240V., (7) 277V., (4) 480V.

AUTOMATIC SNOW MELTING CONTROL



Automatic switch designed to detect first few flakes of snowfall and automatically turn on Sno-Melter electric heating mats. When snow has stopped falling and ice and snow have been completely melted, the Automatic Switch turns off electricity and the heating units remain off until more snow or freezing rain begins to fall.

Requires 24 volt 45 VA power supply for operation.

Cat. No.	Description	Each
EZ-AS-1	Sno-Melter Automatic Switch less transformer	\$98.11
EX-PS3-2	Power Contactor 120 amps. 240V. AC with built-in 24V. 100VA transformer and external auto-off-on selector switch and pilot light	69.38

ELECTRIC HEAT BANDS

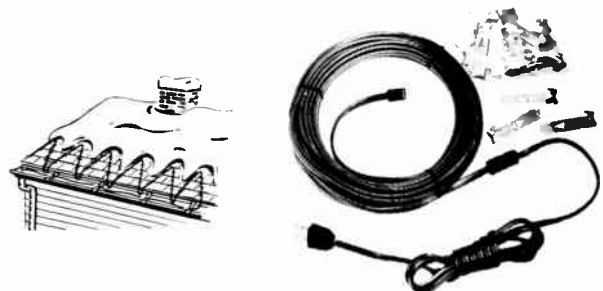


Moisture proof vinyl band with heater wire each side spaced 1/2" apart in separate insulated channels. AB and B models with 12" cold lead and plug. AU' and U' with 5' leads and stripped ends. All for 120 or 240 volts. AB and AU include thermostats. AU' and U' models U.L. listed.

Catalog No. & Size	Protects Pipe	Watts	Each
Automatic with Thermostat			
EZ-AB 6'N	3' to 6'	42	\$4.30
EZ-AB12'N	9' to 12'	84	4.80
EZ-AB18'N	15' to 18'	126	5.20
EZ-AB24'N	18' to 24'	168	5.74
Non-Automatic			
EZ-B 6'N	3' to 6'	42	1.67
EZ-B12'N	9' to 12'	84	2.17
EZ-B18'N	15' to 18'	126	2.57
EZ-B24'N	18' to 24'	168	3.10
EZ-I	Outer Wrap Insulation 19' roll		each \$0.20
EZ-P	Fiberglass Insulation with 20' outer wrap		each .65

Catalog No. & Size	Lgth. Ft.	Watts	Each
Automatic with Thermostat			
EZ-AU 6'	6	42	\$5.94
EZ-AU12'	12	84	6.60
EZ-AU18'	18	126	7.27
EZ-AU30'	30	210	8.60
Non-Automatic			
EZ-U 6'	6	42	3.30
EZ-U12'	12	84	3.97
EZ-U18'	18	126	4.64
EZ-U30'	30	210	5.97

ROOF CABLE KITS



Resistance heating units melt ice from roof, gutters, downspouts. 120 and 240 volts.

120 Volt Units

Catalog No. & Size	Watts	Sgl. Clips	Cable Links	Each
EZ-CK 20'	140	15	5	\$ 3.50
EZ-CK 30'	210	23	8	4.30
EZ-CK 40'	280	30	10	5.64
EZ-CK 60'	420	45	15	7.90
EZ-CK 80'	560	60	20	10.17
EZ-CK100'	700	75	25	12.44

EASY-HEAT

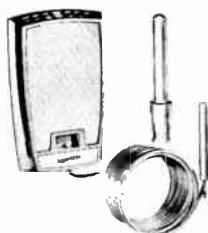
CONCRETE FLOOR HEAT MATS



U.L. listed. Heater wire bonded to fiberglass mesh, spaced for units of 10 w/sq. ft. or 20 w/sq. ft. Two 10' cold leads. All units 16" wide.
120, 208, 240 volts.

Cat. No.	Lgth. Ft.	Total Watts	Each
120 Volt — 10 Watts/Sq. Ft.			
EZ-FM120L	15	200	\$ 8.00
EZ-FM-130L	23	300	10.00
EZ-FM-140L	30	400	12.00
EZ-FM-150L	38	500	14.33
EZ-FM-160L	45	600	16.67
EZ-FM-180L	60	800	21.33
EZ-FM-190L	68	900	23.33
EZ-FM-1100L	75	1000	25.33
240 Volt — 20 Watts/Sq. Ft.			
EZ-FM240	15	400	9.30
EZ-FM260	23	600	12.31
EZ-FM280	30	800	15.31
EZ-FM2100	38	1000	18.31
EZ-FM2120	45	1200	21.31
EZ-FM2160	60	1600	27.98
EZ-FM2180	68	1800	30.65
EZ-FM2200	75	2000	33.32

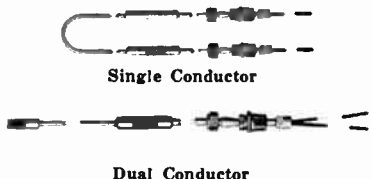
SERIES EZ-FS FLOOR HEAT THERMOSTATS



Rated 5000 watts (nom.) on 240V. or 277V. and 2500 watts (nom.) on 120V. 5 1/8" x 3 1/8" x 1 1/8". Housing color is Tawny silver, face plate is satin aluminum. Temperature range: 40° F. to 115° F. U.L. listed.

Cat. No.	Sgl. Pole Each	Capillary Lgth. Ft.	Dbl. Pole Cat. No.	Each
EZ-FS-6S	\$14.36	6	EZ-FS-6D	\$15.96
EZ-FS-10S	15.96	10	EZ-FS-10D	18.36
EZ-FS-20S	20.77	20	EZ-FS-20D	22.36

MINERAL INSULATED HEATING CABLE FOR SNOW MELTING AND PIPE TRACING



Over 1000 standard lengths, voltages and wattages.

Contact your local Graybar office for a complete list and pricing.

SERIES "D" ELECTRIC WIRE MESH SNO-MELTER HEAT MATS



For Concrete

Completely grounded and insulated heating wire anchored to steel mesh. Two completely grounded 10' cold leads — longer lengths available. Order by square foot — 90' max. length in 6" increments, 6' max. width in 4" increments, 8" minimum.

All Prices Per Sq. Foot

Ft. 2 Area	Style A	Each Style B	Style C & D
20 to 42 Watts Per Sq. Foot			
4- 5	\$2.95	\$ ---	\$ ---
6-12	1.87	2.20	2.54
13-18	1.29	1.63	1.96
19-45	1.17	1.51	1.84
46-Up	1.09	1.43	1.76
43 to 56 Watts Per Sq. Foot			
4- 5	3.01	---	---
6-12	1.96	2.29	2.62
13-18	1.35	1.68	2.02
19-45	1.21	1.55	1.88
46-Up	1.16	1.49	1.82
57 to 75 Watts Per Sq. Foot			
4- 5	3.22	---	---
6-12	2.17	2.50	2.84
13-18	1.56	1.90	2.23
19-45	1.45	1.79	2.18
46-Up	1.37	1.70	2.04

Price and Order Procedure: To determine mat area for pricing, use longest length and width dimensions. Prices apply to each individual unit and style. Unit areas are not to be combined for pricing.

1. Specify style A, B, C, or D. If other than Style A, enclose sketch showing all dimensions for L, W & N as indicated on drawings below.

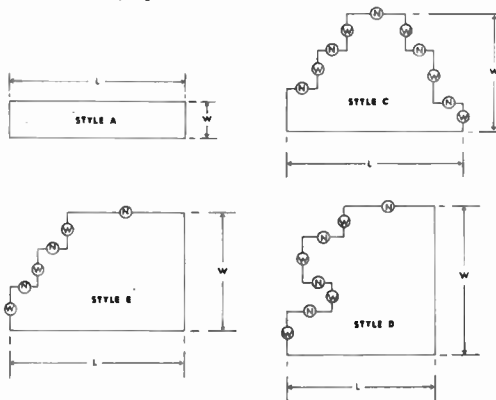
2. Assign a part number for all mats as shown below. Use longest length and width dimensions.

Typical Part Number: 20-D-24-2-56 (N)

20- Length in Feet
D- Series "D" Mat
24- Width in Inches
N- For Notched Mats only

Volt Designation: 1 — 120V., 8 — 208V., 2 — 240V., 7 — 277V., 4 — 480V.

Maximum 20 amps per mat.



WIRE MESH HEAT MATS FOR STEPS

Cat. No.	Steps	Tread Size	Watts	Each
DS-2-3-()42	2	3' x 8"	168	\$13.30
DS-3-3-()42	3	3' x 8"	252	17.30
DS-2-3-()56	2	3' x 8"	224	13.30
DS-3-3-()56	3	3' x 8"	336	17.30

Volt Designation for Cat. No.: (1) 120V., (8) 208V., (2) 240V., (7) 277V., (4) 480V.

FEDERAL PACIFIC ELECTRIC HEATERS

All FPE heaters are built with the contractor, as well as the ultimate user, in mind. Ease of installation that saves the contractor both time and money is a major feature in all FPE heaters.

BASEBOARD HEATERS



Save 25% on installation costs. Mount baseboards without expensive disassembly time. Work within a 50% larger terminal box. Has 15% more fin area for even cooler operation. Floating suspension and nylon "silencers" bushings allow expansion and contraction of heating unit without metal stress. Reduces noise, eliminates call backs.

240V.

Cat. No.	Lgth. Ft.	BTU/Hr. Output	Watts	Ctn. Wt. Lbs.	Each
B205	2	1706	500	8	\$15.00
B307	3	2559	750	12	18.40
B410	4	3412	1000	16	21.50
B512	5	4265	1250	20	25.20
B615	6	5118	1500	24	29.40
B820	8	6824	2000	32	35.50
B1025	10	8530	2500	40	42.30
B203	2	1280	375	8	15.00
B305	3	1876	550	12	18.40
B407	4	2559	750	16	21.50
B509	5	3070	900	20	25.20
B611	6	3838	1125	24	29.40
B815	8	5118	1500	32	35.50
B1018	10	6398	1875	40	42.30

Also available in 120, 208 and 277 volt. Elements are guaranteed for life of buildings. Full details available upon request.

HEAVY DUTY BASEBOARD HEATERS



Extra heavy 18 ga. construction to withstand rough usage expected in areas such as factories, theaters, restaurants and churches.

240V.

Cat. No.	Watts	Lgth. In.	BTU	Ctn. Wt. Lbs.	Each
HB3606	600	36	2049	14	\$23.10
HB4207	750	42	2561	16	25.40
HB5410	1000	54	3415	21	28.00
HB6012	1200	60	4098	23	31.70
HB7815	1500	78	5123	30	36.70
HB9620	2000	96	6830	37	44.40
HB4206	600	42	2049	16	25.40
HB6010	1000	60	3415	23	31.70
HB7812	1200	78	4098	30	36.70
HB9615	1500	96	5123	37	44.40

Also available in 120, 208 and 277 volt.

HEAVY DUTY FORCED AIR WALL HEATERS



Fan driven forced air heaters warm large areas quickly. Excellent for heating playrooms, hallways, entrance foyers, executive offices and stores.

240V.

Cat. No.	Watts	BTU/Hr. Output	Ctn. Wt. Lbs.	Each
FA1500	1500	5118	32	\$42.75
FA2000	2000	6824	32	45.35
FA3000	3000	10240	36	51.85
FA4000	4000	13660	36	53.80

Also available in 208 and 277 volt.

UNIT SUSPENSION HEATERS



Mounted easily from ceiling or wall, these heaters were developed for large indoor areas such as lobbies, auto showrooms, supermarkets, service stations and factory areas.

240V. Cat. No.

	KW	BTU/Hr.	Amps.	Approx. Wt. Lbs.	Each
Single Phase Heaters					
US2413	3	10245	12.5	23	\$56.30
US2414	4	13660	16.7	23	58.80
US2415	5	17075	20.8	23	61.30
Three Phase Heaters					
US2436	6	20490	14.4	38	97.50
US2438	8	27320	19.3	40	112.50
US2439	9	30735	21.6	40	118.80
US24310	10	34150	24.9	41	130.00
US24312	12	40980	29.7	42	135.00
US24315	15	51225	36.0	116	232.50
US24320	20	68300	49.5	122	268.00

Also most models available in 208 and 480 volt. 6 through 20 KW heaters include built-in contractors.

INFRARED LAMP HEATERS



Infrared rays, like the rays of the sun, do not heat the air through which they pass. Instead, infrared rays warm only the objects that absorb them. This makes infrared lamp heaters ideal for heating high ceiling factories or for outdoor use where conventional heating is impracticable or too costly.

240V. Cat. No.

	Watts	Amps.	Beam Spread Degrees	Each*
IQL1690	1600	6.67	90	\$26.90
IQL322590	3200	13.33	90	39.50
OQL322590	3200	13.33	90	48.60

*Fixture only.

Also some models available in 208 and 480 volt. All models available in 60° beam spread and 60° asymmetric beam spread.

DELUXE ELECTRIC HEATING THERMOSTATS



Attractive gold finish thermostats are extra-sensitive in detecting ambient temperatures. The temperature differential insures this. These controls are designed to prevent wasteful, uncomfortable over-heating and eliminate chilling heat drops. Control range is 55°-85° F.

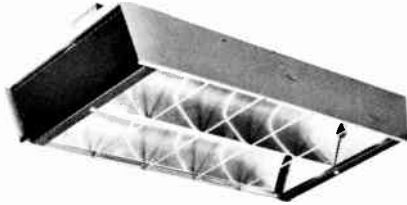
Cat. No.

	Terminals	Temp. Differential At Full Load	Each
Single Pole			
TW1	Screw	1/2° F.	\$5.60
TW1L	Wire Leads	1/2° F.	5.60
Double Pole			
TW2	Screw	1° F.	6.60
TW2L	Wire Leads	1° F.	6.60

**LUMINATOR
ELECTRIC INFRARED HEATERS**

For use with two Type T3/7 tubular infrared quartz lamps. UL listed.

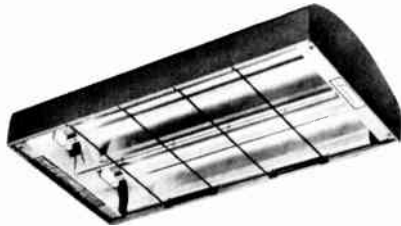
FOR INDOOR INSTALLATION



20 ga. steel housing. Aluminum one-piece 18 ga. anodized reflector. Uses push-pull type lamp and sockets. Top wireway channel furnished and mounted first. Unit easily hooks into place; wire connections made and unit then swung into final position. Louvers available.

Cat. No.	Reflector	Watts	Volts	Lgth. In.	Each**
LH870	90°	1000	120	13	\$42.15
LH880	60°	1000	120	13	42.15
LH890	60°*	1000	120	13	42.15
LH876	90°	5KW	480	33	70.80
LH886	60°	5KW	480	33	70.80
LH896	60°*	5KW	480	33	70.80
LH878	90°	2500 & 3200	208-600 ‡	....	54.60
LH888	60°	2500 & 3200	208-600 ‡	....	54.60
LH898	60°*	2500 & 3200	208-600 ‡	....	54.60

FOR OUTDOOR INSTALLATIONS



All-aluminum. Beige hammertone, baked-on. Uses push-pull type lamp and sockets. One-piece reflector. Louvers available.

Cat. No.	Reflector	Watts	Volts	Lgth. In.	Each**
LH740	90°	1000	120	11	\$47.15
LH750	60°	1000	120	11	47.15
LH760	60°*	1000	120	11	47.15
LH746	90°	5KW	480	31	82.05
LH756	60°	5KW	480	31	82.05
LH766	60°*	5KW	480	31	82.05
LH748	90°	2500 & 3200	208-600 ‡	....	57.15
LH758	60°	2500 & 3200	208-600 ‡	....	57.15
LH768	60°*	2500 & 3200	208-600 ‡	....	57.15

RECESSED UNITS



UL approved kit consisting of outdoor fixture plus frame plus box. Accepted by all local codes for recessed installations in marquees, etc.

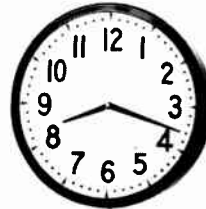
Cat. No.	Reflector	Watts	Volts	Lgth. In.	Each**
LH848	90°	3200	208/240	27 3/4	\$92.10
LH858	60°	3200	208/240	27 3/4	92.10
LH868	60°*	3200	208/240	27 3/4	92.10

*Asymmetric. **Price includes lamps. Red filter lamps, red sleeves, special models, gold reflectors and 30° reflectors also available.

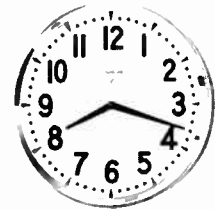
‡These models can operate at 208, 240, 277 and 600 volts.

**SUNBEAM
COMMERCIAL CLOCKS**

**FEATURING THE SUNBEAM
"UNITIZED MOTOR AND MOVEMENT
CONSTRUCTION"**



Brown
8" & 12"



Chrome
8" & 12"

Use 1/2 less wattage than other electric clocks. More efficient, lower cost operation. Contain fewer parts than other clock movements. This reduces the likelihood of failure — means longer life. Run cooler which preserves lubrication. Quieter operation — never disturbing sound.

Cat. No.	Finish	Size, In.		Each
		Dial	Case	
C080-CH	Chrome	8	9 1/2	\$9.09
C120-CH	Chrome	12	13 1/2	10.39
C080-BR	Brown	8	9 1/2	7.79
C120-BR	Brown	12	13 1/2	9.09

Specifications: Heavy gauge steel case, 1 1/2" deep. Wide angle vision. No-glare concave dial and crystal hugs wall. Convenient pendant set and current interruption indicator. Red and grey sweep second hand. White dial, black numerals and hands.

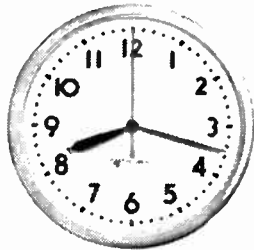
**GENERAL ELECTRIC
COMMERCE CLOCK**



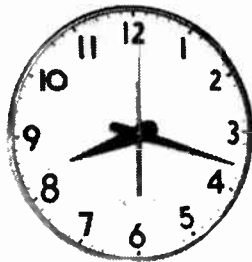
Easy reading clock for office, school, factory, and professional use. Convenient pendant set and red sweep second hand.

2912 BRN	Brown Case	\$ 9.09
2912 CHR	Chrome Color Case	10.39
Dial 11 5/8"	Diameter 14 1/2"	Depth 3 1/4"
Std. Pkg. 1	Shpg. Wt. Lbs. 5 1/4	

EDWARDS CLOCKS



Industrial-Commercial



Illuminated

Cat. No.	Description	Car-ton	Std. Pkg.	Each
Industrial-Commercial Round Clocks				
1880	8" Surface Mtg., Plug-In	5	10	\$ 9.15
1882	12" Surface Mtg., Plug In	5	10	10.60
Illuminated Round Clock				
2516-44	15" Surface Mtg., Plug In	1	2	27.75
Explosion-Proof Round Clocks				
2565-44	12" Surface Mtg., Alum.	1	2	168.00
Weather-Proof Clocks				
2016-44	15" Surface Mtg.	1	2	112.00
24-Hour Clock				
2006-44	15" Surface Mtg.	1	2	76.25
Small Panelboard Clocks				
2411-44	6" rd., Sat. Alum. Rim	1	2	.....

ALL-PURPOSE LINE



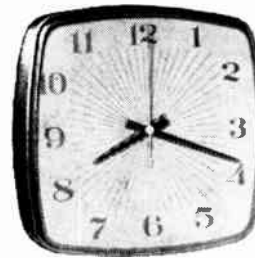
Round Shape



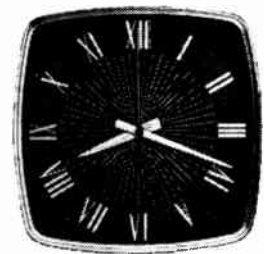
Contour Shape

Cat. No.	Description	Car-ton	Std. Pkg.	Price Each
Round Clocks				
2413-14	9" Flush Mtg.	1	2	\$22.35
2415-14	12" Flush Mtg.	1	2	23.90
2416-14	15" Flush Mtg.	1	2	30.00
2513-14	9" Surface Mtg.	2	4	22.35
2515-14	12" Surface Mtg.	2	4	23.90
2516-14	15" Surface Mtg.	1	2	27.75
Square Clocks				
2424-14	10" Flush Mtg.	1	2	23.90
2425-14	12" Flush Mtg.	1	2	25.40
2524-14	10" Surface Mtg.	2	4	24.65
2525-14	12" Surface Mtg.	2	4	26.20
Contour Clocks				
2434-14	10" Flush Mtg.	1	2	25.40
2435-14	12" Flush Mtg.	1	2	26.95
2534-14	10" Surface Mtg.	2	4	25.40
2535-14	12" Surface Mtg.	2	4	26.95

PRESTIGE LINE



Surface Mounted With White Face

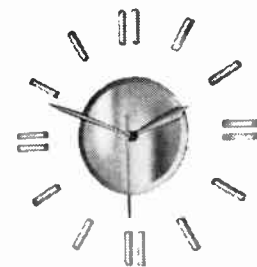


Surface Mounted With Black Face

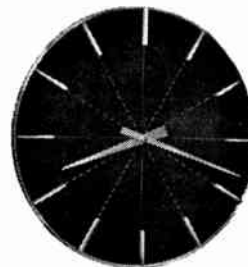
Contour Shape

Cat. No.	Description	Car-ton	Std. Pkg.	Each
Single-Motored — Black Face — Gold Roman Numerals				
2484-74	10" Flush Mtg.	1	2	\$36.95
2485-74	12" Flush Mtg.	1	2	43.10
2584-74	10" Surface Mtg.	1	2	36.95
2585-74	12" Surface Mtg.	1	2	43.10
Single-Motored — White Face — Gold Arabic Numerals				
2434-74	10" Flush Mtg.	1	2	36.95
2435-74	12" Flush Mtg.	1	2	43.10
2534-74	10" Surface Mtg.	1	2	36.95
2535-74	12" Surface Mtg.	1	2	43.10

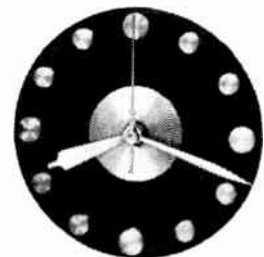
DECORATOR LINE



Decorator-Harmonic



Decorator-Charcoal



Decorator-Miniature

Cat. No.	Description	Each
Decorator-Ebony Self-Contained Skeleton Clock		
2075-64	12" sq. Alum. Numerals, Black Face	\$38.20
Decorator-Harmonic Skelton Clock		
2075-04	9-12", Copper*	12.70
Decorator-Charcoal AC Clock		
2475-04	12" rd., Brass w/Charcoal Face	43.75
2479-04	16" rd., Brass w/Charcoal Face	51.75
Decorator-Miniature Self-Contained Skeleton Clock		
2071-54	6" rd., Brass w/Black Face.....	12.70

*Available in Brass, Alum., Chrome, Black, Gold.

EDWARDS SIGNALING DEVICES



**RESIDENTIAL PUSHBUTTONS
FLUSH LINE**

Cat. No.	Style	Each
653	Hammered Antique	\$1.20

ECONOMY LINE

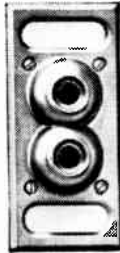
Exclusive patented piano-type action, the Keynote series is installed in less than a minute. Modern, thin design, molded plastic, will not rust. Numbers 634 and 635. Also, available in this Economy line are the traditional metal designs of rugged brass construction for long service. Numbers 600, 602, 603 and 607.



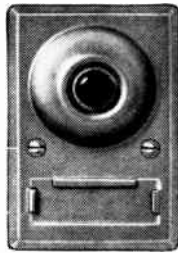
634



600



602



607

Cat. No.	Description	Each
600	Round — 2 1/8"	\$0.30
602	Oblong — 2 name	.66
603	Round — 1 3/4"	.28
607	Oblong — 1 name	.37
634	Brown — Ivory ctr.	.30
635	Ivory — Black ctr.	.30

LUSTRE-LINE

Nos. 638 and 639 rectangular with patented piano-key action. Snap-in cover, lifetime gold (638) or natural (639) anodized aluminum finish.

Cat. No.	Description	Each
638	White Center	\$0.55
639	Black Center	.55
700*	Nameplate, White center	1.00
701*	Nameplate lighted, White center	1.55
702*	Round, White center	.90
703*	Round lighted, White center	1.45
704*	Square, White Center	.90
705*	Square lighted, White center	1.45
706*	Octagonal, White center	.69

*Suffix "B" for lifetime gold or "C" for Natural anodized aluminum finish.

DELUXE LINE



656

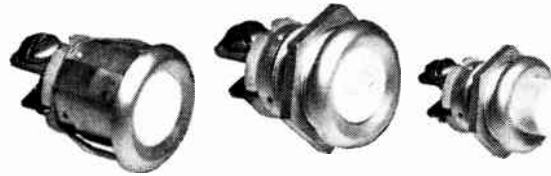
Beautiful deluxe buttons to enhance the beauty of any entrance, feature high quality, easy installation, and long life.

Cat. No.	Description	Each
656-1	Lighted, polished brass, 6-16V	\$1.28
656-2	Lighted, polished chrome, 6-16V	1.28

MINIATURE LINE

Cat. No.	Description	Each
620	Round, chrome, white ctr.	\$0.37
620B	Round, polished brass, white ctr.	.37
620-L	Round, lighted, chrome	.92
620-LB	Round, lighted, polished brass	.92

INDUSTRIAL PUSHBUTTONS



690-12

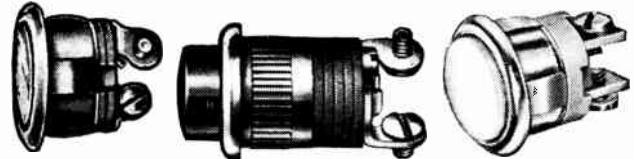
691-12

693-12

Edwards' new line of low-voltage (to 48 volts) pushbuttons is ideally suited to OEM and general industrial use. Rated 10 amps AC and DC at 12 and 24 volts, 5 amps AC, 2.5 amps DC at 48 volts. Available with three different center types, flush, recessed, and protruding, and either snap fit or locknut mounting for a 3/8" hole. Black or white centers with polished, anodized aluminum shells. Other colored centers available in contract quantities.

Cat. No.	Description	Each
690-12	Snap-fit, flush, white ctr.	\$0.80
692-12	Snap-fit, recessed, white ctr.	.80
694-11	Snap-fit, protruding, black ctr.	.80
694-12	Snap-fit, protruding, white ctr.	.80
691-12	Locknut, flush, white ctr.	.88
693-12	Locknut, recessed, white ctr.	.88
695-11	Locknut, protruding, black ctr.	.88
695-12	Locknut, protruding, white ctr.	.88

LOW VOLTAGE PUSHBUTTONS



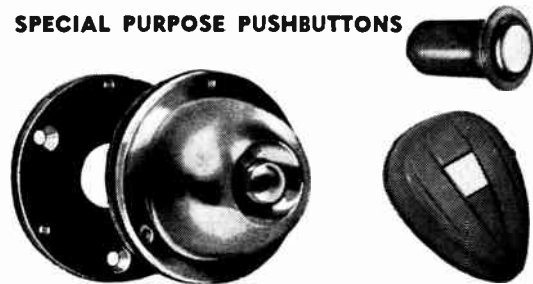
59

116

620

Cat. No.	Volts	Description		Each
		A.C. Amps	D.C. Amps	
59	12	8	8	\$0.82
	24	6	4	
	48	3	2	
116	12	10	10	1.50
	24	10	5	
	48	5	2.5	
620	6	--	2	.37
	8	2	--	
620B	24	.67	.50	.37
	48	.3	.3	

SPECIAL PURPOSE PUSHBUTTONS



1786-C

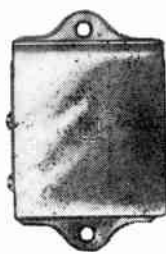
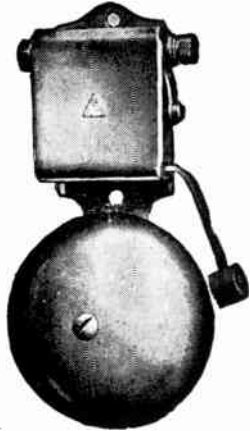
7610

Edwards' special purpose, low voltage (to 50 Volts) pushbuttons are available for many special applications.

Cat. No.	Type	Volts	AC Amps	DC Amps	Each
71	Pendant	8	2.0	5	\$1.04
		24	.67	2.0	
250	multiple circuit return	12	6.0	2.0	2.02
		48	2.0	.5	
1786	weather-proof	12	4.0	4.0	6.15
		24	4.0	2.0	
1786-C	weather-proof with conduit ring	48	2.0	1.0	8.40

EDWARDS SIGNALING DEVICES

LUNGEN LINE



115
Bells and buzzers; cadmium with chrome covers. Adjustable tone and volume. Number 115 AC, fully insulated. Concealed or surface wiring; Numbers 13 and 15 have insulated binding posts and

grounded frames. Specify rating when ordering.

Cat. No.	Volts	V.A.	Each
13-3	6 VDC	3.5	\$3.85
	8 VAC	3.5	3.85
	24 VAC	6.0	4.40
	24 VDC	6.0	4.40
15-1	6 VDC	2.0	2.70
	8 VAC	3.5	2.70
	24 VAC	6.0	3.10
	24 VDC	2.5	3.10
15-2	6 VDC	2.0	2.75
	8 VAC	2.5	2.75
	24 VAC	6.0	3.30
	24 VDC	3.5	3.30
15-3	6 VDC	2.0	2.90
	8 VAC	2.5	2.90
	24 VAC	6.0	3.40
	24 VDC	5.0	3.40
115-2	8 VAC	4.0	2.60
	24 VAC	5.0	2.75
115-4	8 VAC	4.0	3.75
	24 VAC	6.0	4.00

FLUSHCALL LINE



Flexible units combining bells, buzzers, and accessories for flush mounting in standard gang boxes for use with 991 and 993 flush transformers. Ideal for apartment houses, homes, offices, motels, and original equipment. Eliminates long wire runs and heavy duty transformers.

Cat. No.	Description	Volts	Each
660	Ringcall, bell	8	\$1.70
661	Buzacall, buzzer	8	1.62
662	Tucall, bell-buzzer	8	2.85
663	Melocall, bell	8	2.30
760	Ringcall, bell	24	2.20
761	Buzacall, buzzer	24	2.10
762	Tucall, bell-buzzer	24	3.15
763	Melocall, bell	24	2.80
664	Toggle Push, button		.54
991	Powacall, transformer	10	2.68
993	Powacall, transformer	16	3.05
1063	Flush Buzzer, U. L.	115	4.00

CONTACT DEVICES

Low Voltage Contactors

All purpose, to make or open contact on doors, windows, transoms, safes, burglar alarm system; 3/4" hole.

Cat. No. 44 — depressing opens contacts.

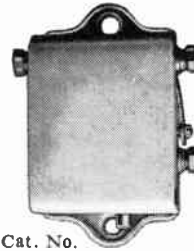
Cat. No. 45 — depressing closes contacts.

Cat. No. 46 — depressing makes, then breaks and repeats on return.

Low Voltage Door Trip Switch
Cat. No. 236—Non-insulated external mounting makes and breaks only as door opens.



CONSTANT RINGING DROP



Cat. No. 26 — When contact device energizes drop, contact remains closed until reset by hand, giving continuous alarm. 6-8 volts DC or 8-12 volts AC. Available up to 48V AC or DC.

Cat. No.	Description	Each
26	Constant Ringing Drop, 6V DC, 8-12V 60 cycle	\$5.60
26	24V DC, 24V, 60 cycle	8.00
44	Contactors	1.00
45	Contactors	1.00
46	Contactors	1.00
236	Door trip	2.40

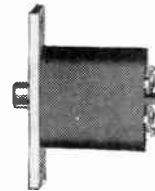
ACCESSORIES

Floor tread easily operated by foot for use beneath rugs and doormats. Is 1/4" high, and has non-sliding rubber base.



Cat. No.	Volts	Each
290	12, 24, 48	\$2.65

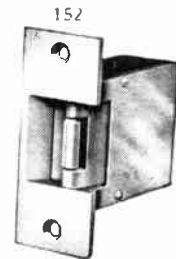
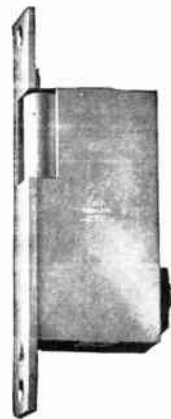
DOOR LIGHT SWITCH



Door light switch for operating step lights in vehicles. 2 1/2" x 1" face plate, mounting holes on 2 1/8" centers; bumper plate is 1 5/8" x 5/8" with mounting holes on 1 1/8" centers.

Cat. No.	Action	Volts	Each
504	Opens Circuit	12, 24, 48	\$3.70
505	Closes Circuit	12, 24, 48	4.45

DOOR OPENERS

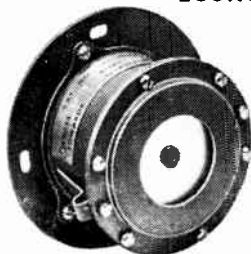


Heavy duty long-lasting type. Solid bronze nosings for durability. Number 154 has roller nose. Momentary duty only.

Cat. No.	Type Installation	AC	DC	Each
9	Mortise	8-12	6	\$6.76
152	Surface	6-8	3	7.10
154	Mortise	12-16	4-5-6	7.75

EDWARDS SIGNALING DEVICES

ECONOMY HORN



Lightweight shock mounted construction, small size, high noise level, for low voltage only. Standard voltages 6, 12, 24 volts. AC or DC as desired. Other voltages to 48. Adapter plate for 4" octagon box. Specify rating when ordering.

Cat. No.	Decibels at 10 ft.	Rating	Each
319 Horn	90	12, 24 volts 60 cycle	\$11.85
	100	6, 12, 24 VDC	11.85

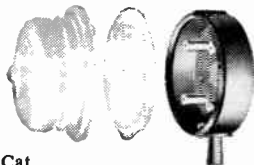
ADAPTABEL®



Heavy duty . . . louder than competitive bells of equivalent size . . . U. L. approved. No mechanical clatter. 4" — 6" — 10" sizes. Slotted gong available. Specify voltage when ordering.

Cat. No.	Decibels at 10 ft.	Volts	Each
340-4"	77	24V 60 cycle	\$16.25
		120V 60 cycle	20.30
340-6"	83	24V 60 cycle	22.90
		120V 60 cycle	27.30
340-10"	89	24V 60 cycle	30.30
		120V 60 cycle	32.50
343-4"	72	6V DC	16.15
		24V DC	18.70
		125V DC	20.35
343-6"	80	6V DC	22.95
		24V DC	24.40
		125V DC	27.35
343-10"	85	6V DC	30.35
		24V DC	30.35
		125V DC	32.50
		250V DC	40.65

ADAPTAHORN AND ADAPTABEL WEATHER-PROOF BACK BOXES



Weatherproof back box mountings. U. L. approved.

Cat. No.	Description	Each
348	Weatherproof back box for 340-4" bell, 343-4" bell, 340-A buzzer.....	\$4.88
349	Weatherproof back box for 340-6", 340-10" bells; 372 and 374 horns, 343-6" and 343-10" bells, 373-L and 375-L horns	4.88

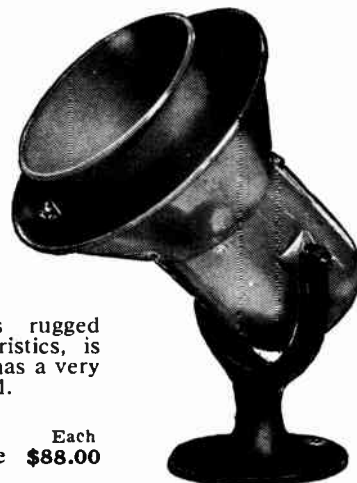
SINGLE STROKE ADAPTABEL

Single stroke AC and DC bells. Powerful solenoid design. For paging, scheduling and alarm systems.



No.	Volts	Each
332-4"	24V 60 cycle	\$19.95
332-6"	120V 60 cycle	26.50
332-10"	120V 60 cycle	31.50

INDUSTRIAL SIREN

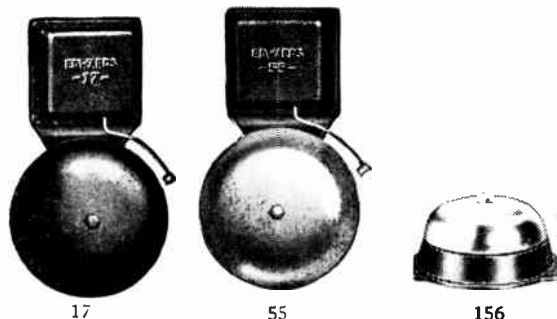


This siren has rugged operating characteristics, is weatherproof and has a very loud piercing signal.

Cat. No.	Volts	Each
315	125V 60 cycle	\$88.00

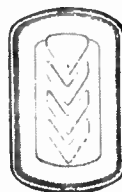
LIGHT DUTY BELLS

Low cost, low voltage, self-contained, light duty bells. Standard bells operate at 8 — 10 volts 60 cycles or 6 — 8 volts DC.



Cat. No.	Description	Volts	Each
17-4"	Powerful double magnet adjustable low current for long wire runs	6 DC	\$6.60
		8 AC	
17-6"	Powerful double magnet adjustable low current for long wire runs	6 DC	7.77
		8 AC	
55-4"	Economical single magnet adjustable bell	6 DC	3.85
55-6"	Economical single magnet adjustable bell	8 AC	5.15
		6 DC	
156	Self-contained gray with painted gong	6 DC	4.25
		8 DC	

BELLS AND BUZZERS



720

Versatile, inexpensive streamlined bells and buzzers. Satin aluminum finish, snap-on covers. Number 720 — fully enclosed Dixie type bell; Number 725 — Dixie buzzer; Number 740 — Nubel exposed gong.



740

Cat. No.	Volts	Each
720	6 AC	\$1.28
725	6 AC	1.10
730	6 AC	2.02
740	6 AC	1.15
744	6 AC	2.02

EDWARDS SIGNALING DEVICES

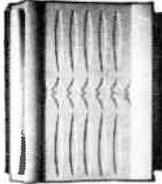
THE CATALINA



The Catalina with its contemporary lines and neutral gray coloring and gold insert, is a chime sure to add a pleasing note to any home. Two notes for front door, one note for the rear, it operates from an Edwards #990 transformer.

Cat. No. **C-75**

Model Catalina Each **\$3.66**



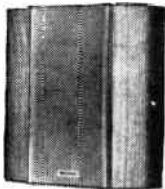
THE CORINTHIAN

This beautiful chime adds a modern Grecian touch to any home, harmonizing nicely with both contemporary and traditional decor. Its attractive ivory colored shield is accented by brass side grilles. Two notes for front entrance, one for rear.

Operates from 16V, 10 watt transformer.

Cat. No. **C-79**

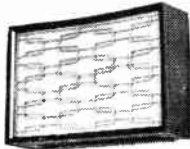
Model Corinthian Each **\$6.00**



THE BRIARCLIFF

A handsome chime with a distinctive and pleasing tone. Finished in cherry grain, with brass-colored vinyl center, it blends with any decorative motif. Two note front door signal, and one note for the rear door. Operates from an Edwards #992 transformer.

Cat. No. **C-87** Model Briarcliff Each **\$8.25**



THE CLASSIC

This beautiful chime in its rich mahogany case accented with a decorative golden grille over beige fabric is enriched with a symphonic, resonant chime tone. Signals for front and rear entrances, it operates from an Edwards #992 transformer.

Cat. No. **C-84**

Model Classic Each **\$7.40**

THE IVANHOE



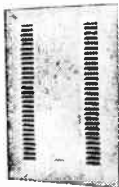
C-106

Knob and shield of aluminum anodized gold finish. Twist mechanical chime with smooth acting mechanism. No. C-107 has Family-Gard™ Viewer affording home protection by means of a wide angle lens which provides view of either side of doorway. Two note. 6½" x 3" x 2⅞".

Cat. No. **C-106**
C-107

Model Ivanhoe Each **\$3.70**
Ivanhoe (with Viewer) **5.85**

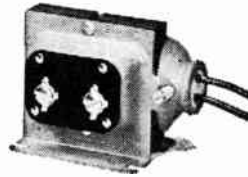
THE CLEF



A smartly styled flush chime with two and one note signals. White-sand, molded plastic cover snaps into position, spring clips allow for adjusting mounting depth. Noiseless nylon bearings.

Cat. No. **C-82** Model Clef Each **\$4.40**

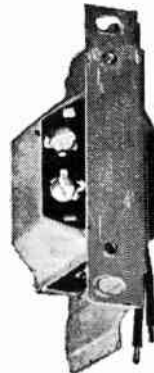
DOORBELL, CHIME AND SIGNALING TRANSFORMERS EASI-MOUNT



U. L. listed for mounting on any outlet box or cabinet with ½ inch knockouts, or alone on any surface without box, exclusive Easi-Mount feature for fast installation.

All have built-in self-restoring circuit breakers which protect against overload. Edwards Easi-Mount transformers are 25% smaller and lighter than previous types.

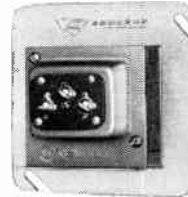
Cat. No.	Volts	Watts	Each
990	10	5	\$1.65
992	16	10	2.02
996	6, 12, 18	7.5	2.52



EASI-MOUNT FLUSH TRANSFORMERS

Mounts in multi-gang outlet boxes, eliminates long wire runs. Ideal for apartment house applications. Can be mounted in same outlet box with variety of flush signals. U. L. listed.

Cat. No.	Volts	Watts	Each
991	10	5	\$2.68
993	16	10	3.05



TRI-VOLT TRANSFORMER

A surface mounted transformer with primary wire leads and exposed secondary terminals. Designed for applications where an unusually long wire run exists.

Cat. No.	Rated	Each
998	20 watts at 8 volts 30 watts at 16, 24 volts	\$3.96

STANDARD SIGNALING TRANSFORMERS

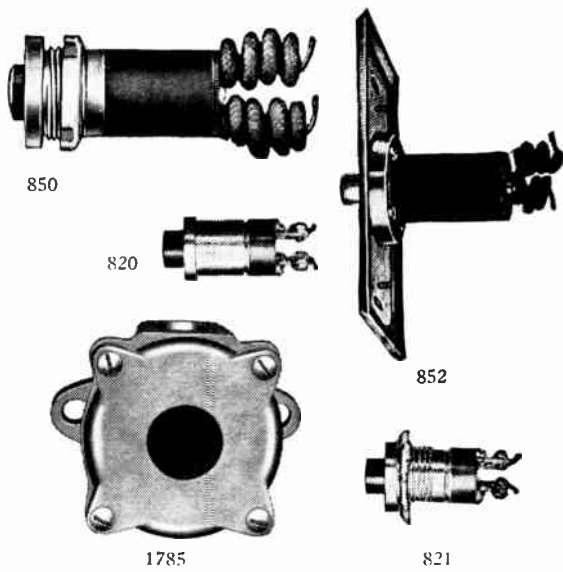


Self-contained in sturdy metal housing, these transformers are designed to form their own barrier between high and low voltages, and adequately meet all safety and U. L. codes. Large, conveniently placed binding posts on both primary and secondary eliminate splicing, soldering, and taping. Secondary voltages of 4, 8, 12, 16, 20, or 24 volts provided. Knockouts provided for easy entrance with BX conduit. 88-50 and 88-100 are U. L. listed.

Cat. No.	Watts	Each
88-50	50	\$11.30
88-100	100	18.30
88-250	250	46.20
88-500	500	71.20

EDWARDS SIGNALING DEVICES

HIGH VOLTAGE PUSHBUTTONS



U. L. listed, normally open or closed, high voltage pushbuttons, either AC or DC up to 250 volts. Rugged construction with either snap-fit or locknut. Feature fast break regardless of how pressure, is released. Nos. 820, 821 for quick break applications, 850, 851, 852, 854 for quick make and break.

Cat. No.	Type	Volts	AC Amps	DC Amps	Each
820	Snap-fit	12	15.0	15.0	\$3.38
		12	15.0	15.0	
		48	10.0	5.0	
821	Locknut	125	5.0	1.0	3.71
		250	5.0	---	
		---	---	---	
850	Locknut	12	10.0	10.0	3.71
		24	10.0	10.0	
		48	10.0	7.0	
851	Pendant	32	10.0	8.0	6.74
		48	10.0	7.0	
		125	6.0	3.0	
852	Flush	125	6.0	3.0	8.44
		250	3.0	1.0	
		---	---	---	
854	Locknut (normally closed)	12	4.0	4.0	5.06
		24	4.0	4.0	
		48	4.0	2.0	
		125	2.0	1.0	
		250	1.0	0.5	
1785	Weather-proof surface	12	20.0	20.0	8.44
		24	20.0	10.0	
		125	4.0	1.0	

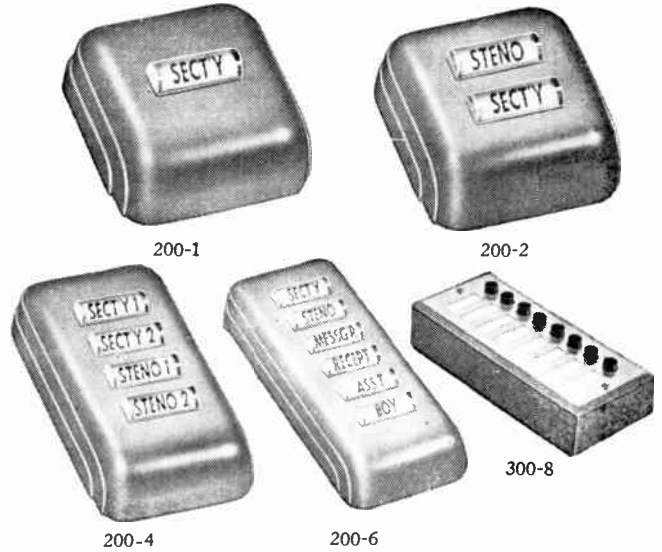
INDUSTRIAL RESONATING HORNS



Here is a horn that has a distinctive loud tone. Has a rugged weatherproof construction. Swivel mounting.

Cat. No.	Decibels at 10 ft.	Volts	Each
5420	104	120 60-cycle	\$52.00
5420	104	240 60-cycle	52.00
5421	104	125V DC	42.00
5421	104	24V or 250V DC	42.00

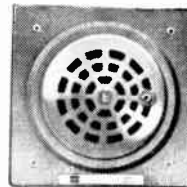
DESK TOP PUSHBUTTONS



Available in one to twelve button models with or without six foot cord and connector block. Molded of French Gray styrene, they will not crack or chip. Long-life silver contacts for positive action and rubber mat to prevent slipping. Suffix "C" designates cord and connector block. All models are available in either AC or DC and are rated 12, 24, and 48 volts at 4, 4, 2 amps AC, or 4, 2, and 1 amps DC.

Cat. No.	Number Buttons	Each
200	1	\$3.85
200	2	4.70
200	4	6.70
200	6	11.15
200C	1	6.00
200C	2	7.40
200C	4	10.55
200C	6	16.10
300	8	16.80
300	10	20.00
300	12	27.50
300C	8	25.80
300C	10	28.10
300C	12	36.60

ADAPTAHORN®

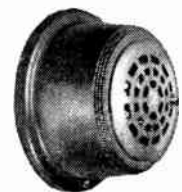


No. 370 Flush Type



No. 372 Projector Type

Amp for amp . . . the loudest horn on the market. Easily adjusted, never changes once it's set. Grille type for general installations. Projector horn directs the signal to specific areas. Flush horn gives a more attractive appearance. Specify voltage when ordering.



No. 374 Grille Type

Cat. No.	Description	Decibels at 10 ft.	Volts	Each
370-A	Flush	96	24 or 120, 60 cycle	\$24.37
372-A	Projector	95	24 or 120, 60 cycle	17.72
374-A	Grille	98	24 or 120, 60 cycle	15.12
371-L	Flush	95	All DC voltages to 250V	19.45
373-L	Projector	95	All DC voltages to 250V	19.45
375-L	Grille	95	All DC voltages to 250V	16.00

EDWARDS SIGNALING DEVICES

STRAP MOUNTED RELAY

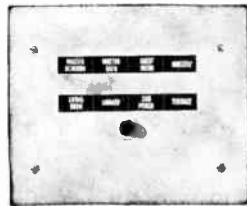


This DPDT, strap mounted relay is available in 10 ratings to serve up to 60 different applications. Strap mounting permits a quick, permanent mounting in outlet box, but can be removed easily for panel mounting. All contacts are silver with diffused surface of pure gold,

and are rated at 10 amps. Terminations are pre-tinned solder lugs.

Cat. No.	Volts	Current Rating	Each
970	6V DC	10a resistive	\$5.85
971	12V DC	10a resistive	5.85
972	24V DC	10a resistive	5.85
973	125V DC	.5a resistive	6.40
980	6V AC	10a resistive, 6a tungsten	5.85
981	12V AC	10a resistive, 6a tungsten	5.85
982	24V AC	10a resistive, 6a tungsten	5.85
983	120V AC	10a resistive, 6a tungsten	5.85
984	250V AC	10a resistive, 6a tungsten	6.40

ANNUNCIETTES



672



82

Ideal for homes, offices, restaurants, rest homes, motels, and dormitories to indicate location of call. Low voltage momentary duty only. Audible signal included in both models with terminals for extension signal. Standard 12 volts, 60 cycles. Finish of No. 82 is wrinkle gray. No. 672 baked enamel. Much smaller and neater than older styles. Box on flush model is 3" deep, trim 7/8" larger than wall cut. Both models reset manually.

HOSPITAL SYSTEMS



Edwards hospital systems provide the efficiency and safety today's modern hospital demands. Edwards hospital systems include:

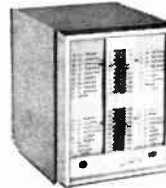
- Doctors in-out registers
- Ansercall®, Audio-visual nurses call
- Fire alarm systems
- Psychopathic alarms
- Silent paging
- Clock systems

Ansercall, Edwards' audio-visual nurses call, provides faster patient care and more efficient utilization of nurses time. Nurse has complete control of Ansercall, can answer calls from sickest patients first. New bedside stations permit integration with TV-radio systems of any make or model.

AUDIBLE PAGING SYSTEMS

Edwards Lokator® and Lokette® are audible paging systems employing coded signals such as chimes, bells and horns to selectively page individuals. Ideal for offices, factories, banks, and any business where key people may be away from their work stations. Coded paging provides privacy not possible with voice paging systems.

LOKATOR



5240 mounting bracket (No. 5205) also available.

Available in 20 (No. 5220), 40 (No. 5240), and 80 (No. 5280) call models, the Lokator is handsomely finished in office-matching gray. It offers both manual and automatic operation, and requires no warm-up time. Modern printed circuit code wheel assures you of long dependable service. Switch

LOKETTE



5210 from selector unit as desired. Available in either flush or surface models. Operates at 24V and 120V AC.

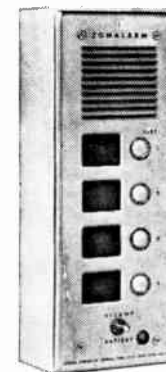
A compact 10-call unit (No. 5210) manually operated. Wonderful for smaller businesses where anticipated expansion will not exceed ten people.

Power unit for either the Lokator or Lokette can be installed as close or as far away

New electronic power unit (No. 5202) designed for use with audio-amplifier systems adapts the Lokator or Lokette for use with existing paging or sound systems. It sounds a normal, high, or low pitch chime tone, depending on background noise, without interrupting music or use of microphone. It plugs into any AC line, and connects with Lokator or Lokette and amplifier.

Cat. No.	Description	Each
5200	Power Unit, Surface	\$60.30
5201	Power unit, flush	60.30
5202	Electronic Power unit	47.50
5205	Mounting bracket	8.10
5210	Lokette	52.50
5220	20-call Lokator	92.50
5240	40-call Lokator	157.50
5280	80-call Lokator	281.25

ZONALARM

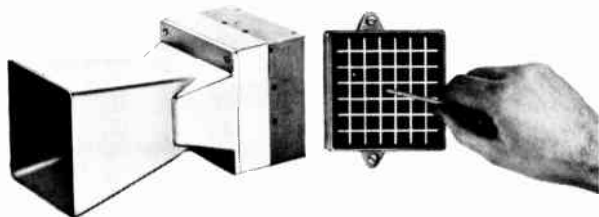


Automatically warns of fire and notifies you of its source. Fully automatic, provides 24-hour warning system, switches to battery operation if power fails. Any number of automatic thermal detectors may be used. Zonalarm provides the features of big system protection at a small system price. Intruder alarm features, and extension signals available.

Cat. No.	Style	Each
F-401	Zoned warning panel, flush on surface	\$48.25
F-402	Power unit control panel	50.50
445	135° detector	2.70
446	190° detector	2.70

BENJAMIN SIGNALING EQUIPMENT

MODUTONE VIBRATING HORNS



Now a complete range of sound in one signal. These new units can be adjusted from a quiet buzzer to a loud howler without affecting other signals on the line. AC or DC units available.

Cat. No.*	Description	Each
Grille Front Units		
KH-800	Panel Mount Power Unit.....	\$12.70
KH-806	Indoor w/Outlet Box.....	13.70
KH-809	Weatherproof w/Weatherproof Box	15.80
KH-805	Semi-Flush w/Box Trim Plate.....	13.70
KH-808	Flush w/Face Plate & Deep Box.....	17.85
KH-807	Surface w/Indoor Box & Plate.....	14.65
Single Projector Units		
KH-816	Indoor w/Box & Projector.....	15.60
KH-819	Weatherproof w/Box & Projector....	17.70
KH-815	Semi-Flush w/Plate & Projector.....	15.60
KH-818	Flush w/Plate, Box & Projector.....	19.80
KH-817	Surface w/Box, Plate & Proj.....	16.60
Double Projector Units		
KH-826	Indoor w/Box & 2 Projectors.....	20.60
KH-829	Weatherproof w/Box & 2 Proj.....	22.90
KH-825	Semi-Flush w/Plate & 2 Proj.....	20.60
KH-828	Flush w/Plate, Box & 2 Proj.....	24.85
KH-827	Surface w/Box, Plate & 2 Proj.....	21.65

*AC units in 12, 24, 120 or 240 volts. Add suffix voltage to Cat. No.

MOTOR DRIVEN SIREN

Listed by Underwriters' Laboratories, Inc.



Sound is produced by a rotor fan driven by a powerful, high torque, series wound motor within a port housing. AC-DC. Not for coding uses.

Housing is tapped for 1/2" conduit; supplied with built-in junction box and wiring terminals. Finish is baked gray hammered enamel.

Cat No	Volts	Grille	Each
8199-115V	115	20-Ga. Steel	\$59.15
8199-230V	230	20-Ga. Steel	63.25

WATERTIGHT HEAVY-DUTY PUSH BUTTONS

Listed by Underwriters' Laboratories, Inc.

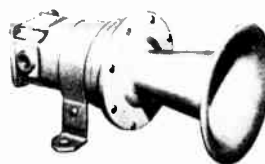


Suitable for use with any Benjamin signal or any electrical device with a similar rating. Positive acting with a quick make-and-break mechanism. Casing is tapped top side only for 1/2" conduit entrance; can be tapped for 3/4" conduit, "straight-through" or in bottom only for either 1/2" or 3/4" conduit when specified.

Cat. No.	Description	Each
8493	Single Button, Open Circuit	\$6.20
8874	Single Button, Closed Circuit	6.20

MOTOR DRIVEN WEATHERPROOF HOWLER

Listed by Underwriters' Laboratories, Inc.



Howler has ample power to make its call heard into most noisy industrial locations, clear and vibrant in tone. High torque, series wound motor. Starts and stops instantly with the current impulses. AC-DC. Not for code-calling.

Housing is tapped for 1/2" conduit; supplied with built-in junction box and wiring terminals. Finish is baked gray hammered enamel.

Cat. No.	Volts	Type Projector	Each
8170-115V	115	5 1/2" Single Bell	\$52.80
8170-230V	230	5 1/2" Single Bell	56.95
8170-250V	250	5 1/2" Single Bell	62.45

TYPE EXH EXPLOSION-PROOF HOWLER

Listed by Underwriters' Laboratories, Inc. Class I, Groups C and D; Class II, Groups E, F and G; Class III Hazardous Locations



Howler has ample strength in every part to withstand the tremendous pressure of internal explosions without breaking down or permitting flame, hot gases or sparks to escape and ignite surrounding atmosphere.

Housing is tapped one side only for 1/2" conduit entrance; can be tapped one side for 3/4" conduit or "straight-through" for either 1/2" or 3/4" conduit when specified. Finish is baked gray hammered enamel. AC current only.

Cat. No.	Volts	Type Projector	Each
8130-24V	24*	5 1/2" Single Bell	\$55.00
8130-115V	115	5 1/2" Single Bell	55.00
8130-230V	230	5 1/2" Single Bell	59.15

*Unsuitable for use with low voltage signals. Signaling transformers are required.

TYPE SWP WEATHERPROOF HEAVY-DUTY BUZZER

Listed by Underwriters' Laboratories, Inc.



Buzzer has a distinctive tone and is ideal for code-calling. Sound-producing mechanism starts and stops with the current impulses. AC and DC units available. Do not have muting mechanism.

Housing is tapped one side only for 1/2" conduit entrance; can be tapped one side for 3/4" conduit or "straight-through" for either 1/2" or 3/4" conduit when specified. Finish is baked gray hammered enamel.

Alternating Current			Direct Current		
Cat. No.	Volts	Each	Cat. No.	Volts	Each
8699-12V	12*	\$15.15	8698-6V	6	\$16.50
8699-24V	24*	15.15	8698-115V	115	16.50
8699-115V	115	15.15	8698-250V	250	20.65
8699-230V	230	19.25			

*Unsuitable for use with low voltage signals. Signaling transformers are required.

FEDERAL ELECTRIC SIGNALS

VIBRATONE BELLS

Vibrating, Single Stroke and Chime



Radical modular design uses one basic mechanism with option of 4", 6" or 10" gongs. Modular accessories for a wide variety of mountings are same as used with Vibratone Horns. Basic model also mounts on standard outlet boxes.

Top quality, unexcelled performers for heavy duty but low current consumption. Available for AC or DC, single stroke, as well as standard vibrating type. AC models have no contacts. Single stroke AC in 700 and DC in 800 number series correspond to, and conform respectively in price to, vibrating models listed below.

Federal bells, except the chime, carry the same price for all standard voltages from 6 to 250. Exact voltage required must be specified on order.

Model No.		Description	Price
A.C.	D.C.		
4-Inch Bells			
504	604	Basic unit	\$13.20
504N	604N	Interior type	14.10
504W	604W	Weatherproof	16.20
504SF	604SF	Semi-flush	14.10
504CC	604CC	Concealed conduit	14.10
504F	604F	Flush	18.90
6-Inch Bells			
506	606	Basic unit	\$18.60
506N	606N	Interior type	19.50
506W	606W	Weatherproof	21.60
506SF	606SF	Semi-flush	19.50
506CC	606CC	Concealed conduit	19.50
506F	606F	Flush	29.10
10-Inch Bells			
510	610	Basic unit	\$22.80
510N	610N	Interior	23.70
510W	610W	Weatherproof	25.80
510SF	610SF	Semi-flush	23.70
510CC	610CC	Concealed conduit	23.70
510F	610F	Flush	37.20
101	201	Chime	19.80



For industries and municipalities, wherever a loud distinctive general alarm or code signal is desirable.

For short codes or prolonged alarms, Federal air horns are ideal. Each successively

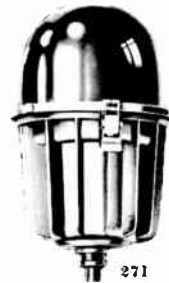
larger whistle has a deeper and more powerful tone. Projectors are specially machined cast bell bronze. Horns are available for specific pressures ranging from 15 pounds upward.

Diaphragms of special metal will last almost indefinitely at proper working pressure. Hand valves or electric valves also are available at prices depending on current and pressure characteristics required.

Numerals in Model Nos. indicate diameter of diaphragm. Letters H, M, or L indicate high, medium or low pitch. For example, Model 10-L is a 10-in. diaphragm low pitch horn, etc.

WARNING LIGHTS

For permanent mounting where regular 115V. 60 cycle line-voltage is available. Serve any signaling or warning function, indoors, or out, supplementing or supplanting audible signals. Range and intensity far exceeds non-rotating lights.



Model 271 — A super powerful 200 watt sealed beam lamp rotates beneath a colored dome, optionally red, green, blue, amber or clear white. Lamp may be adjusted to any angle from 9° below horizontal to almost vertical. Rugged cast aluminum case radiates heat and design permits instant inspection and relamping. Approved by Underwriters' Laboratories. Mounts on 1" pipe or any flat surface.



Model 27S — A smaller, less expensive, but very effective Beacon Ray. Rotating reflector revolves beam from a 75 watt spot lamp. Mounts on 1/2" pipe or conduit.



Model 121-S — A compact light with revolving reflector and 25 watt bulb. Many times more effective than flashing lights of much greater wattage. Same color choices as Model 271. Mounts on 1/2" conduit.

Model 27X — An explosion-proof Beacon, similar in appearance to Model 271 but mechanically similar to Model 27S. For hazardous location. Constructed to Underwriters' standards but approval pending.

Model No.	Mount	Size, In.	Wt., Lbs.	Each		
		Ht.	Net	Shpg.		
271	Universal	13 3/4	10	16	22	\$108.00
27S	Pipe	14	6 1/4	4	6	60.00
121S	Pipe	6	5	2	2 1/2	28.00
27X	Special	18	10	26	35	180.00

COMPRESSED AIR HORNS

Model No.	Frequency in CPS	Length Overall In.	Pipe Size In.	Shpg. Wt. Lbs.	Each Hand Valve	Elec. Valve
Screw Type Connection						
3-H	750	4 7/8	3/8	4 1/2	\$39.00	\$18.00
3-M	510	6 3/4	3/8	5 1/2	45.00	18.00
3-L	390	12 1/4	3/8	7 1/2	51.00	18.00
4-H	450	7 3/4	1/2	7 1/2	60.00	21.00
4-M	340	11	1/2	12	84.00	21.00
4-L	300	14 1/2	1/2	17	92.00	21.00
6-H	295	12 3/4	3/4	30	147.00	27.00
6-M	255	16 1/2	3/4	35	168.00	27.00
6-L	190	19	3/4	40	189.00	27.00

Flange Type Connection						
8-H	240	15 3/4	3/4	60	\$222.00	\$27.00
8-L	170	23 3/4	3/4	65	280.00	27.00
10-H	200	16 3/4	1	75	285.00	27.00
10-L	125	25 1/2	1	110	345.00	27.00

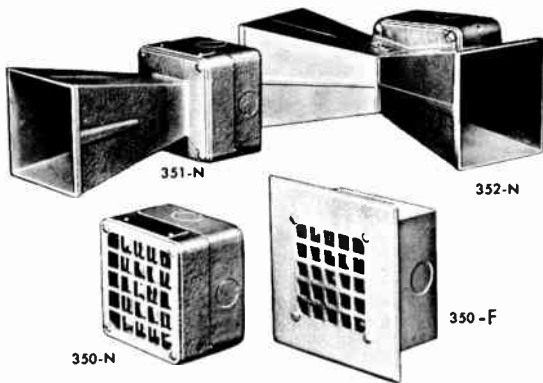
Valves are available for any common voltage in D.C. from 6 to 250 volts; for 60-cycle A.C. in 24, 110, 208, 220, and 240 volts; and for 25-cycle A.C. on 110, 220, and 440 volts.

FEDERAL ELECTRIC HORNS

Offered in a variety of types and models. Excellent for coding or alarm. Vibratone horns produce the familiar industrial horn tone. Resonating horns, twice as loud, have a trumpet tone. Motor driven horns, less powerful, and not satisfactory for coding, provide a third distinct sound.

Available in standard voltage 60 cycle AC and also DC between extremes listed. 25 cycle AC also available. All have tapping or knockouts for 1/2" conduit and are finished in gray enamel.

VIBRATONE HORNS



A radical new design. The basic unit plus accessories produces all types and optional mountings. Add the flush box and grille for a completely flush horn. Add one or two projectors for single and dual projector models.

The most powerful vibratory horn on the market, factory tuned to maximum volume. Can be cut down to a whisper by rotating adjusting screw. Self compensating. Good for continuous duty. Lowest current consumption. Fits any standard 4" square outlet box. Specify any standard voltage from 6 to 250.

AC Model No.	Each	Type of Mounting	DC Model No.	Each
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Grille Models

350	\$11.70	Basic unit only	450	\$17.10
350-N	12.60	Interior type	450-N	18.00
350-W	14.70	Weatherproof	450-W	20.10
350-SF	12.60	Semi-Flush	450-SF	18.00
350-CC	13.50	Concealed conduit	450-CC	18.90
350-F	16.80	Flush type	450-F	22.20

Single Projector

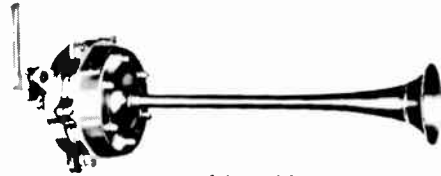
351	\$13.50	Basic unit	451	\$18.90
351-N	14.40	Interior type	451-N	19.80
351-W	16.50	Weatherproof	451-W	21.90
351-SF	14.40	Semi-Flush	451-SF	19.80
351-CC	15.30	Concealed conduit	451-CC	20.70

Double Projector Models

352	\$18.30	Basic unit	452	\$23.70
352-N	19.20	Interior type	452-N	24.60
352-W	21.30	Weatherproof	452-W	26.70
352-SF	19.20	Semi-Flush	452-SF	24.60
352-CC	20.10	Concealed conduit	452-CC	25.50

RESONATING HORNS

The loudest electric horns. Weatherproof models have swivel bracket, straight projector, and pearl gray finish. Interior types have coiled projector, plug-in mounting and red finish.



Models 55-56

Model No.	Voltages	Description	Shpg. Wt. Lbs.	Each
53	24-250 AC	Interior	10	\$40.20
54	6-250 DC	Interior	10	40.20
55	24-250 AC	Weatherproof	11	42.00
56	6-250 DC	Weatherproof	11	42.00

MOTOR DRIVEN HORNS



Models 20-21

Models 60-61

Less powerful than the Resonating but a distinctive toned alarm signal. Not suitable for use with paging devices.

Model No.	Voltages	Description	Shpg. Wt. Lbs.	Each
20	110-220-250 AC	Sgl. Projector	12	\$54.00
21	110-220-250 DC	Sgl. Projector	12	54.00
60	110-220-250 AC	Dbl. Projector	15	57.00
61	110-220-250 DC	Dbl. Projector	15	57.00

EXPLOSION PROOF HORNS

A number of electric horns are available in explosion proof construction meeting class I group D requirements. Model numbers are similar to corresponding non-explosion proof units but have an X appended.

Resonating and all DC explosion proof horns are furnished complete with an explosion proof splicing conduit which is not required in other models.



Models 31X-41X

Models 30X-32X-42X

Model No.	Voltages	Description	Shpg. Wt. Lbs.	Each
30X	110-220 AC	Standard	11 1/2	\$57.00
31X	6-250 AC	Hi-Power	11 1/2	63.00
41X	6-250 DC	Hi-Power	11 1/2	75.00
32X	6-250 AC	Hi-Power	13	69.00
42X	6-250 DC	Hi-Power	13	81.00
33X	6-250 AC	Hi-Power	14	75.00
43X	6-250 DC	Hi-Power	14	87.00
55X	110-220 AC	Resonating ..	23	117.00
56X	110-220-250 DC	Resonating ..	23	117.00

FEDERAL ELECTRIC INDUSTRIAL SIRENS AND CONTROLS

TYPE A SIREN

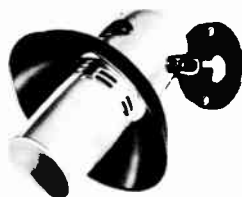


A long-time favorite for all purposes. Has quick pick-up to high maximum pitch for contrast with industrial and traffic noises. Has 1/2 horsepower sound output at 150 watts. Complete with adjustable bracket and weatherproof housing. Choice of voltages includes 6, 12, 24, 48 and 110, for 25 to 60 cycle AC, or DC. Siren length, excluding bracket 11 1/2"; diameter 10 1/2". Net weight 13 lbs. Shipping weight 15 lbs.

Type A Sireneach **\$69.00**

TYPE J SIREN

Similar to the type A but has heavy duty motor for severe services on cranes and other heavy industrial equipment. Choice of 110, 220 or 250 volts, 25 to 60 cycle AC, or DC. Length 12". Diameter 11 1/2". Net weight 15 1/2 lbs. Shipping weight, 18 lbs.



Type J Siren.....each **\$81.00**

TYPE D SIREN



Also similar to the types A and J but with a more powerful motor. Produces 1/2 horsepower sound output on 215 watts. Its deeper tone carries farther and provides better contrast where ambient noises are high pitched. Weatherproof construction and adjustable bracket included. Choice of 6, 12, 24, 48 or 110 volts, 25 to 60 cycle AC or DC, 12" long and 9 1/2" in diameter. Net weight 14 lbs. Shipping weight 17 lbs.

Type D Siren.....each **\$75.00**

TYPE L SIREN

The heavy duty version of the type D Siren, for heavy industrial use and higher voltages. Choice of 110, 220 or 250 volts, 25 to 60 cycle AC or DC. Length 11 1/2"; diameter 11 1/2". Net weight 16 1/2 lbs. Shipping weight 19 lbs.



Type L Sireneach **\$87.00**

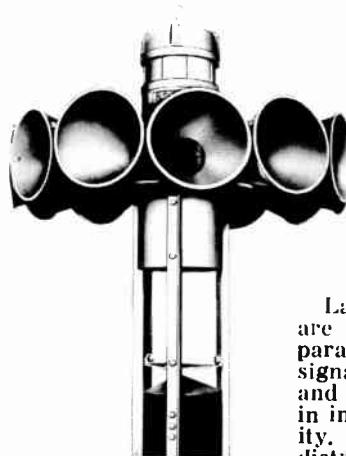
MODEL AX EXPLOSION PROOF SIREN



Similar in sound output to the models A and J siren. Meets rigid Underwriters specifications for use in Class I group D and Class II groups F & G hazardous locations, 110 volts only AC or DC. Length 10"; Diameter 7". Net weight 16 lbs. Shipping weight 19 lbs.

Model AX Explosion-Proof Sireneach **\$207.00**

VERTICAL SIRENS



5 H.P. Siren

Large vertical sirens are excellent and comparatively inexpensive signals for fire, air raid, and other alarm purposes in industry or municipality. The vertical design distributes sound waves radially over distances averaging 1/2 to 2 miles, depending on local conditions. Specially designed ball bearing motors assure quick pick-up and high output. The two horsepower universal motor will also operate on DC. All others are for 60 cycle AC operation with choice of voltages as tabulated below. The model STH-10 differs radically in design and appearance. With sound output proportionately higher than its horsepower indicates.

Model	H.P.	Phase	Voltages	Shpg. Wt. Lbs.	Each
2	2	1	110 Or 220	70	\$337.50
5	5	3	220/440	300	594.00
5	5	1	220	325	774.00
STH-10	10	3	220/440	450	855.00
STH-10	10	1	220	470	1035.00

REMOTE CONTROL RELAYS

Must be used with all large sirens to permit remote operation by push-button, timers, alarm boxes, or program clocks.

Description	Each
Remote Control for No. 2 Sirens.....	\$43.20
Remote Control for Nos. 5 and ST Sirens—3 phase	81.00
1 phase	103.50

FIRE ALARM PULL BOX



A pull of the handle winds the clockwork actuated contacts to sound the siren up and down scale for 2 minutes and then stop. No voltage limitations.

Description	Each
Pull Lever Box (as illustrated).....	\$86.40
Pull Lever Box—Weatherproof	88.20

PREDETERMINED GENERAL ALARM CONTROL

Operates the siren up and down scale for 2 1/2 minutes but can be actuated by one or more remotely located start only push buttons. Choice of 110 or 220 volts.

Description	Each
Preetermined General Alarm Control, ea.	\$97.20
Push Button for above	6.30
Push Button in weatherproof break glass box	27.90

PROGRAM CLOCK

Can be set to blow the siren one blast at a time or test signal at any five minute interval in a 24-hour day. Choice of 110 or 220 volts, 60 cycle A.C. Has self-starting motor.



Description	Each
Model 75 Program and Test Clock	\$102.60

BURGESS-DAY

**NOISE-FREE TELEPHONING
WITH BURGESS-DAY ACOUSTI-BOOTH®**



- Kills noise
- Privacy without doors
- Minimum maintenance
- Built-in fluorescent light
- Open-space ventilation
- All-metal

Model 45 Acousti-Booth has the best overall performance for most locations. It has full acoustical efficiency even in highest noise level areas, and provides the "quiet zone" for telephone calls anywhere.

You are the door of the Acousti-Booth. You can handle phone conversations in comfort and privacy regardless of outside noise. The combination of the patented booth design and the sound-absorbing characteristics of the booth walls reduces outside noise to minimum levels.

There is almost no maintenance on the Model 45 Acousti-Booth. The rugged all-steel construction requires only occasional surface wiping. There are no doors, no hardware, no fans to maintain.

Colors: Gray, green or beige — all with white interior. Gray is shipped if no color is specified.

Illumination: Built-in fluorescent light.

Outside Dimensions: 35½" W., 32" D., 36" H.

Net Weight: 125 lbs.

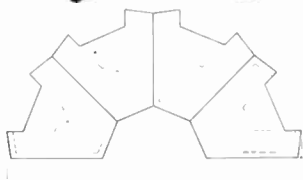
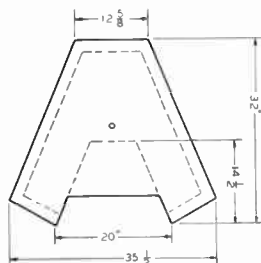
Shipping Weight: 147 lbs.

Cat. No.		Each
45	Acousti-Booth — for wall mounting.....	\$139.50
45	Acousti-Booth — with tubular legs — set of 3.....	169.50
45	Back Mounting Bracket (1 required)....	17.00
45	Side Mounting Bracket (1 required)	20.00

Model 45 Acousti-Booth with legs — Three heavy gauge tubular steel legs provide rigid off-the-floor mounting.



Below: Many floor plan variations are available with Model 45 . . . side wall mount, back mount and an infinite number of cluster variations.



Four Model 45 Acousti-Booths take up much less space than door-type booths.



**Model 602
ACOUSTI-BOOTH
FOR MEDIUM
NOISE LEVELS**

Model 602 is an all-metal Acousti-Booth that is the perfect answer for limited space and low budget. It is extremely effective in offices, corridors, stores, lobbies, dormitories and restaurants.

Colors: Gray, green or beige — all with white interior. Gray is shipped if no color is specified.

Outside Dimensions: 28" W., 26" D., 32" H.

Net Weight: 75 lbs.

Shipping Weight: 92 lbs.

Cat. No.		Each
602	Acousti-Booth	\$98.00



**Model 601
ACOUSTI-BOOTH —
WHERE WOOD
DECOR IS DESIRED**

This all-wood Acousti-Booth is similar in size, design and function to Model 602 Acousti-Booth, shown above. You can obtain Model 601 in unfinished birch and finish it to your specifications, or it is available in walnut stain.

Outside Dimensions: 28" W., 26" D., 32" H.

Net Weight: 50 lbs.

Shipping Weight: 68 lbs.

Cat. No.		Each
601	Acousti-Booth, Walnut Stain.....	\$122.00
701-UF	Acousti-Booth (unfinished)	110.00



**Model 211
ACOUSTI-BOOTH —
HEAVY DUTY
FLOOR BOOTH**

For use in areas where low-frequency noises predominate, such as noisy plants having very heavy machinery, pumping stations and generating plants where power source is large, slow-moving engines.

Color: Gray only — with white interior.

Illumination: Built-in fluorescent light and shelf.

Outside Dimensions: 31" W., 38½" D., 79¾" H.

Net Weight: 320 lbs.

Shipping Weight: 360 lbs.

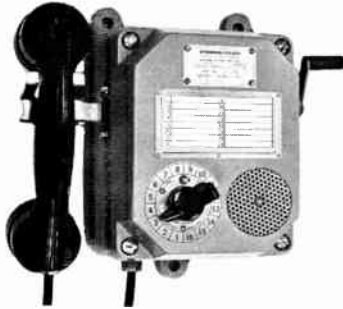
Cat. No.		Each
211	Acousti-Booth, with light.....	\$315.00

STROMBERG-CARLSON SOUND POWERED TELEPHONE SETS

EQUIPPED WITH MAGNETO-HOWLER CALL

The voice of the user supplies all the power necessary to operate sound powered telephones. The voice causes fluctuations in the magnetic circuit of transmitter creating alternating current. This current is transmitted to receiver where sound waves are created, reproducing speaker's voice.

Designed to withstand exacting shock, vibration, salt water corrosion, temperature and pressure tests. Molded parts are of impact material. Metal parts made of non-corrosive materials whenever possible.



No. 702019-520

Each station consists of a sound powered telephone handset mounted on a waterproof cast aluminum case, which contains a 1000 cycle magneto generator, a howler unit with connecting horn, the necessary terminal blocks and, if selective ringing is required, a rotary selector switch.

**COMMON TALKING — COMMON RINGING
No. 702019-455 STATION**

Four stations per system with maximum separation between any two stations of four miles. Wiring reduced to minimum. Two twisted pairs per system of No. 22 AWG or larger. One for calling and one for the telephone. To call, turn generator crank, this operates howlers at all stations except originating station. To talk simply press and hold down button on handset.

**COMMON TALKING — SELECTIVE RINGING
No. 702019-505 AND 702019-520 STATION**

No. 702019-505: Maximum number of stations per system is eight. No. 702019-520: Maximum number of stations per system is sixteen. Twisted pairs of No. 22 AWG or larger recommended for both telephone and calling lines to avoid cross talk. To call simply turn selector switch to desired station and turn generator handle. Howler operates only at selected station. To talk, press and hold down the button on the handset.

**MASTER STATION SYSTEMS
No. 702019-445 SUBSTATION**

Designed to be used in conjunction with a master station. Any selective ringing station. No. 702019-505 or 702019-520 may be used as master stations. Master station may call any substation, but substation may only call master station. Three twisted pairs wiring required between each substation and master station.

Cat. No.	Description	Dimens., In.			Wt. Lbs.
		Lgth.	Width	Depth	
702019-455	Station	9 3/4	10 3/4	4 3/4	9
702019-505	Station	9 3/4	10 3/4	5 3/4	10
702019-520	Station	9 3/4	10 3/4	5 3/4	11

OPTIONAL ACCESSORIES

Cat. No.	Description	Lgth.	Dimens., In.		Depth
			Width	Depth	
702003-239	Extension Howler	4	4	3 3/4	
702019-435	Generator Oper. Relay	4 1/8	4 1/8	2 1/8	
701000-677	Hood	13	12	6 1/2	

Price on Application

APPROVED BY BUREAU OF MINES

These sound powered telephone stations have been tested and approved by the Bureau of Mines, U.S. Department of the Interior, for use in mines. The Bureau states: "Permissible" as used in the schedule means formally approved by the Bureau for use in mine atmospheres that may contain methane or coal dust. The approval plate will be placed on all stations listed below. No shielding or special protection is required to make these systems explosion-proof throughout, other than caution against contact with power or light lines noted on the approval plate.



No. 702019-535 Station
With No. 701000-677 Hood

**COMMON TALKING — COMMON RINGING
No. 702019-535 STATION**

Four stations per system with maximum separation between any two stations of four miles using No. 22 AWG wire will give good performance. 11 1/4" long, 10 3/4" wide, 4 3/4" deep. Approximate weight 9 lbs.

**COMMON TALKING — SELECTIVE RINGING
No. 702019-545 STATION**

Maximum number of stations per system is eight. Specifications similar to 702019-505 but is supplied with terminal tube. 11 1/4" long, 10 3/4" wide, 5 3/4" deep. Weight 10 lbs.

No. 702019-555 STATION

For sixteen station common talking — selective ringing system. Specifications similar to No. 702019-520 station but is supplied with terminal tube. 11 1/4" long, 10 3/4" wide, 5 3/4" deep. Approximate weight, 10 lbs.

No. 701000-677 HOOD

Can be used with any station listed on this page. It is particularly useful in mine areas where falling rocks or dirt is an ever-present hazard.



JACK BOXES

No. 702019-400: Watertight brass enclosure. Equipped with single jack on cover to accommodate No. 702004-234 plug and with molded phenolic terminal block in case.

No. 702019-401: Same except has two jacks on cover.

No. 702019-402: Same except has four jacks on cover.

STROMBERG-CARLSON SOUND POWERED TELEPHONE SETS AND ACCESSORIES

SOUND POWERED HANDSETS



No. 702019-675

No. 702019-675 WEATHERPROOF HANDSETS

With built-in press-to-operate switch, recommended for heavy duty uses or where portability is desired. When button of press-to-operate switch is depressed, the handset is connected to the line. Supplied with 4 ft. of rubber covered cord. Weight without cord is 22 ounces.

No. 702019-575 WEATHERPROOF HANDSET

Without built-in switch. Has 4 feet of rubber covered cord. Weighs 20 ounces without cord.

No. 702019-003 UNDERWRITERS' LABORATORY HANDSETS

With built-in press-to-talk switch. Approved by Underwriters' Laboratories, Inc. for hazardous locations Class I, Group D. Supplied with 4½ foot rubber covered cord. All other interconnecting lines are to be enclosed in grounded rigid metal conduit to safeguard against accidental contact of telephone circuits with power lines or other circuits.

No. 702019-075 TYPE 333 APPROVED COAST GUARD HANDSETS

A weatherproof sound powered handset for use where Coast Guard approval is required.

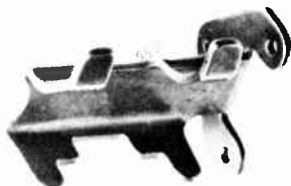
SPECIAL HANDSETS

Handsets providing special switching requirements can be made-up on order as can handsets with three or four conductor cords.

MOUNTING HOOKS



No. 701012-300



No. 701002-947

No. 701002-947 Mounting Hooks: Standard mounting hook for left hand mounting. Stainless steel. Weight 2¾ ounces.

No. 701002-948 Mounting Hooks: Similar to No. 701002-947 but for right hand mounting.

No. 701012-300 Mounting Hooks: For use where there is motion, vibration or shock. Receiver end of handset is held by a rubber padded fork; transmitter end by a coil spring covered by bakelite rollers. Aluminum frame is finished black. Weight is 9½ ounces.

No. 702019-134/141 Mounting Hooks: Similar to No. 701012-300, but provides for various switching arrangements in base which are activated by removing or replacing the handset.

For more complete information contact GRAYBAR.

HEAD-CHEST SETS



No. 702019-855: Heavy duty design, recommended as an all around instrument wherever it is desirable to have operator's hands free.

Furnished with built-in press-to-talk switch which controls transmitter only. Supplied with 10 feet rubber cord.

No. 702019-905: Sound powered weatherproof single receiver head-chest set is same as 702019-855 except has single receiver.

Headsets

No. 702019-245: A sound powered weatherproof double receiver headset supplied with 19" rubber covered cord. Weight without cord, 16 ounces.

POCKET TELEPHONE

No. 702019-090

This sound powered pocket telephone is a combined receiver and transmitter that is easily carried. Convenient for tests or periodic reports.

Equipped with 3½ feet rubber covered cord. Weight without cord is 7 ounces.



INSTRUMENT UNITS

No. 702020-050/066

Sound powered units serve as microphone and receiving units in diversified products such as gas masks, power megaphones and geophysical instruments. Standard units available with variable frequency impedances of approximately 6 to 25,000 ohms. Supplied with a chemically treated aluminum diaphragm grill and nylon cover.

When ordering, specify exact requirements.



PLUG AND PANEL MOUNTED JACK



No. 702004-234



No. 702003-453



No. 702019-390

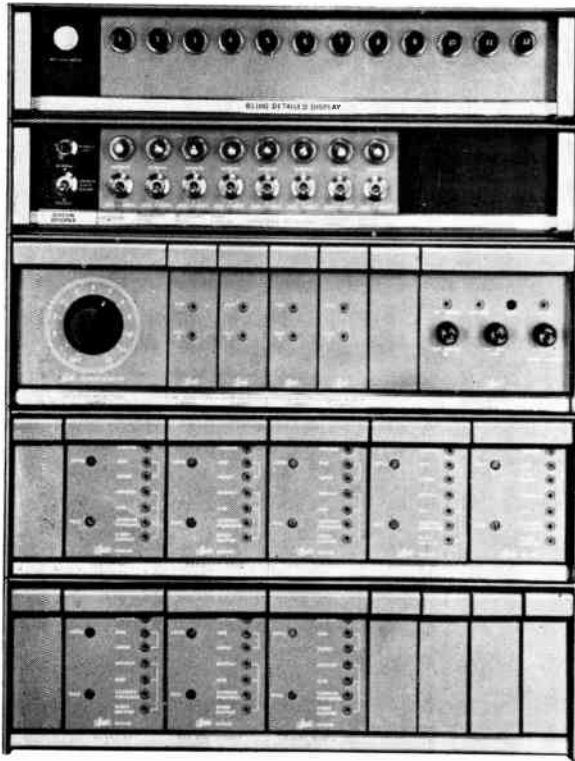
No. 702004-234 Plug: Designed for use with portable sound powered telephone equipment and can be supplied separately or attached to telephone cord.

No. 702003-453 Portable Jack: For use with 702004-234 plug.

No. 702019-390 Panel Mounted Jack: For use with 702004-234 plug.

Price on Application

LYNCH COMMUNICATION SYSTEMS

REMOTE STATUS
MONITORING SYSTEMS — B1100

Lynch B1120 Multiple Station Status Monitoring System Master Receiver including Detailed (function) Display, Station Synopsis Display for eight Remote Stations, Station Selector Switch, Decoder, Audible Alarm, Power Supply and (8) B770 Data Tone Receivers. Price on application.

The Lynch B1100 Series of Remote Status Monitoring Systems provides an integrated family of equipment designed to continuously report and display, or transfer the status of, any number of functions from one or more remote locations.

The Lynch B1100 can monitor any condition that can be represented by contact closure or an electrical voltage. All functions are monitored continuously, eliminating the need for either manual or automatic interrogation cycles with sequential readouts. Erroneous displays of status functions are minimized through this method of constant reporting supplemented by continuous error-checking provisions. The function inputs determine the individual station's continuous code, which is transmitted as detailed point-by-point information to the master station by means of a Lynch B770 solid-state tone channel, utilizing wire-line, cable or microwave transmission facilities.

Typical applications include: the transmission of binary-coded data and/or the monitoring of: circuit breakers, motor-driven valves, hazardous atmosphere-sensing devices, communication equipment, pressure switches, level switches, over-or-under voltage switches, flow switches and valves.

DATA TONE TRANSMISSION SYSTEMS — B770

The Lynch B770 is a transistorized, frequency shift, narrow band carrier communication system designed for reliable and economical transmission of digital (binary) data, control and teletype information at rates up to 300 bauds (bits-per-second).

B770 (CONTINUED)

The B770 transmits on-off, high-low, ready-operate, start-stop, raise-lower, etc., type information by shifting the carrier frequency. Insensitivity to noise and phase variations; reduction of bias distortion; toleration of wide variations in line and path attenuation; and minimization of false operation due to spurious signals is provided by this frequency-shift type of transmission. Reliability is further enhanced by the 35 db (minimum) adjacent channel receive filter rejection which reduces cross-fire, crosstalk and noise to a minimum.

There are 116 frequency allocations to choose from with the Lynch B770 to provide up to 89 simultaneous data channels from 420 to 30,500 cycles. Twenty-four of these channels are in the voice frequency band and an additional 65 high frequency channels are available for direct application to the transmission medium. The same B770 transmitters and receivers may be used on cable, wire line or microwave because the transmitter level may be adjusted from +5 dbm for wire line or cable to -35 dbm for microwave. Corresponding receiver sensitivity is adjustable from -10 dbm to -50 dbm.

Optional equipment includes: telegraph terminating unit and hub jackfield to provide half-duplex, full duplex or polar service with hub repeaters; three-frequency keying (mark, center, space) transmitters and receivers; dial selective control system for control of up to 18 on-off functions; and the Lynch Transmission Interference Eliminator which is designed to: (1) detect and discard a message subject to transient or impulse noise interference of short duration; (2) inhibit readout of false information in the presence of an abnormally high thermal noise level; (3) provide an alarm of unreliable data transmission conditions.

POWER LINE CARRIER SYSTEM — E500

Sixteen single sideband, toll quality; full duplex communication circuits are now available on one power line phase wire for voice, relaying or data transmission. Lynch "Powerwave" baseband line treatment and a new high pass coupling technique provided a usable spectrum of almost 160 kc on a single phase wire without tuned traps or other narrow band devices.

Proven Lynch carrier systems and directional filters are utilized to accomplish duplex operation over the simplex phase wire with this new coupler to provide the full 16 channels of communication. A series of Lynch "Powerwave" baseband dividing filters accommodate the branching of circuits at line taps to provide intermediate points of communication.

This new sixteen-channel Power Line Communication System consists of (1) a high inductance, untuned carrier current coupling inductance; (2) a high capacity coupling capacitor; (3) a coupling unit; (4) repeat coil assemblies for matching impedances between the entrance cable and the carrier equipment; (5) directional band pass filters built into the carrier equipment; (6) auxiliary directional band filters for special applications; (7) dividing filters for impedance separation at branch-taps; (8) 12 channels of the Lynch E500 Carrier System, a modified version of the B500 single sideband "O" type carrier; and (9) four channels of B60PL single sideband, power line carrier. Any of the four-channel carrier allocations may be utilized to provide approximately 40 kc for relaying channels and required filters. Balanced cable (RG22 or equal) is recommended at the carrier terminating points to remove the presence of 60 cycle ground currents and reduce noise induction in the system.

LYNCH COMMUNICATION SYSTEMS

MICROWAVE MICROPLEX — B910B

The Lynch B910B Type Multiplexing Equipment is a solid state, high density radio multiplexing system using single-sideband, suppressed carrier transmission to provide a maximum number of channels on a minimum cost-per-channel basis.

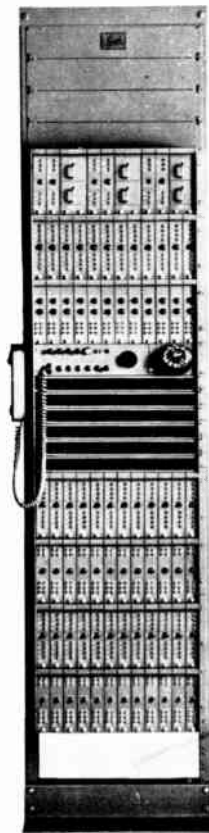
In conformance with CCITT recommendations, the B910B system will provide 600 channels of communication between 60 and 2540 kc, with the channels spaced at 4 kc intervals and derived in the form of basic 12 channel groups. Five such groups are then combined to form a supergroup. Ten supergroups are then combined to form the 600 channel system. Additional channels below 60 kc may be individually added to provide the full 612 channel complement.

The B910B system is available with either individual channel oscillators or master frequency generators; standard or regulating group modems; inband 2600 cps or out-of-band 3825 cps signaling for E & M, AC ringdown or one-way loop dial signaling; four-wire terminating sets with or without A & B leads; top-of-bay terminal blocks with interconnecting cables; optional wideband 8 kc channels for data applications; and a telephone terminating test panel to provide talking and signaling facilities at carrier and drop terminations.

The B910B is available in three modulation plans so that the most economical system may be selected for a particular application. The Lynch "A" and "B" plans provide 120 and 96 channels, respectively, without supergroup equipment in the spectrum from 60 to 552 kc occupied by CCITT supergroups 1 and 2. In addition, plan "A" may be expanded to 600 channels and "B" plan to 480 channels. The "B" plan provides for economical breakout and reinsertion of 12 channel groups, or less, at repeater points along the microwave path by means of dividing filters inserted directly into the microwave baseband without the loss of channels within the 12-channel group. The third modulation plan conforms exactly to CCITT recommendations.

MICROWAVE BASEBAND DIVIDING FILTERS

Passive baseband treatment with extensive line of dividing filters provides drop and insert capability without using active equipment. Minimum out-of-band rejection for each filter selection is 35 db. Over 30 types of filters available.



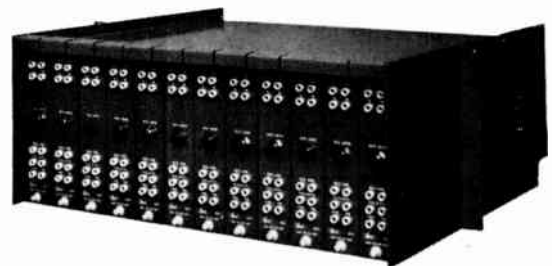
B910B Microwave Multiplex

36 Channels with individual oscillators, 3 Regulating Group Modems; 24 B850 Inband Signaling Units with built-in 4W Terminating Sets; 12 B840 Out-of-Band Signaling Units; 4W VF and 2W VF and Signaling Jackfields with HF Line and equipment jacks for Channel and Group buses; a K103D Telephone Terminating Test Panel; and Top-of-Bay Terminal Blocks in a 7" 6", 19" rack. Price on application.

MICROWAVE BASEBAND COMBINERS

Passive branching networks provide up to six four-wire microwave baseband facilities on a party line basis, each with a frequency response of 300 cycles to 3 megacycles. Optional redundant wide-band amplifiers and pad assemblies available as required.

SIGNALING SYSTEMS

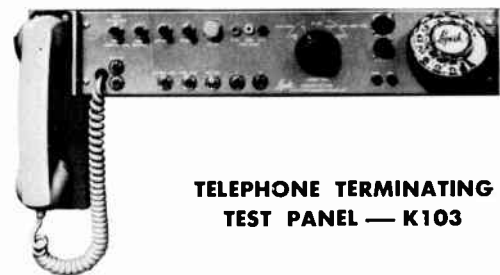


INBAND SIGNALING SYSTEM — B850

Transistorized, single frequency, inband signaling system provides signaling on a compatible basis with Western Electric single frequency "E" type signaling for use on wire line, cable or microwave circuits.

OUT-OF-BAND SIGNALING SYSTEM — B840

Transistorized. Provides CCITT 3825 cycle out-of-band signaling for economical application on Lynch B410 cable carrier or B910B multiplex.



TELEPHONE TERMINATING TEST PANEL — K103

An on-location testing facility at carrier terminals, the K103 can be used to talk and signal over E & M dial carrier or trunk; subscriber loop dial carrier to switchboard or termination; AC ringdown channel termination. Operates on 48 or 24 VDC battery or 117 VAC.

FILTERS AND FILTER ASSEMBLIES

The most complete selection of filters in the industry. Filters for wire line, cable and microwave applications. High Pass, Low Pass, Band Pass, Line Filter Network, Line Filter with special Simulating Networks, Band Elimination for Carrier or Tone Channels, High Voltage, High Pass Transfer, Line Coupling Networks, Dividing, Low Pass Roof Filters and Way Station Filters. Mounting Assemblies for Pole Mount or Rack Mount available.

Contact Graybar for Complete Information

TOTAL GRAYBAR LIGHTING

LIGHTING TIPS

1. For good distribution of light, distance between outside rows of fixtures and walls should not be more than half the space between rows of fixtures.
2. Ends of fixture rows should come within 1 or 2 feet of walls.
3. Fixtures should not be placed farther apart than their mounting height for uniform light. Closer spacing will result in better distribution of light and fewer shadows.
4. For best visual comfort in offices and schools, fixtures should be installed with luminous sides so that workers can see fixture ends in main viewing direction instead of sides.

5. Properly designed metal-sided fixtures with good end shielding can be installed in most any direction.
6. Recessed troffers and industrial fluorescent fixtures without louvers are most comfortable viewed from the sides.
7. Maintained light is important . . . lighting maintenance means adequate lighting for the entire installation. Scheduled fixture cleaning and relamping is important.
8. Wall colors and environmental effects should be included in your plans for effective, pleasant and comfortable lighting.

GRAYBAR OFFERS TOTAL LIGHTING

Well balanced lighting for every application is available from Graybar . . . from the most minute tasks to illuminating building facades and sports areas. Good lighting improves efficiency, eliminates many accidents and errors . . . aids security and accentuates the value and beauty of materials. Graybar can supply TOTAL LIGHTING for all applications . . . industrial, stores, schools, home . . . in explosive areas or vapor conditions . . . anywhere lighting is needed.

HOW MUCH LIGHT IS NEEDED?

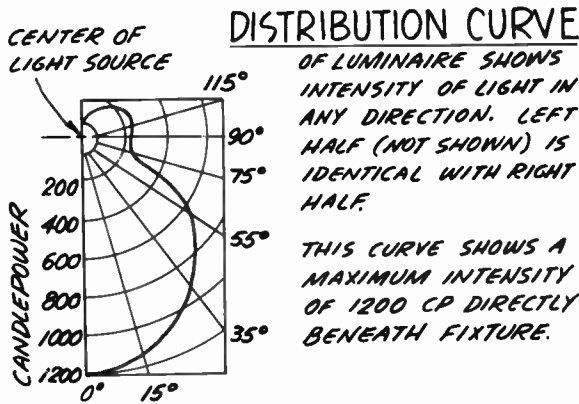
The following is a listing of the current IES minimum requirements. If needed, please ask your local Graybar office for a more comprehensive listing of recommended illumination levels.

INDUSTRIAL AREAS	Recommended Minimum Footcandles	OUTDOOR AREAS	Recommended Minimum Footcandles
ASSEMBLY Rough easy seeing	30	BUILDING EXTERIORS (In bright surroundings)	
Rough difficult seeing	50	Light surfaces	15
Medium	100	Medium dark surfaces	30
Fine	500	Dark surfaces	50
Extra fine	1000		
CLOTH PRODUCTS Cloth inspection	2000*	GENERAL BUILDING CONSTRUCTION (Work lighting)	20
Cutting	300*		
Sewing	500*	GASOLINE SERVICE STATIONS (Entrance drives)	10
Pressing	300*		
INSPECTION Ordinary	50	LOADING AND UNLOADING PLATFORMS, FREIGHT DOCKS	20
Difficult	100		
Highly difficult	200*	PARKING AREAS	
Very difficult	500*	Self-parking	1
Most difficult	1000*	Attendant-parking	2
		Shopping centers (customer attraction device)	5
MACHINE SHOPS Rough bench and machine work	50	TRANSPORTATION — TERMINAL AND STATION AREAS	
Medium bench and machine work	100	Ticket offices, counters, general	100
Fine bench and machine work	500*	Waiting rooms, rest rooms	30
Extra fine bench and machine work	1000*	Baggage checking	50
SHEET METAL SHOPS Ordinary bench work, presses, shears, stamps	50	Storage	20
Scribing, inspecting	200	Platforms	20
SHIPYARDS General	5	COMMERCIAL AREAS	
Fabricating areas	30	LIBRARIES, reading rooms	70
SHOE MANUFACTURING Cutting, stitching	300*		
Making and finishing	200	OFFICES	
Sole rolling, lining	100	General — regular office work	100
STORAGE AREAS (Indoors) Active		Bookkeeping, accounting	150
Rough bulky	30	Drafting	200
Medium	50	Corridors, escalators, elevators, stairways	20
Fine	100	PUBLIC BUILDINGS (Banks)	
Inactive	10	Lobby, general	50
STORAGE YARDS (Outdoors) Active	20	Lobby, writing areas	70
Inactive	1	Tellers' stations	150
WOODWORKING Rough sawing and bench work	50	Posting and keypunching	150
Sizing, planing, rough sanding, glueing	100	SCHOOLS	
Fine bench and machine work, fine sanding, finishing	200	Regular classroom work	70
		Sightsaving, lipreading classrooms	150
		Shops, drafting rooms	100
RECREATION AREAS		STORES (Merchandise areas)	
BASEBALL FIELDS (Municipal, recreational) Infield	20	Service	100
Outfield	10	Self-service	200
FOOTBALL FIELDS Seating capacity under 5000; max. viewing distance 30 feet from sidelines	20	STORES (Feature displays)	
Practice	10	Service	500
SWIMMING POOLS Deck and pool	20	Self-service	1000
		STORES (Showcases and wallcases)	
		Service	200
		Self-service	500
		SHOW WINDOWS (Daytime)	
		General	200
		Feature	1000

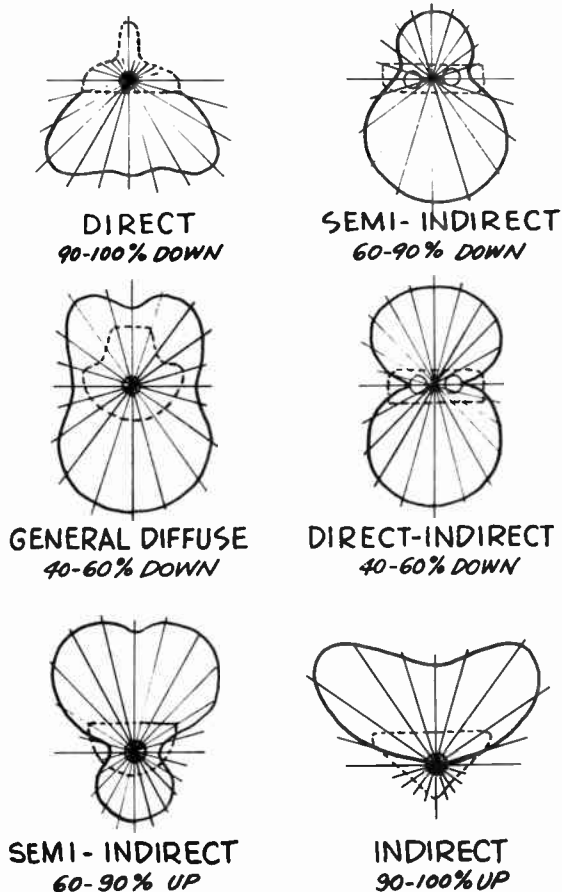
*Often obtained with a combination of general lighting plus specialized supplementary lighting.

TOTAL GRAYBAR LIGHTING
LIGHTING TIPS

LIGHT DISTRIBUTION— This is the pattern of light output from the luminaire. Uniformity of lighting level over an area is important in many installations where visual tasks are rigorous and continuous. In such cases, the width of light spread from the fixture must be related to the number of luminaires to be used, the mounting height of the units and the spacing between units — all factors related to uniform footcandle intensity over the lighted area. But, where design calls for accent lighting of local areas and for definite light coverage in a vertical plane — such as lighting of the wall at the back of a work bench — the problem of luminaire selection is quickly narrowed down to luminaires which have the required distribution pattern.

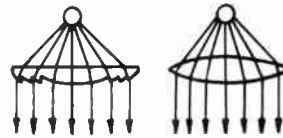


LUMINAIRE CLASSIFICATIONS



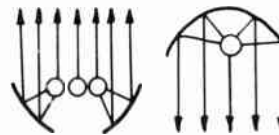
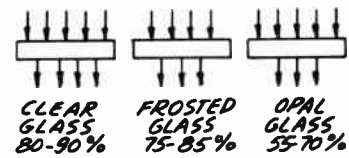
Control of light by a luminaire is a function of the particular construction of the luminaire. A luminaire for an incandescent or a gaseous discharge lamp may have one or more aluminum, porcelain or baked white enamel interior reflecting surfaces which redirect various portions of the lamp lumen

LIGHT CONTROL



REFRACTION
THROUGH LENSES
AND PRISMATIC
SURFACES

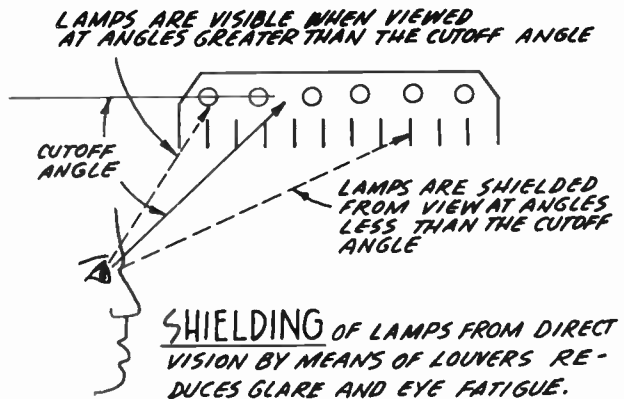
TRANSMISSION
THROUGH VARIOUS
LENSES AND
DIFFUSERS



REFLECTION
FROM PROPERLY
DESIGNED LUMINAIRE
SURFACES

output. Louvers or baffles may be used to diffuse the light, to shield the bare lamp and to eliminate objectionable surface brightness of the unit. A wide range of diffusing glass and plastic and various lighting control lenses are in common use for shielding and control.

LIGHT QUALITY— The quality of the lighting result in any installation will usually limit the number of luminaire types from which selection must be made. For instance, to minimize direct glare into the eyes of office workers, say, a flush-mounted (recessed) or surface-mounted luminaire will often be preferred over a stem-mounted unit because the higher mounting position on or in the ceiling will place the unit above the normal viewing angle — above the natural cut-off effect of the worker's eyebrows. Or, a luminaire with luminous side panels or a side-lighting component may be used to reduce the brightness contrast between the unit and its surroundings, such as the ceiling area adjoining a surface-mounted ceiling fixture.



ELECTRICAL SYMBOLS FOR ARCHITECTURAL PLANS

In Accordance with American Standards Association Standard ASA Y32.-9-1943

GENERAL OUTLETS

Symbol		Description
Ceiling	Wall	
○	—○	Outlet.
⊖	—⊖	Blanked Outlet.
⊙		Drop Cord.
⊕	—⊕	Electrical Outlet — for use only when circle used alone might be confused with columns, plumbing symbols, etc.
⊞	—⊞	Fan Outlet.
⊚	—⊚	Junction Box.
⊛	—⊛	Lamp Holder.
⊜	—⊜	Lamp Holder with Pull Switch.
⊝	—⊝	Pull Switch.
⊞	—⊞	Outlet for Vapor Discharge Lamp.
⊘	—⊘	Exit Light Outlet.
⊙	—⊙	Clock Outlet. (Specify Voltage).

CONVENIENCE OUTLETS

⊞	Duplex Convenience Outlet.
⊞ _{1,3}	Convenience Outlet other than Duplex. 1 = Single, 3 = Triplex, etc.
⊞ _{WP}	Weatherproof Convenience Outlet.
⊞ _R	Range Outlet.
⊞ _S	Switch and Convenience Outlet.
⊞ _□	Radio and Convenience Outlet.
⊞ _▲	Special Purpose Outlet (Des. in Spec.).
⊙	Floor Outlet.

SWITCH OUTLETS

S	Single Pole Switch.
S ₂	Double Pole Switch.
S ₃	Three-Way Switch.
S ₄	Four-Way Switch.
S _D	Automatic Door Switch.
S _E	Electrolier Switch.
S _K	Key Operated Switch.
S _P	Switch and Pilot Lamp.
S _{CB}	Circuit Breaker.
S _{WCB}	Weatherproof Circuit Breaker.
S _{MC}	Momentary Contact Switch.
S _{RC}	Remote Control Switch.
S _{WP}	Weatherproof Switch.
S _F	Fused Switch.
S _{WF}	Weatherproof Fused Switch.

SPECIAL OUTLETS

○_{a,b,c-etc.}
 ⊞_{a,b,c-etc.}
 S_{a,b,c-etc.}

Any Standard Symbol as given above with the addition of a lower case subscript letter may be used to designate some special variation of Standard Equipment of particular interest in a specific set of architectural plans.

When used they must be listed in the Key of Symbols on each drawing and if necessary further described in the specifications.

PANELS, CIRCUITS AND MISCELLANEOUS

Symbol	Description
■	Lighting Panel.
▨	Power Panel.
—	Branch Circuit; Concealed in Ceiling or Wall.
---	Branch Circuit; Concealed in Floor.
----	Branch Circuit; Exposed.
→	Home Run to Panel Board. Indicate number of Circuits by number of arrows.
<p>Note: Any circuit without further designation indicates a two-wire circuit. For a greater number of wires indicate as follows: +++ (3 wires) ++++ (4 wires), etc.</p>	
—	Feeders. Note: Use heavy lines and designate by number corresponding to listing in Feeder Schedule.
≡	Underfloor Duct and Junction Box. Triple System. Note: For double or single systems eliminate one or two lines. This symbol is equally adaptable to auxiliary system layouts.
⊙	Generator.
⊚	Motor.
⊙	Instrument.
⊙	Power Transformer. (Or draw to scale.)
⊞	Controller.
□	Isolating Switch.

AUXILIARY SYSTEMS

□	Push Button.
□	Buzzer.
□	Bell.
◇	Annunciator.
◀	Outside Telephone.
◀	Interconnecting Telephone.
◀	Telephone Switchboard.
⊙	Bell Ringing Transformer.
⊙	Electric Door Opener.
⊞	Fire Alarm Bell.
⊞	Fire Alarm Station.
⊞	City Fire Alarm Station.
⊞	Fire Alarm Central Station.
⊞	Automatic Fire Alarm Device.
⊞	Watchman's Station.
⊞	Watchman's Central Station.
⊞	Horn.
⊞	Nurse's Signal Plug.
⊞	Maid's Signal Plug.
⊞	Radio Outlet.
⊞	Signal Central Station.
⊞	Interconnection Box.
⊞	Battery.
⊞	Auxiliary System Circuits.

Note: Any line without further designation indicates a 2-Wire System. For a greater number of wires designate with numerals in manner similar to 12 — No. 18W-3/4"-C., or designate by number corresponding to listing in Schedule.

□_{a,b,c} Special Auxiliary Outlets.
 Subscript letters refer to notes on plans or detailed description in specifications.

ELECTRICAL FORMULA FOR DETERMINING AMPERES, HORSEPOWER, KILOWATTS AND KILOVOLT-AMPERES

Desired Data	Alternating Current	
	Single Phase	*Two-Phase Four-Wire
Kilowatts	$I_x E_x \cos. \theta$	$I_x E_x 2x \cos. \theta$
	1000	1000
Kva.	$I_x E_x$	$I_x E_x 2$
	1000	1000
Horsepower Output	$I_x E_x \% \text{Eff.} x \cos. \theta$	$I_x E_x 2x \% \text{Eff.} x \cos. \theta$
	746	746
Amperes when Hp. is Known	$H_p. x 746$	$H_p. x 746$
	$E_x \% \text{Eff.} x \cos. \theta$	$2x E_x \% \text{Eff.} \cos. \theta$
Amperes when Kilowatts is Known	$K_w. x 1000$	$K_w. x 1000$
	$E_x \cos. \theta$	$2x E_x \cos. \theta$
Amperes when Kva. is Known	$K_{va.} x 1000$	$K_{va.} x 1000$
	E	2xE
Desired Data	A-C. Three-Phase	D-C.
Kilowatts	$I_x E_x 1.73x \cos. \theta$	$I_x E$
	1000	1000
Kva.	$I_x E_x 1.73$	.....
	1000	.....
Horsepower Output	$I_x E_x 1.73x \% \text{Eff.} x \cos. \theta$	$I_x E_x \% \text{Eff.}$
	746	746
Amperes when Hp. is Known	$H_p. x 746$	$H_p. x 746$
	$1.73x E_x \% \text{Eff.} x \cos. \theta$	$E_x \% \text{Eff.}$
Amperes when Kilowatts is Known	$K_w. x 1000$	$K_w. x 1000$
	$1.73x E_x \cos. \theta$	E
Amperes when Kva. is Known	$K_{va.} x 1000$	.....
	1.73xE	.....

*In two-phase, three wire circuits the current in the common conductor is 1.41 times that in either other conductor.
 Note: E = Volts; I = Amperes; %Eff. = Per Cent Efficiency; Cos.θ = Power Factor.

WIRING FORMULA

For determining the correct wire size for an installation, an adaptation of ohms law may be used. The formula below affords a means of computation which includes the effect of voltage drop.

Equation 1 — Circular Mils = $\frac{R \times L \times I}{VD}$

Where —

L = Length of Wire in Feet

- (a) For single phase — use twice the length of the circuit.
- (b) For three phase circuits, use 1.73 times the length of the circuit.

I = Current per conductor.

VD = Allowable or desired voltage drop in circuit.

R = Resistance per mil-foot of conductor at 20 degrees centigrade.

FOR COPPER WIRE — 11 ohms
 FOR ALUMINUM WIRE — 17.25 ohms

MISCELLANEOUS INFORMATION

- Latent heat of vaporization of water = 970 BTU per lb.
- Latent heat of melting of water = 144 BTU per lb.
- To evaporate 1 lb. water from and at 212° = 16.859 Kw. minutes.
- To evaporate 1 lb. water from and at 212° = 0.281 Kw. hours.
- Weight per cu. ft. of water = 62.42 lb.
- Weight per gallon of water = 8.33 lb.

UNITS OF MEASURE

The following mechanical units of the Metric system are International Standards. From these Metric units electrical units are derived and converted for engineering use.

Meter—The fundamental unit of length in the Metric system; one ten-millionth of the distance along a meridian from the pole to the equator; approximately 39.37 inches.

Gram—The fundamental unit of mass or, practically, of weight. Equals the weight of a cubic centimeter of water at a temperature of 4 degrees Centigrade.

Second—A unit of time, 1/60 of a minute; a unit of angular measure, 1/60 of a minute of arc.

ELECTRICAL UNITS

Volt—The practical unit of electromotive force; the electrical pressure which will cause a current of one ampere to flow through a resistance of one ohm. The force which will charge a condenser of one farad capacity with a coulomb of electricity.

Ohm—The practical unit of the resistance of a material to the flow of current. That resistance which will permit the flow of one ampere when a voltage of one volt is imposed across the resistance.

Ampere—The practical unit of the rate of flow of electrical charge; one coulomb per second across any given cross-section of a circuit. The current that will flow in a resistance of one ohm when an electromotive force of one volt is impressed across the resistance.

Coulomb—A quantity of electrons; the quantity of electrons passing any given cross-section of a circuit when a current of one ampere flows for one second. The quantity of charge stored in a condenser of one farad when subjected to an e.m.f. of one volt.

Farad—The practical unit of electrical capacity. The capacitance of a condenser whereby a stored charge of one coulomb produces an e.m.f. of one volt.

Watt—The practical unit of electrical power. The rate of expenditure of electrical energy. One joule per second.

Joule—The practical unit of energy or work. The work done to raise the potential of one coulomb one volt.

THE CIRCULAR MIL

The standard unit of wire cross-section in English and American wire tables. Equals the area of a circle whose diameter is one mil (0.001 inch).

To obtain the number of circular mils in a solid wire of a given diameter, express the diameter in mils and then square it.

To obtain the diameter of a solid wire having a given number of circular mils, take the square root of the circular mils and the result is the diameter in mils.

One circular mil equals 0.7854 square mils.

OHM'S LAW

The relationships between current, voltage and resistance in a circuit are expressed by Ohm's law. Where I = current in amperes, E = voltage in volts, and R = resistance in ohms, the following relations permit any one value to be found when the other two are known:

(1) To find the current through a circuit when the voltage across the circuit and the resistance of the circuit are known:

$$I = \frac{\text{Voltage } E}{\text{Resistance } R}$$

(2) To find the voltage across a circuit when the resistance of the circuit and the current through it are known:
 E = Current x Resistance = IR

(3) To find the resistance of a circuit when the current through it and the voltage across it are known:

$$R = \frac{\text{Voltage } E}{\text{Current } I}$$

VOLTAGE DROP TABLE

CIRCUIT FOOTAGE FOR 3% DROP

3 Amp. thru 125 Amp.

Size AWG	3 Amp	6 Amp	15 Amp	20 Amp	25 Amp	35 Amp	50 Amp	70 Amp	80 Amp	90 Amp	100 Amp	125 Amp
18	83	...	...	...	...	...	...	...	...	...	...	...
16	131	66	...	...	...	...	...	...	...	...	...	...
14	209	104	42	...	...	...	...	...	...	...	...	...
12	330	166	66	50	...	...	...	...	...	...	...	...
10	528	264	105	79	63	...	...	...	...	...	...	...
8	840	420	168	126	100	72	...	...	...	...	...	...
6	1336	668	267	200	160	114	90	...	...	...	...	...
4	2125	1062	424	318	255	182	127	91	...	...	...	...
3	2680	1340	536	402	321	229	160	114	100	...	...	...
2	3379	1689	679	507	405	289	202	144	126	112	...	...
1	4262	2131	852	639	511	365	255	182	159	142	127	...
0	5372	2686	1074	806	644	460	322	230	201	179	161	128
00	6778	3389	1355	1016	813	581	405	290	254	225	203	162
000	8543	4272	1709	1281	1025	732	512	366	320	284	256	205
0,000	...	5387	2155	1616	1293	923	646	461	404	359	323	258
250,000	...	...	2546	1911	1527	1091	763	545	477	424	381	305
300,000	...	...	3055	2291	1833	1309	916	654	572	509	458	366
350,000	...	...	...	2673	2138	1526	1069	763	667	594	534	427
400,000	...	...	...	3055	2444	1746	1222	873	763	679	611	488
500,000	...	...	...	...	3055	2182	1527	1091	934	848	763	611
600,000	...	...	...	...	...	2619	1833	1309	1145	1018	916	733
700,000	...	...	...	...	...	3055	2138	1527	1336	1188	1069	855

150 Amp. thru 525 Amp.

Size AWG	150 Amp	175 Amp	225 Amp	250 Amp	275 Amp	300 Amp	325 Amp	400 Amp	450 Amp	500 Amp	525 Amp
00	135	...	...	...	...	...	...	...	...	...	...
000	170	146	...	...	...	...	...	...	...	...	...
0,000	215	184	143	...	...	...	...	...	...	...	...
250,000	254	218	169	152	...	...	...	...	...	...	...
300,000	305	261	203	183	166	...	...	...	...	...	...
350,000	356	305	237	213	194	178	...	...	...	...	...
400,000	407	349	271	244	220	203	188	...	...	...	...
500,000	509	436	339	305	277	254	235	190	...	...	...
600,000	611	523	407	366	333	305	282	229	203	...	...
700,000	712	611	475	427	389	356	329	267	237	213	...
750,000	763	654	509	458	416	381	352	286	254	229	218
800,000	814	698	543	488	444	407	376	305	271	244	232
900,000	916	785	611	550	500	458	423	343	305	275	261
1,000,000	1018	873	679	611	555	509	470	381	339	305	291
1,100,000	1120	960	746	672	611	560	517	420	373	336	320
1,200,000	1222	1047	814	733	666	611	564	458	407	366	349
1,300,000	1324	1134	882	794	722	662	611	496	441	397	378
1,400,000	1425	1222	950	855	777	712	657	534	475	427	407
1,500,000	1527	1309	1018	916	832	763	705	572	509	458	436
1,600,000	1628	1396	1064	976	888	814	752	611	532	488	465
1,700,000	1728	1484	1154	1038	944	864	799	649	577	519	495
1,800,000	1832	1571	1222	1110	1000	916	846	687	611	555	523
1,900,000	1932	1664	1290	1160	1054	966	892	725	645	580	555
2,000,000	2036	1746	1358	1222	1110	1018	940	763	679	611	582

550 Amp. thru 1050 Amp.

Size AWG	550 Amp	600 Amp	650 Amp	690 Amp	730 Amp	770 Amp	810 Amp	850 Amp	890 Amp	930 Amp	970 Amp	1010 Amp	1050 Amp
800,000	222	...	...	...	...	...	...	...	...	...	...	...	...
900,000	250	229	...	...	...	...	...	...	...	...	...	...	...
1,000,000	277	254	235	...	...	...	...	...	...	...	...	...	...
1,100,000	305	280	258	243	...	...	...	...	...	...	...	...	...
1,200,000	333	305	282	265	251	...	...	...	...	...	...	...	...
1,300,000	361	331	305	287	272	258	...	...	...	...	...	...	...
1,400,000	388	356	328	309	292	277	264	...	...	...	...	...	...
1,500,000	416	381	352	332	313	297	282	269	...	...	...	...	...
1,600,000	444	407	376	354	334	339	301	287	274	...	...	...	...
1,700,000	472	432	399	376	355	361	320	305	291	279	...	...	...
1,800,000	500	458	423	398	376	382	339	323	308	295	283	...	...
1,900,000	527	483	446	420	397	403	358	341	325	312	299	287	...
2,000,000	555	509	470	442	418	424	377	359	343	328	315	302	291

Notes: Table calculated for 110 volts, direct current. The footages shown are approximate for single-phase and two-phase at unity power factor. For three-phase the above footage may be increased by approximately 12%.

The following factors may be used for other voltages: 220 volts, multiply by 2; 440 volts, multiply by 4; 550 volts, multiply by 5; 2200 volts, multiply by 20.

For 1% drop allow one-third the footage shown. For 2% drop allow two-thirds the footage shown.

(By Courtesy of International Association of Electrical Inspectors.)

MOTOR AND WIRE RATING DATA

WIRE, FUSE AND CIRCUIT BREAKER SELECTION TABLES

For Motor Branch Circuits — Adopted From 1965 N.E. Code

For exceptions, see note at head of table 430-146, 1962 N. E. C., also see paragraphs 430-22, 430-24, 430-34, and 430-59 of 1962 N. E. C.

Full load current rating of motor Amps.	Min. allowable size of copper conductor A.W.G. or Cir. Mil. for four conductors in raceways.		For running protection of motors		Maximum Allowable Rating of Setting of Branch Circuit Protective Devices					
	Type R, RW, RU, RW	Type RH	Max. setting non-adjustable protective devices Amps.	Max. setting adjustable protective devices Amps.	Single phase, squirrel-cage, and synchronous, (full voltage, reactor and resistor starting)		Squirrel cage and synchronous (auto-transformer starting).		D.C. and Wound Rotor A.C. (Without code letters)	
					1 Max. allowable rating of br. circuit fuses Amps.	2 Max. allowable circuit breaker rating Amps.	1 Max. allowable rating of br. circuit fuses Amps.	2 Max. allowable circuit br. rating squirrel cage and synchronous (auto-transformer starting) Amps.	1 Max. allowable rating of branch circuit fuses Amps.	2 Max. allowable circuit breaker rating Amps.
	Thermo-Plastic Type T 14-4/0 Type TW 14-4/0									
1	14	14	5	1.25	15	15	15	15	15	15
2	14	14	5	2.50	15	15	15	15	15	15
3	14	14	5	3.75	15	15	15	15	15	15
4	14	14	5	5.00	15	15	15	15	15	15
5	14	14	5	6.25	15	15	15	15	15	15
6	14	14	5	7.50	20	15	15	15	15	15
7	14	14	5	8.75	25	20	20	15	15	15
8	14	14	5	10.00	25	20	20	20	15	15
9	14	14	5	11.25	30	30	25	20	15	15
10	14	14	5	12.5	30	30	25	20	15	15
12	14	14	5	15.0	40	30	30	30	20	20
14	12	12	5	17.5	45	40	35	30	25	30
16	12	12	5	20.0	50	40	40	40	25	30
18	10	10	5	22.5	60	50	45	40	30	30
20	10	10	5	25.0	60	50	50	40	30	30
22	10	10	5	27.5	70	70	60	50	35	40
24	10	10	5	30.0	80	70	60	50	40	40
26	8	8	5	32.5	80	70	70	70	40	40
28	8	8	5	35.0	90	70	70	70	45	50
30	8	8	5	37.5	90	100	80	70	45	50
32	8	8	5	40.0	100	100	70	70	50	50
34	6	8	5	42.5	110	100	70	70	60	70
36	6	8	5	45.0	110	100	80	100	60	70
38	6	6	5	47.5	125	100	80	100	60	70
40	6	6	5	50.0	125	100	80	100	60	70
42	6	6	5	52.5	125	125	90	100	70	70
44	6	6	5	55.0	125	125	90	100	70	70
46	4	6	5	57.5	150	125	100	100	70	70
48	4	6	5	60.0	150	125	100	100	80	100
50	4	6	5	62.5	150	125	100	100	80	100
52	4	6	5	65.0	175	150	110	125	80	100
54	4	4	5	67.5	175	150	110	125	90	100
56	4	4	5	70.0	175	150	125	125	90	100
58	3	4	5	72.5	175	150	125	125	90	100
60	3	4	5	75.0	200	150	125	125	90	100
62	3	4	5	77.5	200	175	125	125	100	100
64	3	4	5	80.0	200	175	150	150	100	100
66	2	4	5	82.5	200	175	150	150	100	100
68	2	4	5	85.0	225	175	150	150	110	125
70	2	3	5	87.5	225	175	150	150	110	125
72	2	3	5	90.0	225	200	150	150	110	125
74	2	3	5	92.5	225	200	150	150	125	125
76	2	3	5	95.0	250	200	175	175	125	125
78	1	3	5	97.5	250	200	175	175	125	125
80	1	3	5	100.0	250	200	175	175	125	125
82	1	2	5	102.5	250	225	175	175	125	125
84	1	2	5	105.0	250	225	175	175	150	150
86	1	2	5	107.5	300	225	175	175	150	150
88	1	2	5	110.0	300	225	200	200	150	150
90	0	2	5	112.5	300	225	200	200	150	150
92	0	2	5	115.0	300	250	200	200	150	150
94	0	1	5	117.5	300	250	200	200	150	150
96	0	1	5	120.0	300	250	200	200	150	150
98	0	1	5	122.5	300	250	200	200	150	150
100	0	1	5	125.0	300	250	200	200	150	150
105	00	1	5	131.5	350	300	225	225	175	175
110	00	0	5	137.5	350	300	225	225	175	175
115	00	0	5	144.0	350	300	250	250	200	200
120	000	C	5	150.0	400	300	250	250	200	200
125	000	00	5	156.5	400	350	250	250	200	200
130	000	00	5	162.5	400	350	300	300	200	200
135	0000	00	5	169.0	450	350	300	300	225	225
140	0000	00	5	175.0	450	350	300	300	225	225
145	0000	000	5	181.5	450	400	300	300	225	225
150	0000	000	5	187.5	450	400	300	300	225	225

1 Adapted from Table 430-146, N. E. C. Code.
 2 The N. E. C. classifies motors by code letters. The values shown are for motors with code letters F to V inclusive and motors without code letters. For motors with code letters A to E inclusive refer to N. E. Code, Tables 430-146 and 430-152.
 3 Adapted from Table 430-153, N. E. C. Code.
 4 For the grouping of small motors under the protection of a single set of fuses see Section 430-53 N. E. Code.
 5 For the running protection of motors of 1 H.P. and less see Section 430-32 N. E. Code.

NEMA† DESCRIPTIONS OF ELECTRICAL EQUIPMENT ENCLOSURES

Type 1—General Purpose

A general purpose enclosure is intended primarily to prevent accidental contact with the enclosed apparatus. It is suitable for general-purpose applications indoors where it is not exposed to unusual service conditions.

Type 2—Drip-Tight

A drip-tight enclosure is intended primarily to prevent accidental contact with the enclosed apparatus and, in addition, is so constructed as to exclude falling moisture or dirt.

Type 3—Weatherproof (Weather-Resistant)

A weatherproof enclosure is intended to provide suitable protection against specified weather hazards. It is suitable for use outdoors.

Type 3R—Raintight

A raintight enclosure is intended primarily to meet the requirements for raintight (definition No. 7 of appended list) apparatus. It is suitable for general applications outdoors where sleet-proof construction is not required.

Type 4—Watertight

A watertight enclosure is designed to exclude water applied in the form of a hose stream (ASA C42-1941, 95.90.145)*. It is suitable for application where the apparatus may be subjected to a stream of water during cleaning operations and the like.

*Where a section has adopted its own test description, it may be substituted for the ASA identification.

Type 5—Dust-Tight

A dust-tight enclosure is so constructed as to exclude dust.

Type 6—Submersible

A submersible enclosure is intended to permit the enclosed apparatus to operate successfully when submerged in water under specified conditions of pressure and time.

Type 7 (A, B, C, or D)* Hazardous Locations—Class I—Air Break

These enclosures are designed to meet the application requirements of the National Electrical Code for Class I Hazardous Locations which may be in effect from time to time. In this type of equipment, the circuit interruption occurs in air.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The

type designation is incomplete without a suffix letter or letters.

Type 8 (A, B, C, or D)* Hazardous Locations—Class I—Oil Immersed

These enclosures are designed to meet the application requirements of the National Electrical Code for Class I Hazardous Locations which may be in effect from time to time. The apparatus is immersed in oil.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The type designation is incomplete without a suffix letter or letters.

Type 9 (E, F, or G)* Hazardous Locations, Class II

These enclosures are designed to meet the application requirements of the National Electrical Code for Class II Hazardous Locations which may be in effect from time to time.

*The letter or letters following the type number indicates the particular group or groups of hazardous locations (as defined in the National Electrical Code) for which the enclosure is designed. The designation is incomplete without a suffix letter or letters.

Type 10—Bureau of Mines—Explosion-proof

This enclosure is designed to meet the explosion-proof requirements of the U.S. Bureau of Mines which may be in effect from time to time. It is suitable for use in gassy coal mines.

Type 11—Acid- or Fume-Resistant—Oil Immersed

This enclosure provides for the immersion of the apparatus in oil such that it is suitable for application where the equipment is subject to acid or other corrosive fumes.

Type 12—Industrial Use

An industrial use enclosure is designed for use in those industries where it is desired to exclude such materials as dust, lint, fibers and flyings, oil seepage or coolant seepage.

Type 13—Dust-Proof

A dust-proof enclosure is intended primarily to prevent accidental contact with the enclosed apparatus and, in addition, is so constructed that dust which may enter will not interfere with the operation of the apparatus. The construction of the enclosure can be defined only in relation to the apparatus and to the amount and kind of dust present.

NEMA† DEFINITIONS OF QUALIFYING TERMS

1. Acid-resistant (C42) 95.91.165

Acid-resistant means so constructed that it will not be injured readily by exposure to acid fumes.

2. Dustproof (C42) 95.91.126

Dustproof means so constructed or protected that dust will not interfere with its successful operation.

3. Dust-tight (C42) 95.91.130

Dust-tight means so constructed that dust will not enter the enclosing case.

4. Fume-resistant (C42) 95.91.116

Fume-resistant means so constructed that it will not be injured readily by exposure to the specified fumes.

5. Moisture-resistant (C42) 95.91.140

Moisture-resistant means so constructed or treated that it will not be injured readily by exposure to a moist atmosphere.

6. Oil-tight

Oil-tight means so constructed that oil will not enter the enclosing case.

7. Rain-tight (C42) 95.91.175

Rain-tight means so constructed or protected that exposure to a beating rain will not result in the entrance of water.

8. Sleetproof (C42) 95.91.170

Sleetproof means so constructed or protected

that the accumulation of sleet will not interfere with its successful operation.

9. Splashproof (C42) 95.91.160

Splashproof means so constructed and protected that external splashing will not interfere with its successful operation.

10. Submersible (C42) 95.91.148

Submersible means so constructed that it will operate successfully when submerged in water under specified conditions of pressure and time.

11. Watertight

Water-tight means provided with an enclosing case which will exclude water applied in the form of a hose stream under specified conditions.

12. Weatherproof (Outside Exposure)

(C42) 95.91.186

Weatherproof means so constructed or protected that exposure to the weather will not interfere with its successful operation.

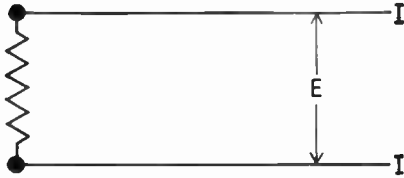
†National Electrical Manufacturers Association.

NOTE: Definitions in the above list bearing the identification "C42" are selected from the Group 95 definitions proposed by Subcommittee 18 of Sectional Committee C42 for inclusion in the next edition of the "American Standard Definitions of Electrical Terms." Numbers at right of each definition refer to "American Standard Definitions of Electrical Terms," published by American Institute of Electrical Engineers, approved by American Standards Association.

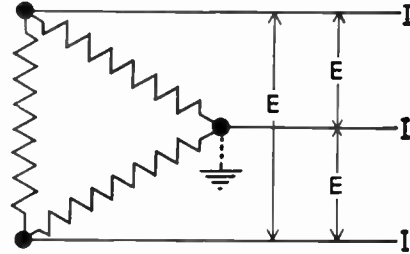
TYPICAL AC SYSTEMS

The sketches below illustrate the more common systems of electrical transmission.

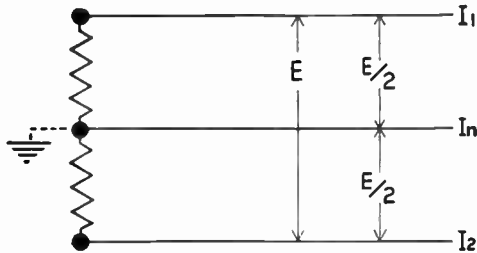
Single phase, Two Wire



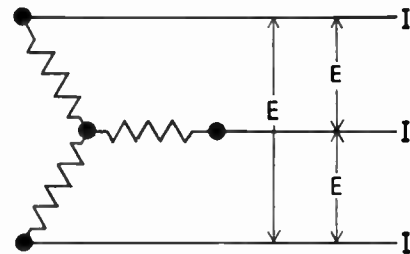
Three phase, Three Wire, Delta



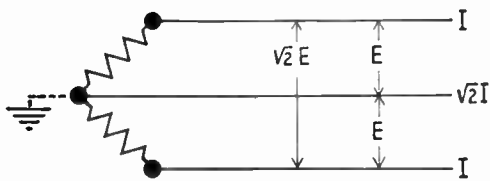
Single phase, Three Wire



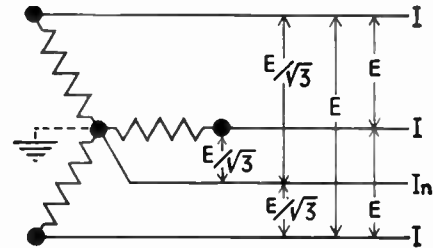
Three phase, Three Wire, Star



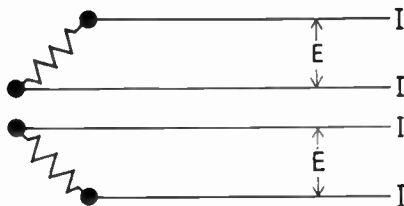
Two phase, Three Wire



Three phase, Four Wire, Star



Two phase, Four Wire



E = Voltage, phase to phase

I = Line current

I_n = Neutral current

Some of the systems may be grounded as indicated thus

All of the above based on balanced circuit.

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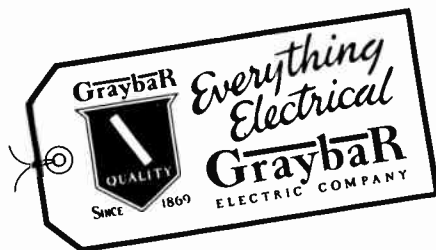
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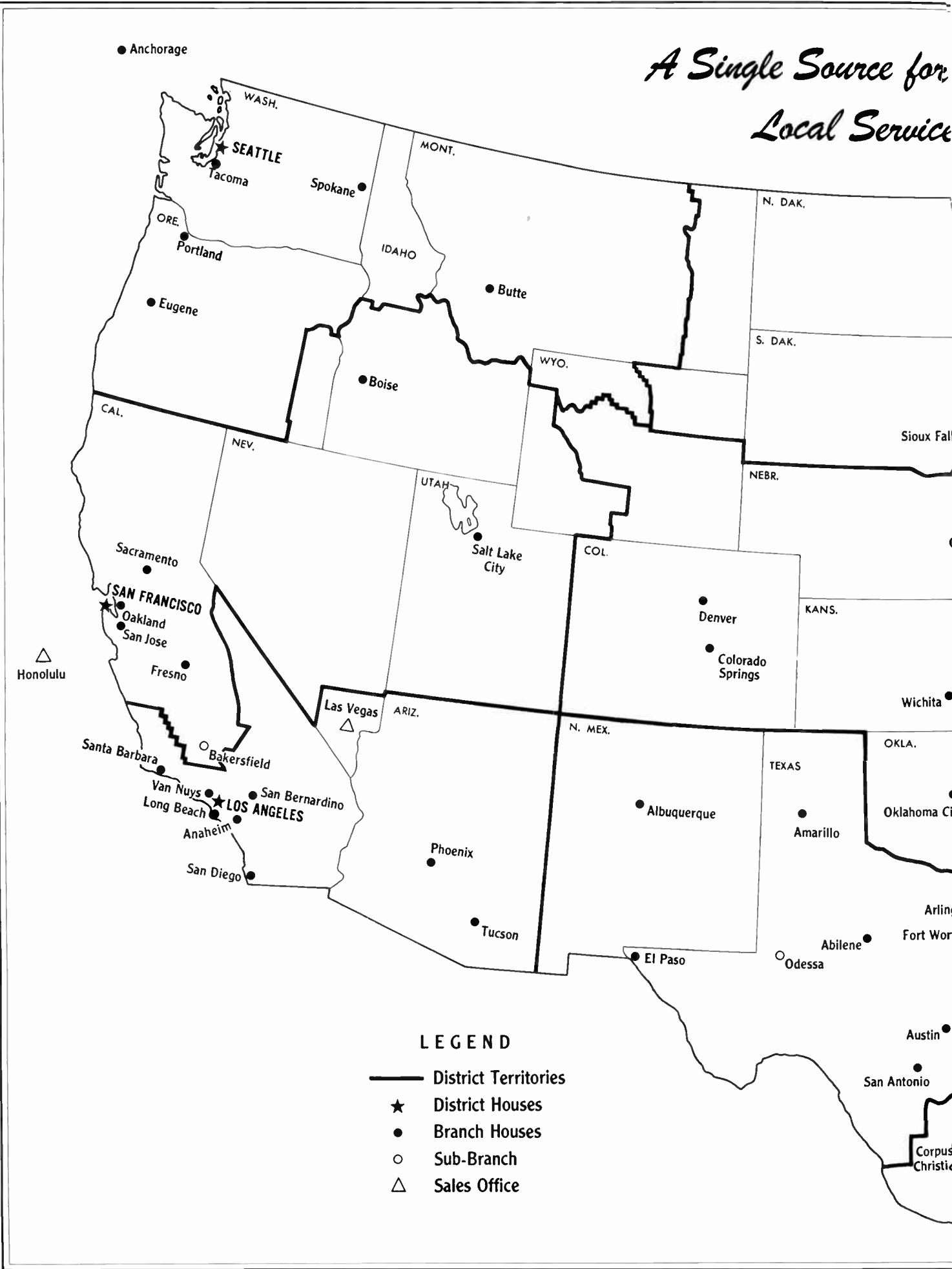
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