

TERMINALS & PROTECTORS

	Page
BINDING POST	
Caps.....	11
Insulators.....	11
CABLE	
Closures.....	14, 15, 16, 17
Stubs.....	19
Terminals.....	10, 11
CENTRAL OFFICE	
Connectors.....	31, 32, 33, 34, 35, 36
Connector Units.....	33, 34
Protectors.....	31
Protector Units.....	30
CONNECTING BLOCKS	13
CROSS CONNECT	
Cabinets.....	19
Terminals.....	11
DISCHARGE BLOCKS	3, 5
DISTRIBUTING	
Rings.....	11
Frames.....	21, 22, 23, 24, 25, 26
FANNING STRIPS	2, 13
FUSES	7, 8
POWER CROSS PROTECTORS	7
READY ACCESS CLOSURES	14, 15
SPLICE CASES	16, 17
SPLICE CASE TERMINALS	17
STATION	
Protectors.....	2, 3, 4, 5, 6, 7
Protector Units.....	3, 4, 5, 6
TERMINAL	
Blocks.....	13, 15, 27, 28, 29, 30
Boxes.....	12, 13
Housings.....	19, 20
Strips.....	13
WIRE TERMINALS	9

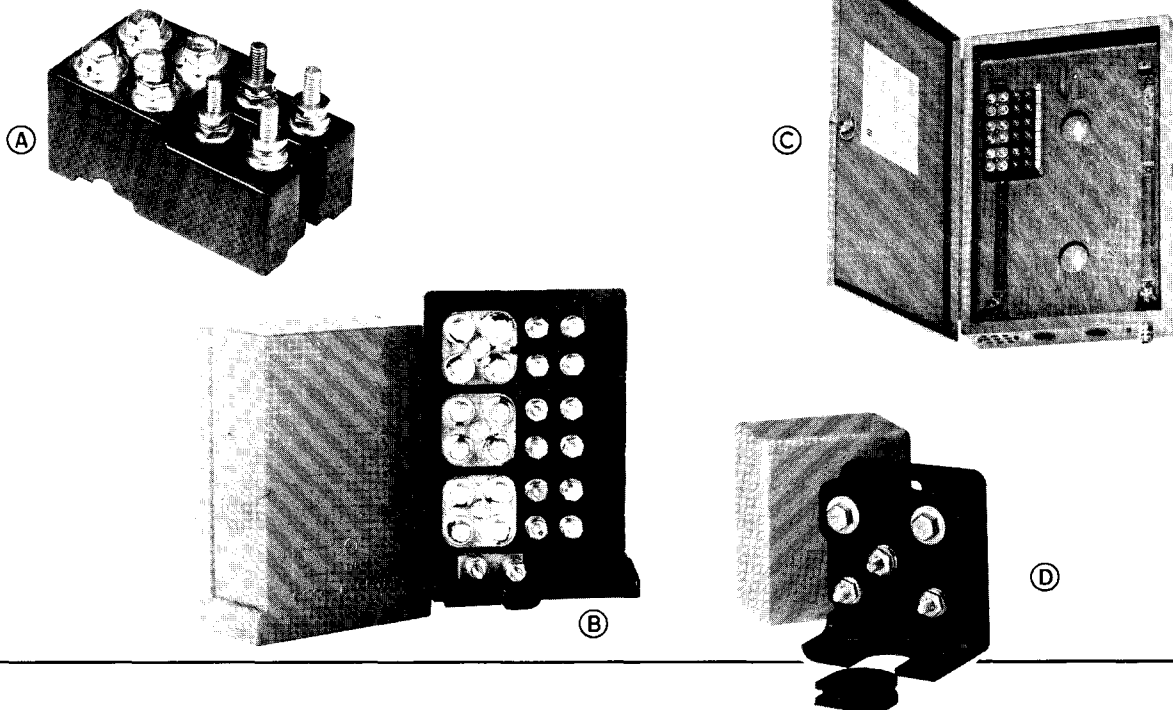
GTE AUTOMATIC ELECTRIC

NORTHLAKE, ILLINOIS 60164 / TELEPHONE (312) 562-7100

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TERMINALS-PROTECTORS

PROTECTORS AND ARRESTERS



(A) COOK MULTIPLE STATION PROTECTOR MODULES

Without cover for indoor use.

Ordering No.	Type	Pairs	Arresters	Protector Unit	Price Each
S-554842	W492	2	Carbon Gap	41-375	\$5.15
S-554844	W492-GP	2	Gas Protected	C350FS	12.15

ACCESSORIES

Fanning Strips

Ordering No.	Type	Pairs	Std. Pkg.	Price per Pkg.
S-557483	501-339	6	2	\$2.40

Copper Mountings and Grounding Bars

Ordering No.	Type	Length, In.	Cap	Price Each
S-524296	492-A3	11 $\frac{5}{8}$	6 Mod. 12 Pr.	\$2.73
S-524297	492-A4	16 $\frac{1}{2}$	9 Mod. 18 Pr.	3.31
S-524298	492-A5	23	12 Mod. 26 Pr.	4.30

(B) COOK MULTIPLE STATION PROTECTORS

With cover for outdoor use with 1 to 3 W492 protector modules. Expandable to 6 pairs. Mounting arrangements with 6, 9 and 13 modules available. UL-listed.

Ordering No.	Type	Pairs	Arresters	Unit	Price Each
S-556272	502A1-2	2	Carbon Gap	41-1375	\$8.56
S-556282	502A1-2GP	2	Gas Protected	C350FS	15.56

(C) MULTIPLE PROTECTOR HOUSINGS

For Cook multiple station protectors.

Ordering No.	Type	Pairs	Dimensions, In.	Price Each
.....	503A	18	10 x 12 $\frac{1}{4}$ x 3 $\frac{1}{2}$	\$44.20
S-524032	503B1	25	12 x 17 x 3 $\frac{1}{2}$	57.05
S-524033	503B2	50	12 x 31 x 5	87.60
S-524034	503B3	100	25 x 36 x 5	153.30

Order Accessories separately.

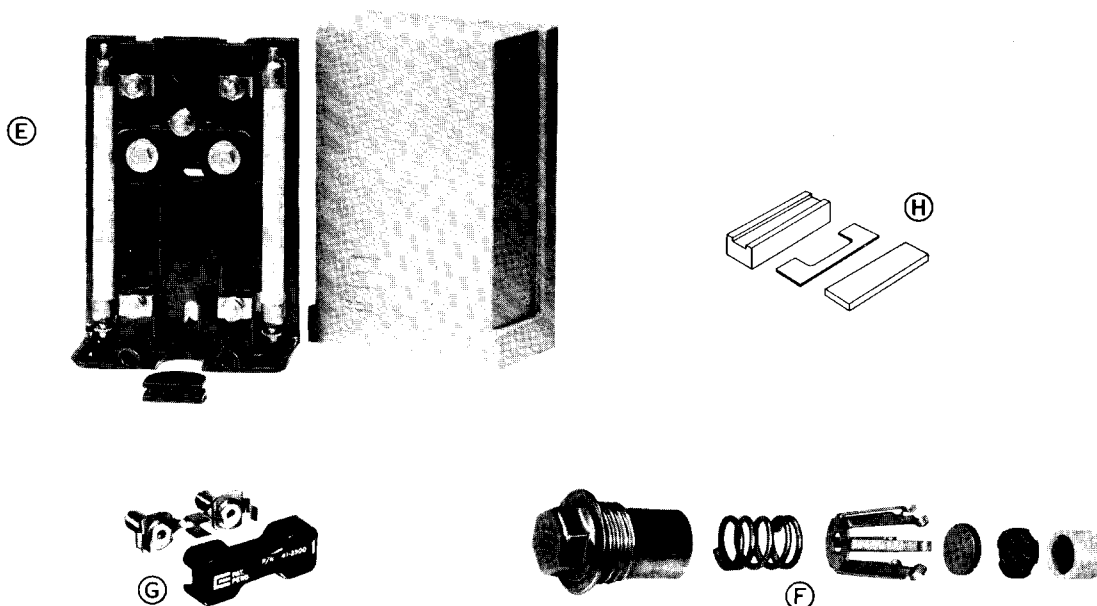
COMPRESSION COUPLINGS FOR PROTECTOR HOUSINGS

Ordering No.	Type	For Cable O.D., In.	Price Each
S-522285	506-825	0- .75	\$4.90
S-522284	506-826	0-1.00	5.50
S-522286	506-827	0-1.375	8.00

CABLE GROMMETS FOR PROTECTOR HOUSINGS

Ordering No.	Type	Fits Cable Diam., In.	Price Each
S-522678	506-829	.375- .437	\$1.02
S-522679	506-830	.437- .500	1.02
S-522680	506-831	.500- .562	1.02
S-522681	506-832	.562- .625	1.02
S-522682	506-833	.625- .687	1.02
S-522683	506-834	.687- .750	1.02
S-522684	506-835	.750- .875	1.13
S-522685	506-836	.875-1.000	1.13
S-522686	506-837	1.000-1.125	1.30
S-522687	506-838	1.125-1.250	1.30
S-522688	506-839	1.250-1.375	1.30

H-2


(D) COOK FUSELESS STATION AND CABLE PROTECTORS

UL-listed. With cover for outdoor use.

Ordering No.	Type	Pairs	Arresters	Striking Voltage	Price Each
S-556276	500	1	41-1375 Carbon Gap	450 VDC	\$3.03
S-524722	500A	1	41-1378 Carbon Gap	650 VDC	3.03
S-556280	500-GP	1	C350FS Gas Protected	350 VDC	6.53
S-556321	500-GP3	1	GP3 Gas Protected	350 VDC	8.13

(E) COOK FUSED STATION PROTECTORS

With cover for outdoor use. UL-listed.

Ordering No.	Type	Pairs	Arresters	Fuse	Striking Voltage	Volts	Price Each
S-556278	600	1	41-1375 Carbon	7-amp	450 VDC	3000	\$5.31
S-556281	600-GP	1	C350FS Gas Prot.	7-amp	350 VDC	3000	8.81

(F) COOK MESA® CARBON ARRESTER UNITS

Ordering No.	Type	Pairs	Striking Voltage	Color Code	Standard Package	Price Per Pkg.
*S-558000	41-1375	1	450 VDC	White	50	\$35.00
S-528544	41-1378	1	650 VDC	Blue	50	35.00

*U.L. Listed

COOK C-350 FS FAIL SAFE GAS ARRESTER UNITS

Replaces gas (except GP-3 type) and carbon screw-in arresters in Cook station protectors. UL-listed.

Ordering No.	Type	Striking Voltage	Color Code	Std. Pkg.	Price per Pkg.
S-558006	41-393	350 VDC	Red	10	\$24.50

(G) COOK GP-3 CONVERSION KITS

For field conversion of existing Cook type 500 protectors to use of GP-3 type gas arresters. UL-listed.

Ordering No.	Type	Striking Voltage	Std. Pkg.	Price Each
S-554133	41-2310	350 VDC	10	\$6.50

COOK GP-3 ARRESTERS

For replacement use in Cook GP-3 conversion kits and Cook type 500 fuseless station protectors. UL-listed.

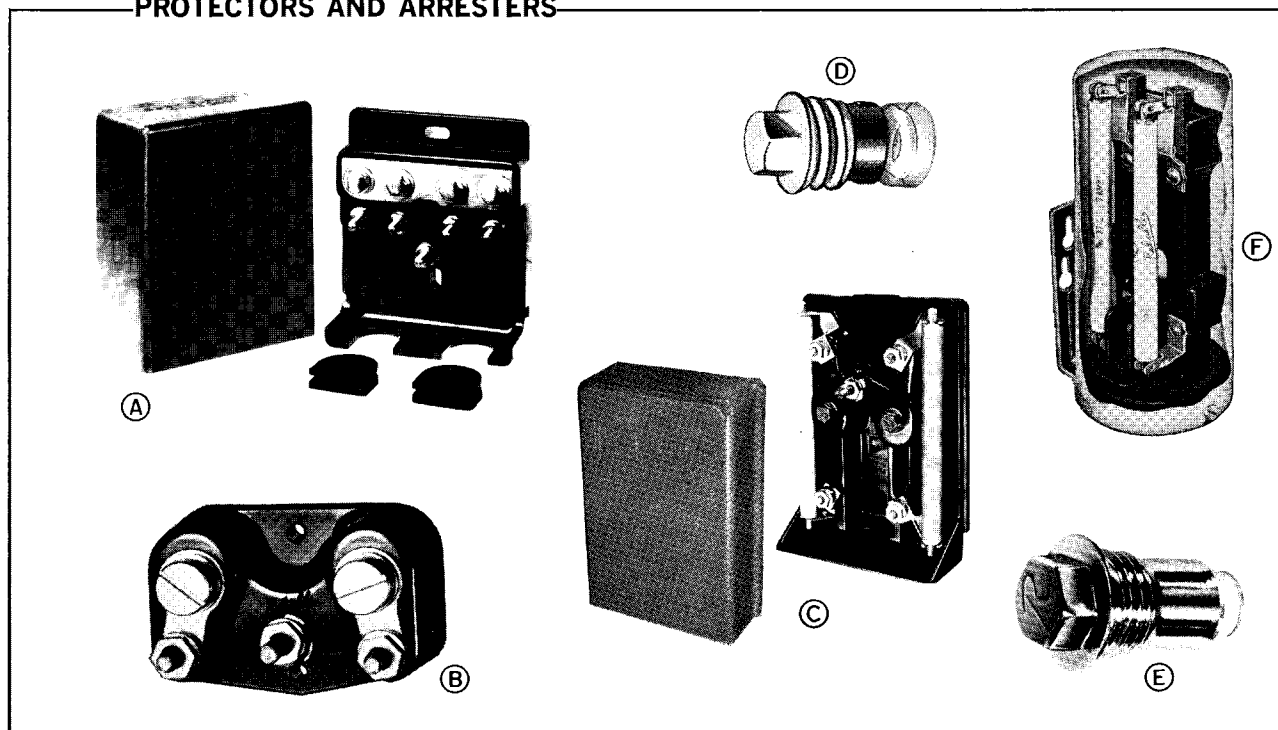
Ordering No.	Type	Striking Voltage	Std. Pkg.	Price Each
S-558012	41-2300	350 VDC	10	\$4.75

(H) COOK CARBON BLOCKS AND DIELECTRICS

Ordering No.	Type	Description	Std. Pkg.	Price per 100
S-550527	41-300	Plain Carbons.....	100	\$16.00
S-550530	41-200	Grooved Carbons.....	50	16.00
S-551515	41-11	U-Shaped Dielectrics, .005 in.	100	2.23
522360	41-12	U-Shaped Dielectrics, .007 in.	100	2.23

TERMINALS-PROTECTORS

PROTECTORS AND ARRESTERS



COOK TRU-GAP DISCHARGE BLOCKS

Ordering No.	Type	Air Gap	Breakdown Voltage	Std. Pkg.	Price
S-550522	41-223	.005"	750 VAC	100 per pkg.	\$22.00
S-520340	41-190	.007"	1000 VAC	50 per 100	22.00

(A) COOK 2-PR. FUSELESS PROTECTORS

Ordering No.	Type	Arrestors	Std. Pkg.	Price Each
*S-556318	2500	2-pr 41-1375 carbon	50	\$5.73
S-556319	2500-GP-D	1-pr 41-393 gas and 1-pr dummy	50	8.53
*S-556320	2500-GP	2-pr 41-393 gas	50	12.73

*UL-listed.

RELIABLE STATION GAS PROTECTORS

For use where lightning causes excessive maintenance or where specified on high priority facilities.

Ordering No.	Type	Description	Price Each
S-556273	351GFS-2	Fuseless Station Protector. Uses two 1304GFS-2 gas tube units (S-558005)	\$5.96
S-556274	375GFS-2	Fused Station Protector. Uses two 1304GFS-2 gas tube units (S-558005) and two 7-ampere A10U/77L fuses (552311)	8.96

RELIABLE FUSELESS STATION PROTECTORS

Ordering No.	Type	Units	Protector Description	Air Gap Inches	Std. Pkg.	Price Each
S-556276	351	1304	With Cover for Outdoor Use	.003	100	\$2.72
S-556314	210	1304	With Cover for Outdoor Use	.003	100	2.87
S-556309	901	504 Telegard®	With Cover for Outdoor Use	.003	100	2.67
(B) S-556313	R-123	1304	Without Cover for Indoor Use	.003	100	2.59
S-557360	P13538		Protector Leveling Spacer.*		50	.63

UL-listed.

*Provides the necessary stand-off for Type 351 one-pair fuseless station protector mounted on house clapboard so that the cover can be removed when there is less than 5½ in. lap.

RELIABLE GAS PROTECTOR UNITS

350-volt screw-type gas tube surge arresters used to replace carbon-air gap arrester. Color coding shows voltage rating.

Ordering No.	Type	Description	Price Each
S-558005	1304GFS-2	Used in Types 351 and 375 Protectors	\$2.51
S-558004	504GFS-2	Used in Type 901 Protectors	3.05

© RELIABLE FUSED STATION PROTECTORS

Shown at left. With cover for outdoor mounting.

Ordering No.	Type	Protector Unit	Fuse No. & Amps.	Price Each
S-55278	375	1304	77-L, 7 amp	\$4.81

NOTE: Available with Carbon Protector Units 1306, 1310, 1320, and Gas Tube Protector Unit 1451.

© RELIABLE TELEGARD® PROTECTOR UNITS

Shown at left.

Ordering No.	Type	Air Gap, In.	Color Code	Std. Pkg.	Price Each
S-558002	504	.003	White	10	\$.77
S-528545	506	.006	Blue	10	.77
.....	510	.010	Yellow	10	.77
528550	520	.020	Red	10	.77

TELEGARD® PROTECTOR UNIT PARTS

Ordering No.	Type	Description	Std. Pkg.	Price per 100
.....	P7080	Cap Assembly for No. 506..		\$19.16
.....	P9286	Cap Assembly for No. 510..		19.16
.....	P7257	Cap Assembly for No. 520..		19.16
S-550525	P6082	Carbon Block.....	200	3.15
555831	P6083	Alloy Pellet.....	200	2.22
S-550482	P5841	Insulator-Carbon Block for No. 504.....	200	21.52
520336	P5827	Insulator-Carbon Block for No. 506.....	200	21.52
.....	P8313	Insulator-Carbon Block for No. 510.....		40.73
.....	P7256	Insulator-Carbon Block for No. 520.....		40.73

GAS TUBE PROTECTOR UNITS

For Reliable protectors using Telegard Protectors. Sold only in multiples of ten.

Ordering No.	D.C. Breakdown Voltage±15%	Color Code	Price Each
504-G1A	230	Green	\$2.23
504-G2A	350	Orange	2.23
504-G3A	800	Black	2.23

GAS TUBE UNIT PARTS

Sold only in units of 200.

Ordering No.	Description
P-12180	Green Cap Assem. for No. 504-G1A
P-12181	Orange Cap Assem. for No. 504-G2A
P-12182	Black Cap Assem. for No. 504-G3A
P-11655	Spacer
P-97	Gas Arrester for No. 504-G1A
P-342	Gas Arrester for No. 504-G2A
P-364	Gas Arrester for No. 504-G3A
P-12183	Body Assembly

*Price on Application.

© RELIABLE REPLACEMENT PROTECTOR UNITS

Shown at left.

Ordering No.	Type	Air Gap, In.	Color Code	Std. Pkg.	Price Each
558001	1304	.004	White	50	\$.65
S-528544	1306	.006	Blue	50	.65
S-528548	1310	.010	Yellow	10	.65
.....	1320	.022	Red	10	.65

RELIABLE PROTECTOR UNIT PARTS

Sold only in packages of 200.

Ordering No.	Description	Price per 100
P-13123	White Cap for No. 1304	\$30.84
P-14431	Blue Cap for No. 1306	30.84
P-14432	Yellow Cap for No. 1310	30.84
P-14433	Red Cap for No. 1320	30.84
P-9042	Spring	2.06
P-9043	Cage	6.96
P-9129	Lead Spacer	2.79
P-5823	Disc Carbon Block	4.88

© RELIABLE OUTDOOR STATION PROTECTORS

Shown at left. Standard package 50.

Ordering No.	Type	Fuse No.	Amps.	Discharge Blocks	Carbon	Price Each
*S-556304	2000	55L	7	P495	P-1384	\$4.55
* 556305	2000C	55L	7	No. 27	P-663	4.66
*S-556307	2000H	77L	7	P495	P-1384	4.26
S-556306	2000F	27L	7	P495	P-1384	4.20

*UL approved and listed.

RELIABLE PROTECTOR CARBON BLOCKS

Ordering No.	Type	Description	Size Inches	Price per 100
S-550526	P367	Carbon Block with Groove...	1 1/4 x 2 5/8 x 3 1/16	\$8.04
S-550528	P663	Carbon Block...	1 1/4 x 2 5/8 x 3 1/16	8.04
S-550532	P1384	Carbon Block...	1 1/4 x 2 5/8 x 7/32	8.04
S-520406	P1385	Carbon Block...	1 1/4 x 2 5/8 x 5/32	8.04
.....	P4374	Carbon Block with Groove...	1.00x.300x.234	} *
.....	P4375	Carbon Block...	1.00x.300x.187	
790525	P6929	Carbon Block...	1 1/4 x 3/8 x 5/32	

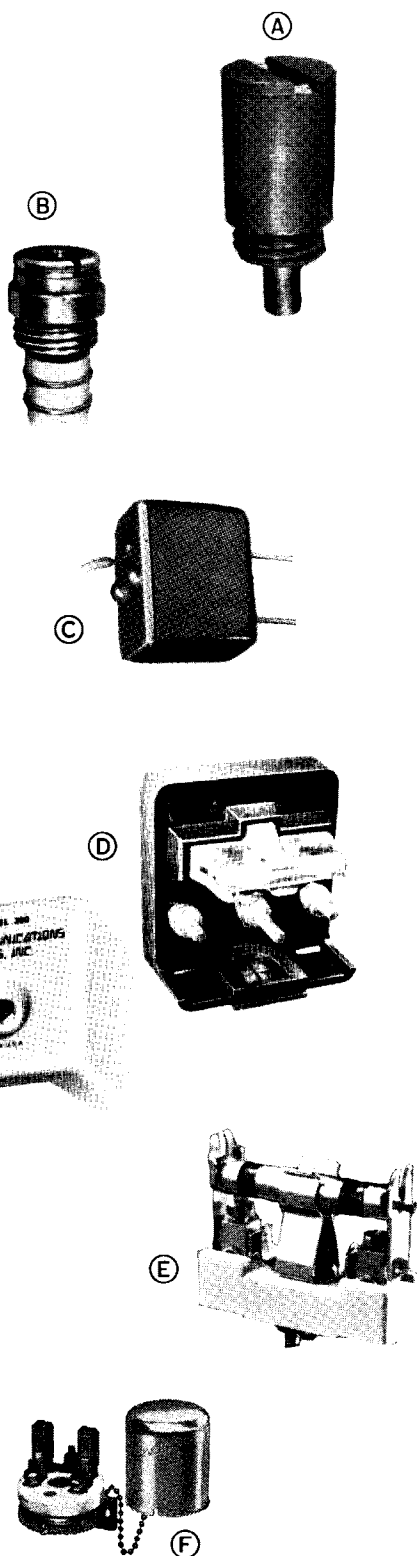
RELIABLE SAWTOOTH DISCHARGE BLOCKS

Standard package 100.

Ordering No.	Type	Air Gap, In.	A.C. RMS Arc-Over Voltage	Color Coding	Price per 100
S-550521	P495	.003	350-500	White	\$16.70
520343	P495Y	.010	1000-1200	Yellow	16.70
S-550520	R-27	.003	.....	White	19.66
S-520350	R-30	.006	.....	Blue	19.66
S-520351	R-31A	.010	.....	Yellow	19.66

TERMINALS-PROTECTORS

PROTECTORS AND ARRESTERS



RELIABLE GAS PROTECTOR UNITS

Equipped with type P-12371 gas arrester which is not intended for use where peak operating voltage exceeds 150.

Ordering No.	Used On	Price Each
(A) 1450	W. E. Co. cable & wire terminals with 7/16-in. x 20 thread brass holders	\$6.26
(B) 1451	R-123, 210, 350, 351, 374 and 375 series protectors	7.06
(C) 1452	Binding posts of unprotected wire & cable terminals	11.68

(D) TII GAS STATION PROTECTORS

For use in place of carbon block protectors on high-priority stations where service must be maintained during lightning storms, and on stations where it is desired to reduce maintenance visits due to excessive permanent grounding of carbon blocks. Contains AEI 16-B gas tube. With fail-safe (alloy pellet) feature.

Striking voltage, 300-500 VDC.

Ordering No.	Type	Description	Price Each
S-556279	300B	Protector with gas tube and fail-safe alloy pellet	\$7.51

(E) GAS FILLED PROTECTORS

A three-electrode protector which can operate in less than 1 microsecond. Withstands repeated discharges of 100 Joules with a peak current of 20,000 amperes.

Striking voltage, 300-500 VDC. Protector mounts on ceramic base which must be ordered separately. For multiple protector installations, order mounting strips listed below.

Ordering No.	Type	Description	Price Each
S-794206	16B	Protector only	\$4.27
S-763383	53	Ceramic base	3.73
S-763384	56A	10-protector mounting strip	7.04
S-763385	56B	20-protector mounting strip	13.69

(F) RELIABLE SINGLE-PAIR PROTECTORS

Ordering No.	Type	Dis-charge Blocks	Carbon Blocks	Price Each
520183	450	P495	P1385	\$2.87
520184	451	P495L	P1385	2.87

With Screw Lug for #6 Ground Wire

S-520189	451A-6	R30	P1384	pkg. of 50	3.53
S-520188	452A-6	R31A	P1385	pkg. of 50	3.53

RELIABLE LINE PROTECTORS

Designed to drain static voltages from open wire circuits and long drop wire runs.

Ordering No.	Type	Pr.	Discharge Block	Carbon Block	Std. Pkg.	Price Each
S-520181	222B	5	R30	P1385	10	\$11.93
S-520186	222E	5	R31A	P1385	10	11.93

(A) CEAC FUSELESS GAS PROTECTORS

Equipped with cover (not shown).

Ordering No.	Type	No. Pair	Std. Pkg.	Price Each
S-556268	800-2FG	1	50	\$12.15
S-556267	800-FSG	2	50	6.89

(B) JOSLYN GAS PROTECTOR

Available with and without cover.

Ordering No.	Type	Description	Std. Pkg.	Price Each
S-556283	2357-02	Fuseless 3-element station protector	50	\$7.75
S-551120	2357-01	Cover for same	1	1.00
S-558008	71734	Replacement gas tube	1	3.95

(C) COOK POWER CROSS PROTECTORS

Protects communications circuits against damage due to accidental contact with high voltage lines. Single pair.

Ordering No.	Type	Breakdown Voltage	Price Each
S-536316	501-146	2000	\$10.80

(D) RELIABLE POWER PROTECTORS

High voltage, high current type. With cover (not shown).

Ordering No.	Type	Breakdown Voltage	Price Each
S-536311	30HVP	3000	\$5.45

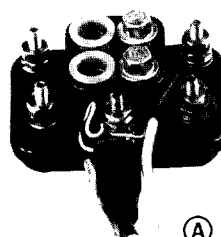
BUSMAN NON-ALARM FUSES

Standard package of 20. Equivalent to WE Type 24.

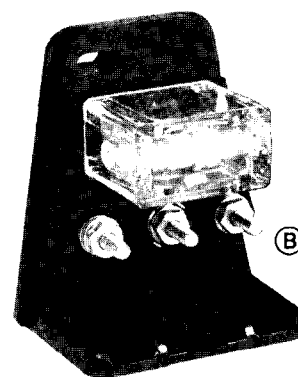
Ordering No.	Type	WE Type	Amps.	Price Per 100
S-435126	WER 1/2	24E	1/2	\$19.60
S-435128	WER 1 1/3	24G	1 1/3	19.60
S-435130	WER 2	24C	2	19.60
S-435132	WER 5	24F	5	19.60

GRASSHOPPER FUSES

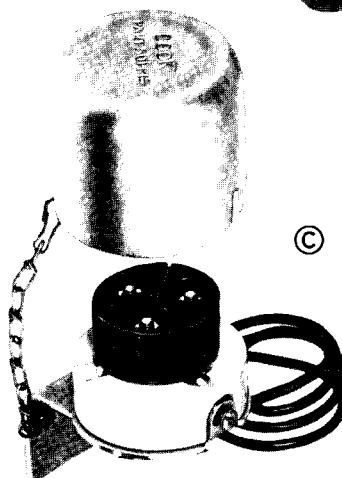
Ordering No.	Type	Amps.	Volts	Color	Std. Pkg.	Price Per 100
S-792920	35-R	1 1/100	90 or less	Yellow	10	\$52.92
S-792911	35-F	1/2	90 or less	Red	10	42.14
S-792905	35-A	1 1/3	90 or less	White	10	42.14
S-792906	35-B	1 1/3	90 or less	White	10	42.14
S-792909	35-D	1 1/3	90 or less	White	10	75.46
S-792907	35-B	2	90 or less	Orange	10	42.14
S-792908	35-C	2	90 or less	Orange	10	42.14
S-792910	35-E	3	90 or less	White	10	42.14
S-792912	35-G	3	90 or less	Blue	10	42.14
S-792913	35-H	5	90 or less	Green	10	42.14
S-792921	35-S	1/4	160 or less	Pink	10	56.84
S-792914	35-J	1/2	160 or less	Red	10	56.84
S-792919	35-P	3/4	160 or less	Tan	10	52.92
S-792915	35-K	1 1/3	160 or less	White	10	75.46

PROTECTORS AND ARRESTERS


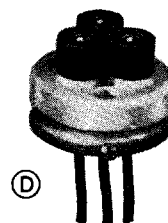
(A)



(B)



(C)



(D)

TERMINALS-PROTECTORS

GRASSHOPPER FUSES, Cont'd

Ordering No.	Type	Amps.	Volts	Color	Std. Pkg.	Price Per 100
S-792916	35-L	2	160 or less	Orange	10	\$75.46
S-792917	35-M	3	160 or less	Blue	10	70.56
S-792918	35-N	5	160 or less	Green	10	70.56

SMALL DIMENSION FUSES

Small Tube

Ordering No.	Type	Amps.	Volts	Std. Pkg.	Price Per 100
792931	ABC-6	6	250	5	\$17.64
S-792932	ABC-10	10	250	5	17.64

Glass Tube

435100	AGC	1/100	250	5	57.82
S-435114	AGX	1/82	250	5	49.98
S-435101	AGC	1/16	250	5	25.48
S-435103	AGC	15/100	250	5	25.48
S-435102	AGC	1/8	250	5	25.48
S-435104	AGC	1/4	250	5	14.70
S-435105	AGC	1/2	250	5	14.70
S-435115	AGX	1/2	250	5	14.70
S-435106	AGC	3/4	250	5	14.70
S-435107	AGC	1	250	5	10.78
S-435116	GKN	1	125	5	25.48
S-435108	AGC	1 1/2	250	5	10.78
S-435109	AGC	2	250	5	10.78
S-435110	AGC	3	250	5	10.78
S-435111	AGC	5	32	5	7.84
S-435112	AGC	8	32	5	7.84
S-435113	AGC	15	32	5	7.84
S-435117	GKN	10	125	5	25.48

Laminated Tube

S-792934	BAF	5	250	10	18.62
S-792935	BAF	10	250	10	18.62
S-792936	BAF	15	250	10	18.62

Slow Blow

S-435118	MDL	3/10	250	5	32.34
S-435119	MDL	6/10	250	5	32.34
S-435120	MDL	1	250	5	32.34
S-435121	MDL	1 1/2	125	5	30.38
S-435122	MDL	1 6/10	125	5	30.38
S-435123	MDL	2	125	5	30.38
S-435124	MDL	5	32	5	25.48
S-435125	MDX	5	125	5	25.48

One Time

S-792937	NON	10	250	10	18.62
S-792938	NON	15	250	10	18.62
S-792939	NON	30	250	10	18.62
S-792940	NON	100	250	5	144.06

TYPE GMT FUSES

Indicating Signal

Ordering No.	Type	Amps.	Volts	Std. Pkg.	Price Per 100
S-792941	GMT	1/2	300	10	\$56.84
S-792942	GMT	1	300	10	56.84
S-792943	GMT	1 1/3	300	10	56.84
S-792944	GMT	2	300	10	56.84
S-792945	GMT	3	300	10	56.84
S-792946	GMT	5	300	10	56.84
S-792947	GMT	10	300	10	56.84

H-8

Alarm Fuses

Ordering No.	Type	Amps.	Volts	Color	Std. Pkg.	Price Per 100
S-792948	GMT-18/100	18/100	300	Yellow	10	\$56.84
S-792949	GMT-1/4	1/4	300	Violet	10	56.84
S-792951	GMT-65/100	65/100	300	Black	10	56.84
S-792952	GMT-3/4	3/4	300	Brown	10	56.84
S-792953	GMT-7 1/2	7 1/2	300	Black-White	10	56.84
S-792954	GMT-DUMMY	...	...	Gray Plastic	10	56.84

COOK PRECISION RATED FUSES



Ordering No.	Type	Description	Price per 100
*S-552311	A-10U	Ceramic	\$19.04 pkg.
S-522553	A-7	Wood 5 Amp.	43.00
S-552305	A-7	Wood 7 Amp.	43.00
S-552304	A-12	Lavite 7 Amp.	46.00

*UL-listed.

RELIABLE PROTECTOR FUSES



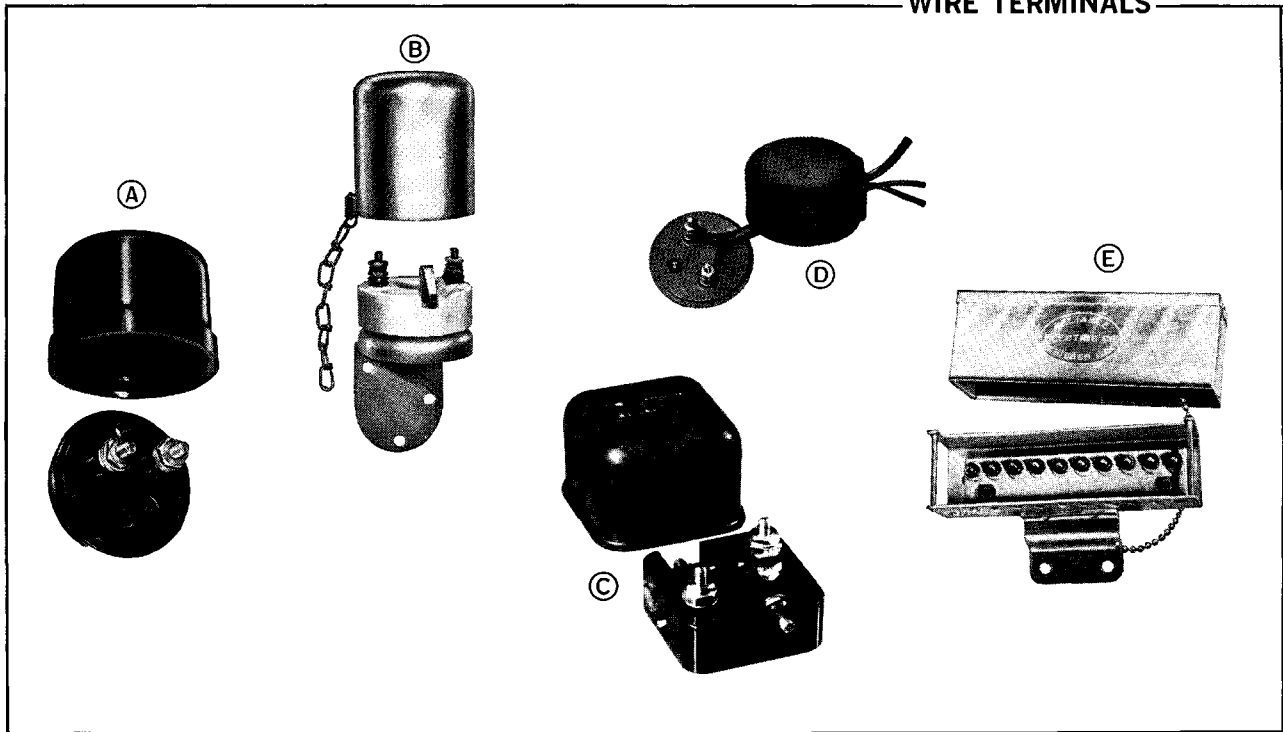
NOTE: Specify catalog number and amperage desired. Unless amperage is specified, 7 ampere fuses will be supplied.

Types 27L, 77L and 95L have 13/64-inch diameter tips; Type 55L has 3/8-inch hex nut on both ends.

Ordering No.	Type	Rating Amps.	Length Shoulder to Shoulder Inches	Price per 100
*522554	27L	5	4 3/4	\$27.53
*S-552308	27L	7	4 3/4	27.53
S-552310	77L	5	4 3/4	40.38
†S-552309	55L	5	4 1/16	50.62
†S-552302	55L	7	4 1/16	50.62
**S-552311	77L	7	4 3/4	per 50 20.19 pkg.

*Type 27L interchangeable with GTE Automatic Electric Type 17 (SA-60). †Type 55L interchangeable with GTE Automatic Electric Type 21 (SA-92).

**Cook Type A-10U (041-0707).

WIRE TERMINALS

(A) COOK ONE-PAIR TEST TERMINALS

Mounts on crossarm. Sealed against weather.

Ordering No.	Type	Price Each
S-537497	81-391	\$1.39

(B) COOK DROP WIRE TERMINALS

Connects subscriber drops to open wire.

Ordering No.	Type	Price Each
S-537498	563-30	\$2.52

(C) TYPE C RURAL WIRE TERMINALS

Ordering No.	Type	Pairs	Std. Pkg.	Each
S-537502	107A2	1	1	\$3.88

RELIABLE WIRE TERMINALS

For use at junctions between multiple line wire and drop or bridle wire in sizes 1 through 26 pair. Mounting bracket is supplied with each wire terminal. Specify if corrosion resistant housing is required.

Unprotected Wire Terminals

Ordering No.	Type	Cap. Pairs	Type of Block	Price Each
(D) S-537503	‡5533	1	Phenolic	\$1.39
.....	‡5500	1	Phenolic	1.57
S-537504	*5591	1	Phenolic	3.74
.....	*5502	1	Porcelain	1.83

Unprotected Wire Terminals, Cont'd

Ordering No.	Type	Cap. Pairs	Type of Block	Price Each
(E) S-537506	‡5505	6	Resin Filled	\$11.36
537507	*5507	6	Resin Filled	6.20
S-537512	‡5542	12	Resin Filled	14.56

With No. 504 Station Protector Unit

.....	‡5524	11	Resin Filled	\$33.14
527612	‡5541	12	Resin Filled	36.68
.....	‡5544	16	Resin Filled	41.38
527614	*5571	18	Resin Filled	54.11
527615	*5574	26	Resin Filled	66.96

With No. 506 Paper Cable Protector Unit

256711	‡5526	11	Resin Filled	\$33.14
527618	‡5543	12	Resin Filled	36.68
527619	‡5546	16	Resin Filled	41.38
527620	*5573	18	Resin Filled	54.11
527621	*5576	26	Resin Filled	66.96

With No. 520 Plastic Cable Protector Unit

527624	‡5510	6	Resin Filled	\$23.28
.....	‡5520	11	Resin Filled	33.14
527626	‡5530	12	Resin Filled	36.68
.....	‡5540	16	Resin Filled	41.38
.....	*5550	18	Resin Filled	54.11
.....	*5570	26	Resin Filled	66.96

*Formed aluminum housing for pole or cross arm mounting.

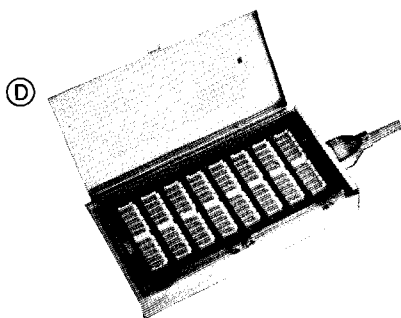
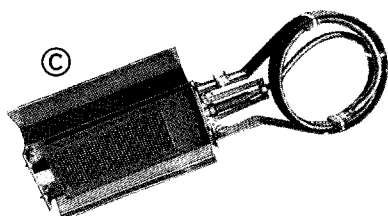
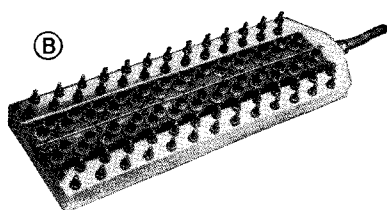
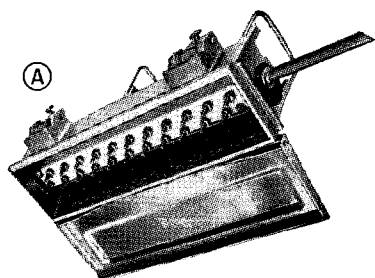
‡Cast aluminum housing for strand, pole or wall mounting.

‡Neoprene cover.

**Polyethylene Cover.

TERMINALS-PROTECTORS

CABLE TERMINALS



(A) RELIABLE ST CABLE TERMINALS

For strand, pole and wall mounting. Strand mounting available in 11 and 16 pair; pole mounting in 11, 16, 26 and 51 pair. Mounting bracket supplied with 26 and 51 pair. For others, order bracket separately, below. Specify if corrosion-resistant finish desired.

With Lead—Pic Cable Stub

Unprotected Cable Terminals

Ordering No.	Type	Cap. Pairs	Stub Lgth. Ft.	Price Each
S-527688	ST 11C	11	4½	\$24.36
S-527689	ST 16C	16	4½	29.29
*527690	ST 26C	26	7	46.13
*527691	ST 51C	51	7	61.06

With No. 506 Cable Protector Unit

527692	ST 11 PC	11	4½	41.87
527693	ST 16 PC	16	4½	53.56
527694	ST 16 PC	16	12	59.34
*S-527695	ST 26 PC	26	7	87.11

With No. 504 Station Protector Unit

527696	ST 11 PSC	11	4½	41.87
527697	ST 16 PSC	16	4½	53.56
*527698	ST 26 PSC	26	7	87.11

*For pole and wall mounting only.

ST TERMINAL MOUNTING BRACKETS

Ordering No.	Type	Capacity of Terminal	Price Each
520713	6129	6 or 11 Pair	\$1.53
520714	6130	16 Pair	1.69
520715	P2129	26 or 51 Pair	.91

ST TERMINAL BRACKET ADAPTERS

Used with types 6129 and 6130 brackets for horizontal mounting where width of mounting space is limited.

Ordering No.	Type	Terminal Capacity	Price Each
.....	558	6 to 16 Pair	\$1.85

ST TERMINAL DROPWIRE GROMMETS

Ordering No.	Type	Std. Pkg.	Price per 1000
S-522600	P-5407	100	\$41.60

(B) ST CABLE TERMINAL BLOCKS

Binding Post Block Lead—Pic Cable Stub Only

Unprotected Cable Terminal

Ordering No.	Type	Cap Pairs	Stub Lgth. Ft.	Std. Pkg.	Price Each
S-250111	ST 11 HC	11	4½	2	\$17.88
S-250116	ST 16 HC	16	4½	2	20.51
S-250126	ST 26 HC	26	7	2	33.87
S-250151	ST 51 HC	51	7	1	48.35

© CROSS-CONNECT CABLE TERMINALS

Shown at left. All types are available with either 10 or 25-ft. stubs. Standard package, 1.

Aerial 10-Ft. Lead/Plastic

Ordering No.	Type	Pair	Price Each
251380	BF-100	100	\$216.81
251382	BF-200	200	316.80
251383	BF-300	300	423.72
251384	BF-400	400	520.70
251386	BF-600	600	742.50

Underground 25-Ft. Lead/Plastic

251480	BG-100	100	263.34
251482	BG-200	200	446.49
251483	BG-300	300	513.81
251484	BG-400	400	633.60
251486	BG-600	600	945.45

CAC CROSS CONNECT CABLE TERMINALS

Ordering No.	Type	Pairs	Used With Type Cable	Stub, Ft.	Price Each
251570	BH-100	100	Aerial	25	\$228.69
251572	BH-200	200	Aerial	25	332.64
251573	BH-300	300	Aerial	25	446.49
251574	BH-400	400	Aerial	25	536.58
251576	BH-600	600	Aerial	25	760.32
251470	BJ-100	100	Underground	25	226.71
251472	BJ-200	200	Underground	25	388.08
251473	BJ-300	300	Underground	25	437.58
251474	BJ-400	400	Underground	25	505.89
251476	BJ-600	600	Underground	25	820.71

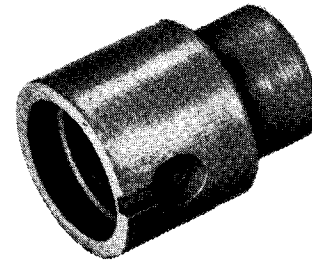
© RELIABLE CROSS CONNECT TERMINALS

Illustrated at left.

Ordering No.		Pair	Cable	Stub Length Feet	Price Each
Stub Up For Aerial Use	Stub Down For Under-ground Use				
6600AA-15	6600AU-15	100	Alpeth	15	\$239.62
6600AA-25	6600AU-25	100	Alpeth	25	262.62
6600LA-15	6600LU-15	100	Lepeth	15	239.62
6600LA-25	6600LU-25	100	Lepeth	25	262.62
6600CA-15	6600CU-15	100	Cupeth	15	239.62
6600CA-25	6600CU-25	100	Cupeth	25	262.62
6605AA-15	6605AU-15	200	Alpeth	15	344.04
6605AA-25	6605AU-25	200	Alpeth	25	374.74
6605LA-15	6605LU-15	200	Lepeth	15	344.04
6605LA-25	6605LU-25	200	Lepeth	25	374.74
6605CA-15	6605CU-15	200	Cupeth	15	347.54
6605CA-25	6605CU-25	200	Cupeth	25	385.54
6610AA-15	6610AU-15	300	Alpeth	15	436.17
6610AA-25	6610AU-25	300	Alpeth	25	482.30
6610LA-15	6610LU-15	300	Lepeth	15	446.95
6610LA-25	6610LU-25	300	Lepeth	25	500.73
6610CA-15	6610CU-15	300	Cupeth	15	442.37
6610CA-25	6610CU-25	300	Cupeth	25	489.96
6615AA-15	6615AU-15	400	Alpeth	15	546.79
6615AA-25	6615AU-25	400	Alpeth	25	608.21
6615LA-15	6615LU-15	400	Lepeth	15	562.15
6615LA-25	6615LU-25	400	Lepeth	25	638.91
6615CA-15	6615CU-15	400	Cupeth	15	554.45

RELIABLE CROSS CONNECT TERMINALS, Cont'd

Ordering No.		Cap. Pair	Cable	Stub Length Feet	Price Each
Stub Up For Aerial Use	Stub Down For Under-ground Use				
6615CA-25	6615CU-25	400	Cupeth	25	\$623.54
6625AA-15	6625AU-15	600	Alpeth	15	777.19
6625AA-25	6625AU-25	600	Alpeth	25	861.61
6625LA-15	6625LU-15	600	Lepeth	15	800.19
6625LA-25	6625LU-25	600	Lepeth	25	900.02
6625CA-15	6625CU-15	600	Cupeth	15	792.53
6625CA-25	6625CU-25	600	Cupeth	25	884.66

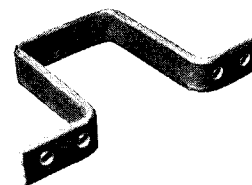
RELIABLE BINDING POST CAPS


Ordering No.	Type	Color	Std. Pkg.	Price per 100
S-520741	P-9095	Black	100	\$4.93
S-520740	P-9096	Red	100	4.93

BINDING POST INSULATORS

Tubular phenol fiber. Standard package, 25.

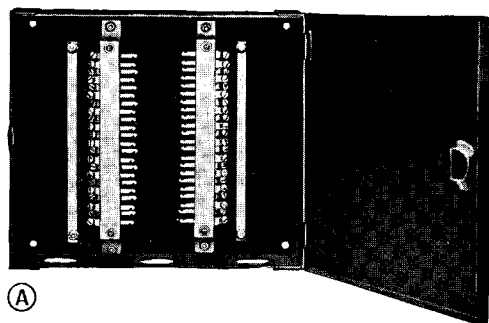
Ordering No.	Type	Color	I.D., Inches	Height, Inches	Price per 100
S-524053	3	Brown	1 1/32	7/8	\$4.95

DISTRIBUTING RINGS


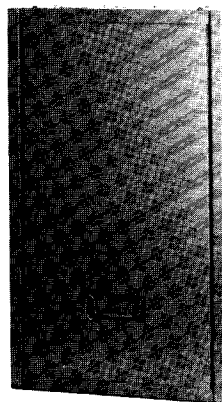
Ordering No.	Type	Opening, Inches	Mounting Length, Inches	Std. Pkg.	Price per 1000
S-556675	4A	2 3/8 x 1 7/8	4 3/8	10	\$110.57
S-556676	4B	2 7/8 x 3 5/8	6 1/8	10	189.34
S-556677	4C	2 7/8 x 5 5/8	8 1/8	10	198.62

TERMINALS-PROTECTORS

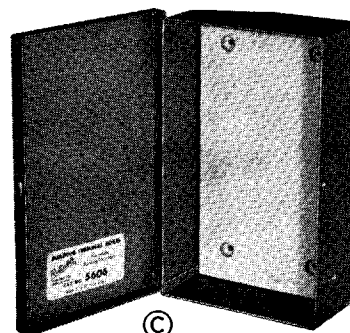
BUILDING TERMINALS



(A)



(B)



(C)

(A) GTE AUTOMATIC ELECTRIC TERMINAL BOXES

Equipped with type 75 terminal strips.

Ordering No.	Cap. Pairs	Width Inches	Height Inches	Price Each
H-56605-1	11	5½	10	\$13.90
H-56605-3	16	5½	12½	18.00
H-56605-5	26	11	13¾	26.45
H-56605-7	52	11	19¾	46.45
H-56605-8	104	11	40	91.15
H-56605-9	208	24	40	182.00

Type 75 Terminal Strips Only

Ordering No.	Cap. Pairs	Overall Dimensions Inches	Price Each
H-56605-13	11	9¼x1¾x1¾	\$4.80
H-56605-14	13	10½x1¾x1¾	5.75
H-56605-15	16	12¾x1¾x1¾	7.00
H-56605-29	26	19½x1¾x1¾	11.30
H-56605-30	52	37½x1¾x1¾	22.35

Type 75 Fanning Strips Only

Ordering No.	Description	Overall Dimensions Inches	Wt. Lbs.	Price per Strip
H-56605-16	For 11 pr. Terminal.	7¾x1½x1½	⅛	\$.96
H-56605-17	For 13 pr. Terminal.	9x1½x1½	⅛	1.05
H-56605-18	For 16 pr. Terminal.	10⅞x1½x1½	⅛	1.40

NOTE: For 26 pr. Terminals, use two H-56605-17 strips.
For 52 pr. Terminals, use four H-56605-17 strips.

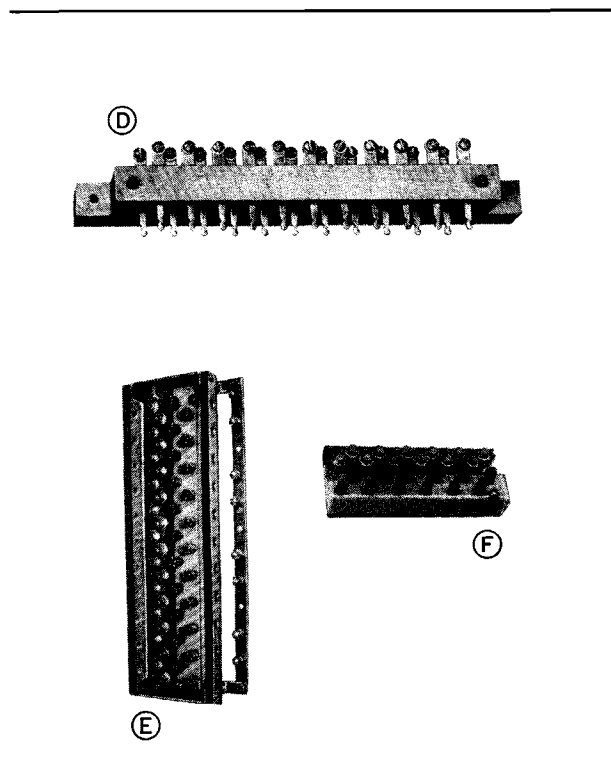
H-12

(B) COOK C-102 AND C-202 TERMINAL BOXES

Ordering No.	Type	Description	Price Each
S-524831	CH-102	Cable Terminal Housing Section, including housing, lift-out door, solid backboard and necessary hardware for securing backboard and fastening CH sections together. Also includes full-size mounting template. Usable work space, over 2,000 cubic inches. . . .	\$39.40
S-524836	CJ-102	Cable Terminal End Sections. Includes two end sections and mounting screws.	17.35
S-524832	CH-202	Same as Type CH-102, but with usable work space of over 3,600 cubic inches.	58.70
S-524837	CJ-202	Same as Type CJ-101, but for use with Type CH-202.	22.10

Accessories

Ordering No.	Type	Description	Price Each
S-524613	023-2756	Distributing Post.	\$.65
S-524751	023-2772	1⅞-in. "A-C" Distribution Ring. Standard package, two.	3.15
S-524752	023-2771	2¾-in. "B" Distribution Ring. Standard package, two.	3.70
S-520264	CA-82D	Split Backboard for C-102.	4.50
S-520261	CA-82A	Split Backboard for C-202.	5.80
S-524200	116-0426	Grounding Kit.	2.70


(C) RELIABLE TERMINAL BOXES

For indoor use with protected or unprotected type ST cable terminal blocks or wire terminal blocks. No. 5601 can also be used with smaller blocks or combinations.

Ordering No.	Type	Single Block Pr. Cap.	Inside Dimensions			Price Each
			Width	Height	Depth	
S-520641	5600	6 or 11	5	14	2½	\$9.28
S-520642	5601	11 or 16	5	20½	2½	12.26
520644	5603	16 or 26	11	20½	2½	16.25

(D) RELIABLE TYPE E TERMINAL STRIPS

Ordering No.	Type	Length, Inches	Price Each
S-527385	E-11 PR	9⅝	\$4.33
S-527386	E-13 PR	10⅞	4.95
S-527387	E-16 PR	12⅞	6.28
S-527388	E-26 PR	19⅞	10.17

RELIABLE FANNING STRIPS

Ordering No.	Type	Length, Inches	Price Each
S-527370	E-11-FS	9⅝	\$1.22
S-527371	E-13-FS	10⅞	1.22
S-527372	E-16-FS	12⅞	1.49
S-527373	E-26-FS	19⅞	2.03
527374	E-52-FS	37¾	2.23

CAC BUILDING TERMINAL BLOCKS

Ordering No.	Type	Pairs	Standard Pkg.	Price Each
256511	59A1-11	11	12	\$7.87
256516	59A1-16	16	12	8.00
S-256525	59A1-25	25	12	13.07
S-256550	59A1-50	50	12	17.27

(E) RELIABLE PROTECTED CONNECTING BLOCKS

Equipped with brackets for mounting in building terminal boxes, cabinets, etc. Complete with fanning strips.

Ordering No.	Type	Description	Price Each
527380	P-8143	6 Pair Grd. Bar for No. 5306	\$1.89

(F) RELIABLE WIRE TERMINAL BLOCKS

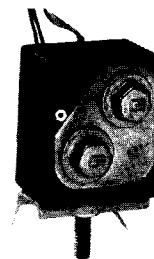
Identical to the blocks used in the wire terminals. Used in building boxes or in buried cable housings.

Unprotected Wire Terminal Blocks

Ordering No.	Type	Cap. Pairs	Type of Block	Price Each
S-520521	5551	1	Phenolic	\$.59
S-520535	5552	1	Phenolic	.60
S-550538	5561	6	Resin Filled	2.59
S-550540	5515	6	Resin Filled	2.66
S-550539	5555	11	Resin Filled	5.19

With No. 504 Station Protector Unit

550537	5554	11	Resin Filled	\$24.03
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COOK ARRESTER PROTECTED TERMINAL BLOCKS


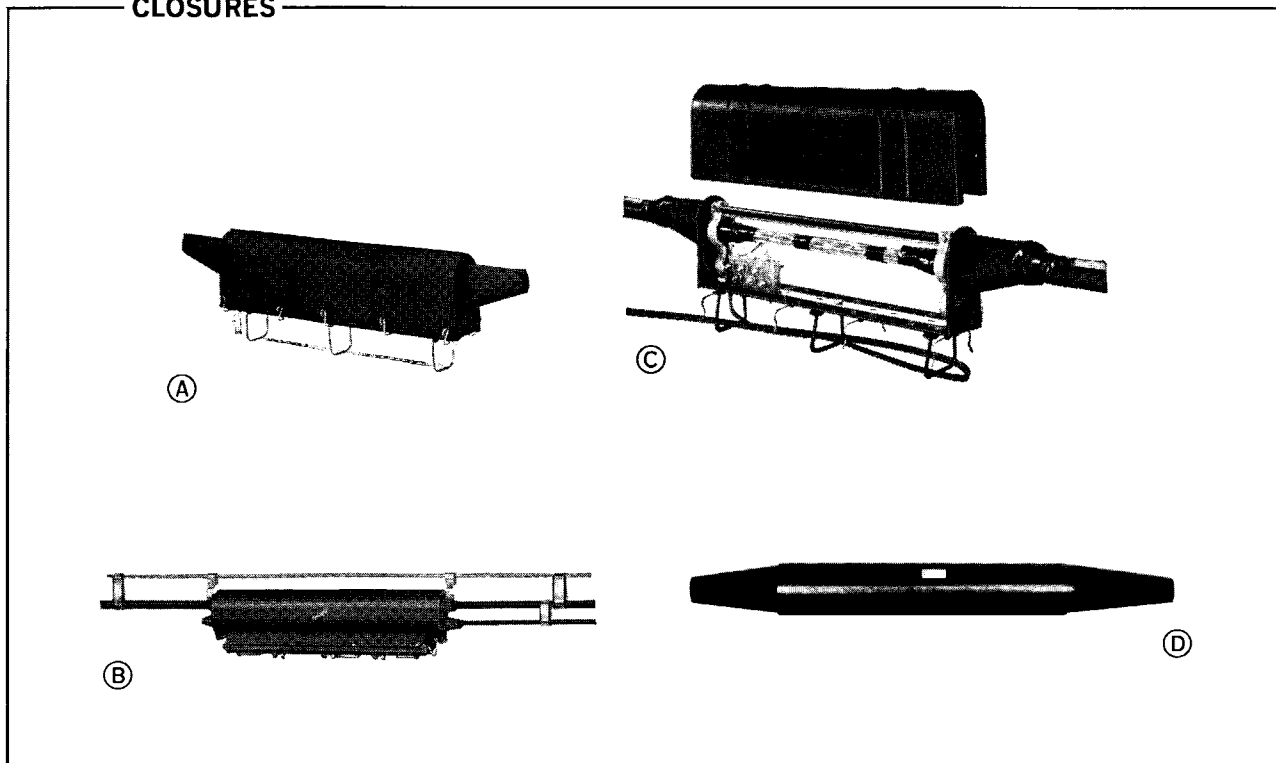
For ready access closures and buried cable terminal housing.

Equipped with MESA® carbon air gap, metal to metal ground, carbon arresters. Available with or without color coded leads:

Ordering No.	Type	Arrester	Striking Voltage	No. of Pairs	Price Each
S-520518	1C2A	41-378	650 VDC	1	\$3.23
S-520519	1C2C	41-381	1000 VDC	1	3.23
S-520523	3C2A	41-378	650 VDC	3	9.59
S-520524	3C2C	41-381	1000 VDC	3	9.59

TERMINALS-PROTECTORS

CLOSURES



(A) COOK READY ACCESS CLOSURES

For plastic insulated cable.

Ordering No.	Type of Cable	Type of Splice	Cable Diameters Inches	Clearance Between Clamps	Price Each
50	Lashed Figure 8 Distribution	Straight	.4 to 1.2	15"	\$7.75
50Y	Lashed Figure 8 Distribution	Single Y and straight	Top—.4 to 1.2 Lower—.3 to .75	15"	10.00
150	Lashed Figure 8 Distribution	Straight	1.2 to 2.5	18"	13.75
158	Figure 8 Distribution	Straight	1.2 to 2.5*	18"	12.75

*Can also be installed on cable diameters .4 in. to 1.2 in. Type 150 requires adapter rings.

(C) RELIABLE READY ACCESS CLOSURES

For use on both Fig. 8 and lashed, plastic insulated cables.

Ordering No.	Type	For Cable O.D. Inches	Price Each
S-521831	*100MB	.4 to 1.2	\$5.44
S-521837	100MBY	.4 to .8 Branch	6.76
S-521825	100MC	.4 to 1.2	5.14
S-521833	200MB	1.2 to 2.2	9.96
S-521838	200MBY	{ .4 to 1.6 Branch 1.2 to 2.2 Main }	11.41

*Up to four 6-pair No. 145 Series Terminal Blocks can be added to both terminals and closures to terminate 6, 12, 18 or 24 pair or the space can be used for loading coils:

(B) RELIABLE READY ACCESS CABLE CLOSURES

For branch splices. Used with plastic jacketed, plastic insulated cables.

Ordering No.	Type	For Cable O.D. Inches	Price Each
521824	*300-O	Up to 1.0	\$21.96
S-521834	*400-O	1.0 to 2.2	32.70

*Up to four 6-pair No. 145 Series Terminal Blocks can be added to both terminals and closures to terminate 6, 12, 18 or 24 pair or the space can be used for loading coils.

(D) PIC CABLE CLOSURES

Non-hermetically sealed splice closure for use on aerial Alpeh cable.

Ordering No.	Type	Size, In.	Std. Pkg.	Price Each
S-521839	C-3500	1x6	60	\$4.41
S-521840	C-3501	1½x20	40	5.03
S-521841	C-3502	1¾x24	38	6.47
S-521842	C-3503	2¼x28	16	7.83
S-521843	C-3504	2¾x32	12	13.10
S-521844	C-3505	3¼x32	9	15.70
S-521845	C-3506	4½x32	4	32.36
S-521846	C-3507	6x32	2	39.93

RELIABLE READY ACCESS WIRE CLOSURES

For use on Figure 8 or multi-pair distribution wire.

Ordering No.	Type	Price Each
S-521821	*500-M-O	\$7.82
S-521800	*500-MB	4.69

RELIABLE READY ACCESS CABLE CLOSURES

For straight splices.

S-521847	Type 430 Closure for cable O.D. 2.0 to 3.0".	each \$37.92
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RELIABLE ACCESSORIES

For ready access closures.

Ordering No.	Type	Description	Std. Pkg.	Price Each
..... 36		Mounting Bracket Kit for mtg. R-123 Protectors in closures	1	\$5.35
S-524174	170	Y Branch Kit for 100-MB....	1	1.89
S-524173	171	Y Branch Kit for 100-MC...	1	2.03
S-524176	173	Y Branch Kit for 200-MB...	1	2.17
S-524179	174	Y Branch Kit for Type 430 Closure.....	1	2.12
S-524172	180-B	Hanger Bracket Kit for 100-MB.....	1	2.23
..... 183		Hanger Bracket Kit for 200-MB.....	1	2.55
S-524065	P-10318	Messenger Insulator for 100-MB.....	1	.38
..... P-10709		Messenger Insulator for 200-MB.....	1	.44
S-524540	P-10333	End plug for Series 100-MB and 100-MC.....	1	.16
S-524543	P-10712	End plug for Series 200-MB.	1	.21
S-524542	P-7478	End plug for Series 200-O and 400-O.....	1	.19

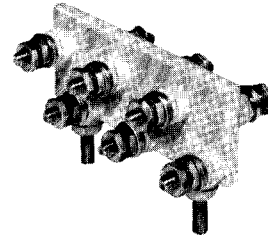
CABLE CLOSURE EXTENDERS

For use with Communications Technology Corp. PIC Cable Closures when longer openings are required. Includes a center coupling, straight sleeve with slider and a full length bond bar with linking hardware.

Ordering No.	Type	Size, In.	Std. Pkg.	Price Each
S-522395	C-3600	1x10	60	\$2.57
S-522396	C-3601	1½x14	40	3.23
S-522397	C-3602	1¾x16	38	3.89
S-522398	C-3603	2¼x20	16	4.96
S-522399	C-3604	2¾x20	12	6.25
S-522400	C-3605	3¼x20	9	7.65
S-522401	C-3606	4½x20	4	12.84
S-522402	C-3607	6x20	2	14.10

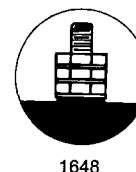
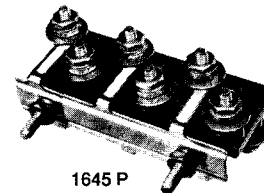
RELIABLE HANGER BRACKETS

S-520723 Type R-51B bracket, for mounting ready access terminals and splice case closures on poles or walls.....each **\$3.87**

Six-Pair Terminal Blocks


Designed for use in ready access closures.

Ordering No.	Type	Description	Std. Pkg.	Price Each
S-520534	6B2	Unprotected, double leads	50	\$3.16

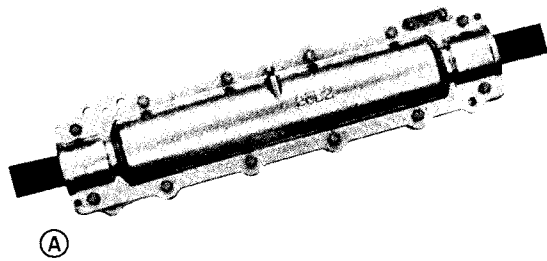
RELIABLE SIX-PAIR WIRE TERMINAL BLOCKS


Provide drop wire terminal points in buried wire and cable pedestals. See diagrams for binding post configurations.

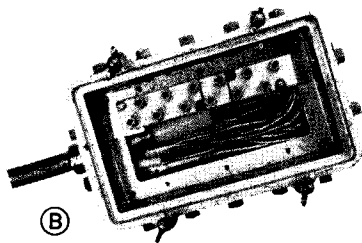
Ordering No.	Description	Price Each
1645	6-pair unprotected	\$1.99
1645P	6-pair protected	2.90
1646	6-pair unprotected	2.60
1646P	6-pair protected	3.48
1647	6-pair unprotected	2.63
1648	6-pair unprotected	2.11
1648P	6-pair protected	2.97

TERMINALS-PROTECTORS

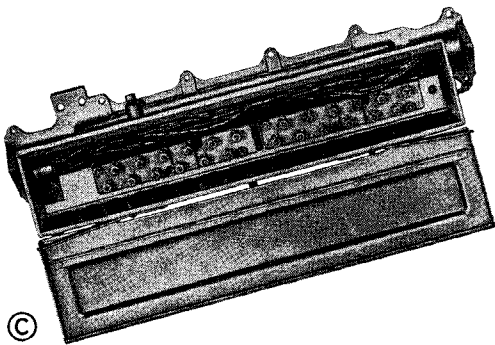
CLOSURES



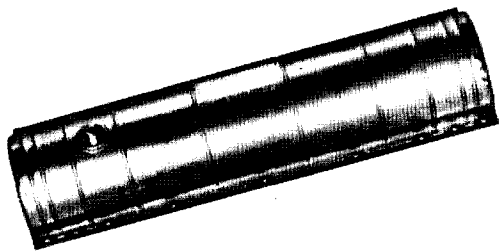
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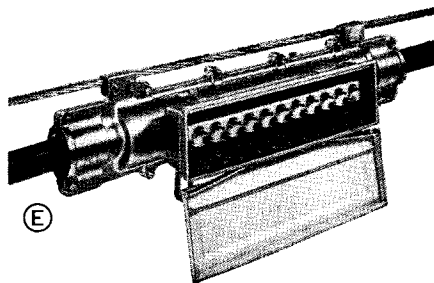
(B)



(C)



(D)



(E)

(A) CEECO SPLICE CASES

Cast iron. Gas and moisture tight. For buried or underground, lead or Stalpeth cable. Accessories (tape, washers, etc.) must be ordered separately. (See page H-18.)

Ordering No.	CEECO No.	Type	For Cable O.D. Inches	Price Each
S-521335	9A-P	Straight	0 to 1.6	\$73.40
S-521336	10A-P	Straight	1.6 to 2.9	103.00
S-521315	11A-P	Branch	0 to 1.6	103.60
S-521316	12A-P	Branch	1.6 to 2.9	142.85
S-521325	20A2-P	Straight	0.3 to 1.0	38.10
S-521326	20B2-P	Straight	1.0 to 1.6	44.60
S-521327	20C2-P	Straight	1.6 to 2.2	62.85
S-521328	20D2-P	Straight	2.2 to 3.0	65.00
S-521305	21A2-P	Branch	0.3 to 1.0	52.00
S-521306	21B2-P	Branch	1.0 to 1.6	63.60
S-521307	21C2-P	Branch	1.6 to 2.2	69.00
S-521308	21D2-P	Branch	2.2 to 3.0	83.60
S-521329	30D2	Straight	2.2 to 3.0	92.83
S-521309	31D2	Branch	2.2 to 3.0	98.45

GMP SUBMARINE SPLICE CASES

For covering splices or repairs in wire-armored submarine cable.

Ordering No.	GMP No.	For Cable O.D. Inches	Price Each
521342	7566-2	2	\$260.00
521343	7566-3	3	345.00
521344	7566-4	4	355.00

(B) RELIABLE UNDERGROUND TERMINALS

With 51-pair 10-ft. cable stub and one 6-pair unprotected connecting block. Has room for a second 6-pair block.

Ordering No.	Type	Description	Price Each
S-527631	VCRUG-51-6	Complete terminal	\$85.59
S-524170	P-11110	Extra 6-pair block	4.35
S-522560	P-2272	11-pair gasket	2.68
S-522561	P-5257	6- or 16-pr. gasket	2.68

RELIABLE SPLICE CASES

For lead, Alpeth, PIC, aluminum and Stalpeth sheathed cable. Specify if corrosion resistant finish desired. Accessories (Type B sealing tape, cord and sealing washers) must be ordered separately. See page H-18.

Branch Type for X and Y Splicing

Ordering No.	Type	For Cable O.D. Inches	Price Each
S-521301	21A1	0.3 to 1.0	\$22.19
S-521302	21B1	1.0 to 1.6	22.89
S-521303	21C1	1.6 to 2.2	31.06
S-521304	21D1	2.2 to 2.9	35.62

RELIABLE SPLICE CASES, Cont'd
For Straight-through Splicing

Ordering No.	Type	For Cable O.D. Inches	Price Each
S-521321	20A1	0.3 to 1.0	\$12.01
S-521322	20B1	1.0 to 1.6	15.27
S-521323	20C1	1.6 to 2.2	24.86
S-521324	20D1	2.2 to 2.9	27.51

© VARIABLE COUNT SPLICE CASE TERMINAL

A gas-tight, unprotected, ready-access terminal that allows the terminal count to be changed without opening the splice case. 12-pair capacity. For use with lead, Alpeth, PIC, aluminum and Stalpeth sheathed cable. Specify if corrosion resistant finish is desired.


Straight-through Type

Ordering No.	Type	FOR CABLE O.D. Inches		Price Each
		Min.	Max.	
S-527672	VC20A1-26	.3	1.0	\$35.88
S-527680	VC20A1-52	.3	1.0	45.71
S-527673	VC20B1-26	1.0	1.6	41.31
S-527681	VC20B1-52	1.0	1.6	51.05
S-527674	VC20C1-26	1.6	2.2	*
S-527682	VC20C1-52	1.6	2.2	*
S-527675	VC20D1-26	2.2	2.9	*
S-527683	VC20D1-52	2.2	2.9	*

Branch-Type

Ordering No.	Type	FOR CABLE O.D. Inches		Price Each
		Min.	Max.	
S-527676	VC21A1-26	.3	1.0	\$45.80
S-527684	VC21A1-52	.3	1.0	55.13
S-527677	VC21B1-26	1.0	1.6	48.18
S-527685	VC21B1-52	1.0	1.6	57.49
S-527678	VC21C1-26	1.6	2.2	*
S-527686	VC21C1-52	1.6	2.2	*
527679	VC21D1-26	2.2	2.9	*
S-527687	VC21D1-52	2.2	2.9	*

© STAINLESS STEEL SPLICE CASES

Quick to install. Cable openings can be easily cut into end pieces on site. No washers or adapters needed.

Ordering No.	Type	Case length	ID In.	Price Each
S-521351	8000-624	Standard	4	\$62.00
S-521350	8000-626	"	6 1/2	103.00
S-521349	8000-630	"	9 1/2	133.00
S-521352	8000-634	Extra long	6 1/2	140.00
S-521348	8000-635	"	9 1/2	172.00

End Pieces

S-522383	8000-70004	For splice case S-521351	6.70
S-522384	8000-70005	" " " S-521350&S-521352	8.70
S-522387	8000-81008	" " " S-521349&S-521348	13.80
S-522389	8000-81098	" " " S-521349&S-521348	19.90

Accessories

S-571583	800-410	Circle cutter	105.00
S-524153	8000-314	Kit for direct burial applications	8.00

*Price on Application

© RELIABLE SPLICE CASE TERMINALS

Type B sealing tape, cord and sealing washers should be ordered separately. See page H-18.

Straight-through, Unprotected

Ordering No.	Type	Cap. Pairs	For Cable O.D. Inches	Price Each
S-527656	T20A1-11	11	.3 to 1	\$28.77
S-527657	T20A1-16	16	.3 to 1	31.27
S-527660	T20B1-11	11	1 to 1.6	32.79
S-527661	T20B1-16	16	1 to 1.6	35.44
S-527664	T20C1-11	11	1.6 to 2.2	45.79
S-527665	T20C1-16	16	1.6 to 2.2	48.45
S-527668	T20D1-11	11	2.2 to 2.9	48.61
S-527669	T20D1-16	16	2.2 to 2.9	51.26

Straight-through, Protected

S-527658	T20A1-11P	11	.3 to 1	\$45.00
527659	T20A1-16P	16	.3 to 1	54.54
S-527662	T20B1-11P	11	1 to 1.6	49.11
S-527663	T20B1-16P	16	1 to 1.6	59.34
S-527666	T20C1-11P	11	1.6 to 2.2	62.26
527667	T20C1-16P	16	1.6 to 2.2	72.56
S-527670	T20D1-11P	11	2.2 to 2.9	*
S-527671	T20D1-16P	16	2.2 to 2.9	*

Branch-type, Unprotected

S-527640	T21A1-11	11	.3 to 1	\$40.56
527641	T21A1-16	16	.3 to 1	42.71
527644	T21B1-11	11	1 to 1.6	41.39
527645	T21B1-16	16	1 to 1.6	43.53
527648	T21C1-11	11	1.6 to 2.2	*
S-527649	T21C1-16	16	1.6 to 2.2	*
S-527652	T21D1-11	11	2.2 to 2.9	*
527653	T21D1-16	16	2.2 to 2.9	*

Branch-type, Protected

S-527642	T21A1-11P	11	.3 to 1	\$57.43
527643	T21A1-16P	16	.3 to 1	65.54
S-527646	T21B1-11P	11	1 to 1.6	58.16
S-527647	T21B1-16P	16	1 to 1.6	66.29
S-527650	T21C1-11P	11	1.6 to 2.2	*
527651	T21C1-16P	16	1.6 to 2.2	*
S-527654	T21D1-11P	11	2.2 to 2.9	*
527655	T21D1-16P	16	2.2 to 2.9	*

RELIABLE PROTECTED TERMINAL BLOCK

For cable and wire pedestals and ready access closures.

Ordering No.	Type	Arrester No.	No. Pairs	Air Gap	Price Each
S-520518	281-A	1306	1	.006"	\$2.72
S-520519	281-C	1310	1	.010"	2.72
S-520523	381-A	1306	3	.006"	8.62
S-520524	381-C	1310	3	.010"	8.62

6-PAIR PROTECTED TERMINAL BLOCK

Each block contains twelve 4-position terminal clips.

Ordering No.	Type	Arrester	Price Each
S-550483	R-66C16P	1304	\$16.77

H-17

TERMINALS-PROTECTORS

RELIABLE ACCESSORIES FOR SPLICE CASES, SPLICE CASE CLOSURES, AND SPLICE CASE TERMINALS

B SEALING CORD, TAPE AND COMPOUND KITS

Ordering No.	Type	Description	Price per Package
S-524180	P-7573	B Sealing Compound Kit (Four 10-Inch Lengths of 1½-Inch Tape and Two 20½-Inch Lengths of Cord).....	\$4.07
S-522266	P-7731	B Sealing Cord (Two 26½-Inch Lengths of Cord).....	1.62
S-528190	P-7732	B Sealing Tape (Three 10-Inch Lengths of 1½-Inch Tape).....	1.82
S-522267	P-8281	B Sealing Cord (Two 32-Inch Lengths of Cord).....	1.82
522268	P-8357	B Sealing Cord (Two 20½-Inch Lengths of Cord).....	1.33
S-528191	P-8745	B Sealing Tape (15 Foot Roll).....	10.00
S-522265	P-9090	B Sealing Cord (15 Foot Roll).....	4.94

ADAPTERS

When a Splice Case or Terminal designed for 1.0 to 3.0-inch o.d. cable is used on cable under 1.0-inch o.d., an adapter is required. Must be ordered separately.

Ordering No.	Type	For Case and Terminal	Cable O.D. In.	Price Each	Ordering No.	Type	For Case and Terminal	Cable O.D. In.	Price Each
S-520061	129A	B	.3 to 1.0	\$1.33	S-520064	133A	D	.3 to 1.0	\$1.33
S-520062	133D	C	.3 to 1.0	1.33	S-520065	133B	D	1.1 to 1.6	1.33
S-520063	133E	C	1.1 to 1.6	1.33	S-520066	133C	D	1.7 to 2.2	1.33

SEALING WASHERS

Order separately according to Splice Case or Terminal used and o.d. cable.

D 100 or W 100 Series Polyethylene Sealing Washers for Splice Case or Terminals with A in Type No.

D 200 or W 200 Series Polyethylene Sealing Washers for Splice Case or Terminals with B in Type No.

C 300 Series Lead Sealing Washers for Splice Case or Terminals with C in Type No.

C 400 Series Lead Sealing Washers for Splice Case or Terminals with D in Type No.

D or W 100 and D or W 200 Series

W100 Series			W200 Series			W100 Series			W200 Series		
Ordering No.	Type		Ordering No.	Type		Ordering No.	Type		Ordering No.	Type	
S-529141	D 100	{ For End Plug }	S-529142	D 200	{ For End Plug }	S-529059	W 109		S-529069	W 209	
529052	W 100		S-529062	W 200		S-529060	W 110		S-529070	W 210	
S-529053	W 103		S-529063	W 203					S-529071	W 211	
S-529054	W 104		S-529064	W 204					S-529072	W 212	
S-529055	W 105		S-529065	W 205					S-529073	W 213	
S-529056	W 106		S-529066	W 206					S-529074	W 214	
S-529057	W 107		S-529067	W 207					S-529075	W 215	
S-529058	W 108		S-529068	W 208					S-529076	W 216	

C200 Series

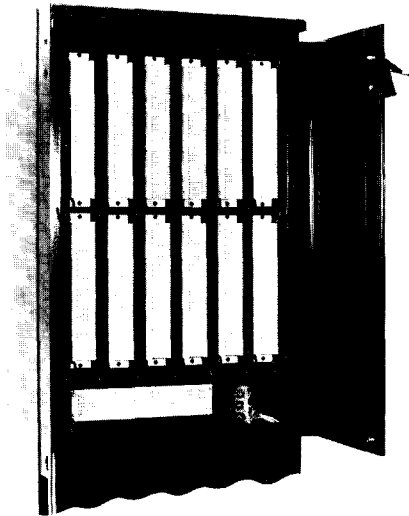
Ordering No.	Type	Cable O.D. In.	Std. Pkg.	Price per Pkg.	Ordering No.	Type	Cable O.D. In.	Std. Pkg.	Price per Pkg.
S-529080	C 300	For End Plug	2	\$1.21	S-529086	C 316	1.6	2	\$7.79
S-529143	E 3100	.3 to 1.0	2	1.07	S-529087	C 317	1.7	2	.74
S-529081	C 311	1.1	2	1.13	S-529088	C 318	1.8	2	.67
S-529082	C 312	1.2	2	1.07	S-529089	C 319	1.9	2	.60
S-529083	C 313	1.3	2	1.00	S-529090	C 320	2.0	2	.54
S-529084	C 314	1.4	2	.94	S-529091	C 321	2.1	2	.48
S-529085	C 315	1.5	2	.87	S-529092	C 322	2.2	2	.40

C400 Series

Ordering No.	Type	Cable O.D. In.	Std. Pkg.	Price per Pkg.	Ordering No.	Type	Cable O.D. In.	Std. Pkg.	Price per Pkg.
S-529100	C 400	For End Plug	2	\$1.95	S-529121	C 421	2.1	2	\$1.21
S-529144	E 4100	.3 thru 1.0	2	1.80	S-529122	C 422	2.2	2	1.13
S-529145	E 4200	1.1 thru 1.5	2	1.68	S-529123	C 423	2.3	2	1.07
S-529116	C 416	1.6	2	1.55	S-529124	C 424	2.4	2	1.01
S-529117	C 417	1.7	2	1.47	S-529125	C 425	2.5	2	.94
S-529118	C 418	1.8	2	1.38	S-529126	C 426	2.6	2	.87
S-529119	C 419	1.9	2	1.33	S-529127	C 427	2.7	2	.79
S-529120	C 420	2.0	2	1.27	S-529128	C 428	2.8	2	.74
					S-529129	C 429	2.9	2	.67

SPLIT CLAMPING RINGS

Hard aluminum rings for use with Splice Cases on aluminum sheathed cable. Each package contains four halves to make two rings. When ordering, specify outer diameter of cable at splice point, maintaining accuracy to within 1/10th of an inch; also specify type of splice case being used. Manufactured on order only.

CROSS-CONNECT CABINETS


Provides 600-pair capacity when using GTE Automatic Electric 66CCI-50A block. Rugged, vandal-resistant. Green finish.

Ordering No.	Type	Description	Dimensions	Price Each
S-251205	XC-7	Cabinet only—less pad mounting angles	57"H x 24 1/2"W x 9"D	\$244.00
.....	PM7-1	Pad mounting kit		10.65

MOBILE HOME MOUNTINGS

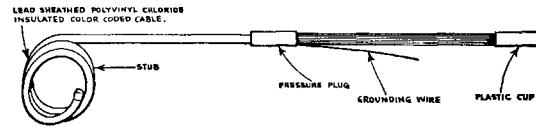
For station protectors. Galvanized steel, green finish. Mounting holes spaced to fit a wide range of protectors.

Ordering No.	Type	Dimensions	Price Each
S-557392	THP-1E	41"H x 2 3/4"W x 1 1/8"D	\$3.45

UTILITY PRODUCTS TERMINAL HOUSINGS

For cable terminals. Backplate and top and bottom covers are heavy-gauge galvanized steel, with baked green alkalyd resin over vinyl primer. Terminating plate finished with white insulating enamel. Can be pole or wall mounted or set in the ground for buried plant.

Ordering No.	Type	Max. Cable O.D., In.	Service Wire Capacity	Protect. Block	Unprot. Block	Capacity, Pairs Internal Loading	Splicing	Price Each
S-523993	GHC-4	1 1/2	12	9	18	12	300	\$19.26
S-523994	GHC-6	2 1/4	12	9	18	18	400	23.22

MD CABLE STUBS


For lead and plastic cable. Polyvinylchloride insulated 24-ga. conductors with a lead sheath. Order mounting brackets separately, below.

Ordering No.	Capacity, Pairs	Approx. Stub Length, Ft.	Cable O.D. In.	Price Each
S-527426	26	6	.63	\$10.75
S-527427	51	6	.82	14.70
S-527428	26	12	.63	15.77
S-527429	51	12	.82	21.85
S-527430	101	6	1.03	22.99
S-527434	101	15	1.03	26.55
S-527435	101	12	1.03	25.40

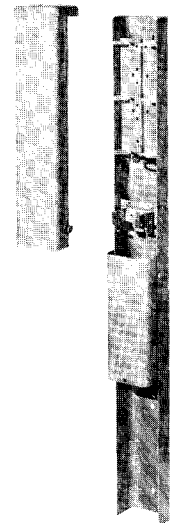
Mounting Brackets

Ordering No.	Type	Price Each
S-520720	P-8809	\$5.1

CAC CABLE STUBS

PVC-insulated conductors with a polyethylene jacket and a lead outer sheath.

Ordering No.	Type	Capacity Pairs	Std. Stub Length Feet	Price Each
527440	CA-1906-100-10	100	10	\$45.30
527441	CA-1906-100-25	100	25	77.60
527442	CA-1906-200-10	200	10	66.00
527443	CA-1906-200-25	200	25	119.70
527444	CA-1906-300-10	300	10	89.20
527445	CA-1906-300-25	300	25	166.75
527446	CA-1906-400-10	400	10	104.50
527447	CA-1906-400-25	400	25	194.65
527448	CA-1906-600-10	600	10	140.95
527449	CA-1906-600-25	600	25	268.15



TERMINALS-PROTECTORS

INDIANA STEEL AND WIRE TERMINAL HOUSINGS



For buried wire and cable installations. The 200 series can be pole or stake mounted. The D series is an all-purpose splicing, loading, cross-connect enclosure. All units are heavy-duty galvanized steel with a corrosion-resistant gray-green coating.

Ordering No.	Model No.	Description	Termination	Pair Capacity		Splicing In & Out	Height, In.	Price Ea.
				Loading				
S-523974	12-A	With stake	18	12		12	66	\$10.35
S-523975	12-AG	With stake	18	12		12	66	12.10
S-523966	218	Less stake	6-12	12		75	36	12.85
S-523967	224-A	Less stake	12	25		250	39¼	17.45
S-523968	238	Less stake	12-18	50		400	47⅝	24.40
S-523969	262	Less stake	12-18	75		600	47⅝	31.40
S-523963	D-1E	Less stake	18	100		900	42	49.50
S-523964	D-2E	Less stake	18	100		1800	42	56.85
S-523965	D-3E	Less stake	18	100		1400	42	71.70

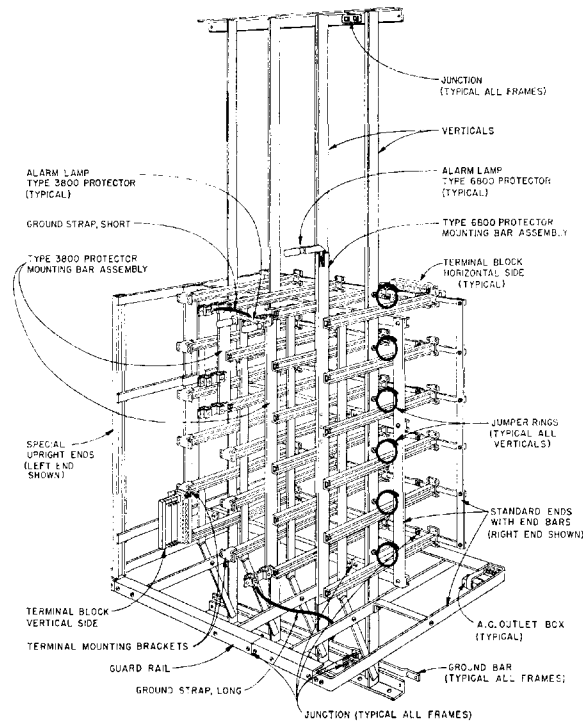
ACCESSORIES

Ordering No.	Model No.	Description	Price Ea.
526705	S-54	54" stake for all housings, galvanized	\$4.25*
526710	S-54-G	54" stake for all housings, green	5.55
526706	S-72	72" stake for all housings, galvanized	5.71*
526711	S-72-G	72" stake for all housings, green	7.25
526707	S-90	90" stake for all housings, galvanized	7.07*
526712	S-90-G	90" stake for all housings, green	8.75
526713	S-90-DG	90" double stake for joint-use housings—green only	14.05
520104	SA-4	4" sand/swamp anchor for all stakes	6.15*
.....	SA-6	6" sand/swamp anchor for all stakes	7.60*
573524	SD-1	Manual stake driver and protective cap for power driving	27.20
520733	F-2	Pole mounting bracket for all housings except D series	.50
524177	LK-1	Locking kit for D series, less padlock	.60
.....	LK-5G	Locking kit for 218 series, less padlock	2.00
524197	LK-6G	Locking kit for 224/238 series, less padlock	2.20
524199	LK-7G	Locking kit for 262 series, less padlock	2.30
520706	LC-200	Loading coil brackets for all units	1.00
.....	TS-300	Terminal strip for 238 & 262 series	1.00
S-527394	D-140	Terminal strip for D series	.80
S-520281	D-171	Cable splicing bar for D-1	.50
S-520282	D-172	Cable splicing bar for D-2	.60
S-520283	D-173	Cable splicing bar for D-3	.70
S-520581	D-1B	Equipment mounting board for D-1	3.90
S-520582	D-2B	Equipment mounting board for D-2	4.80
S-520583	D-3B	Equipment mounting board for D-3	6.40
S-524216	PLA-38	Plastic liner for old series 38	1.70
S-524217	PLA-62	Plastic liner for old series 62	2.00
S-522271	PL-18	Plastic liner for old series 18	.85
S-522272	PL-36	Plastic liner for old series 36	1.55

H-20

*Plus Freight

COOK TYPE L MAIN DISTRIBUTING FRAMES



Cook Electric manufactures a wide range of custom-built distributing frames to cover a variety of situations. Complete engineering services and assistance are available for planning a new frame or adding to an existing frame. All prices are quoted on request on a per-job basis. Engineering service is provided without charge.

The Type L frame is a combined main-and-intermediate floor model, with optional guard rail and ground bar, and verticals on eight-inch centers. To order the correct number of verticals for a type L frame, take the catalog number of the frame and add the appropriate suffix (-01, -02, etc., through -10). If more than ten verticals are required, order two or more frames to equal the total needed. Examples: (1) 001-2641-06 is a six-vertical frame; (2) 001-2641-12 is a twelve-vertical frame.

GUARD RAIL WIDTH—42½ INCHES; SHELF WIDTH—30 INCHES

Ordering No.	Number Shelves		Overall Height	Price Each per Number of Verticals									
	VT	H		-01	-02	-03	-04	-05	-06	-07	-08	-09	-10
001-2641	11	11	9'-0"	\$86.85	\$173.70	\$257.10	\$343.00	\$428.55	\$514.30	\$590.80	\$685.50	\$759.65	\$844.05
001-2761	11	10	9'-0"	86.40	172.80	255.30	340.40	425.70	510.60	586.50	670.35	754.15	838.10
001-2762	16	15	11'-6"	127.55	255.10	376.95	502.80	628.20	754.15	866.20	989.70	1113.60	1237.20
001-4463	16	16	11'-6"	129.00	258.00	381.00	508.05	635.30	762.20	875.70	1000.65	1125.85	1250.80
*001-8740	6	6	8'-0"	46.65	93.30	135.75	180.95	226.00	271.25	310.70	354.30	398.50	442.85
001-8743	10	10	8'-0"	85.75	171.50	249.75	332.85	416.05	499.20	570.25	651.95	733.35	814.65
**001-8746	6	6	9'-0"	46.65	93.30	135.75	180.95	226.00	271.25	310.70	354.30	398.50	442.85
001-8856	11	11	9'-0"	86.85	173.70	257.10	343.00	428.55	514.30	590.80	685.50	759.65	844.05
001-8751	16	15	11'-6"	127.55	255.10	376.95	502.80	628.20	754.15	866.20	989.70	1113.60	1237.20

GUARD RAIL WIDTH—36 INCHES; SHELF WIDTH—22¾ INCHES

*001-8741	6	6	8'-0"	45.60	91.20	138.20	179.45	224.15	269.15	309.05	358.70	397.50	441.65
001-8744	10	10	8'-0"	83.95	167.90	248.55	331.25	413.95	496.75	570.85	652.50	733.65	815.40
**001-8747	6	6	9'-0"	45.60	91.20	138.20	179.45	224.15	269.15	309.05	358.70	397.50	441.65
001-8749	11	11	9'-0"	85.10	170.20	251.75	335.65	419.25	503.20	578.10	660.80	743.50	825.95
001-8788	16	15	11'-6"	125.00	250.00	369.45	492.70	615.95	739.20	849.20	970.75	1091.90	1213.35

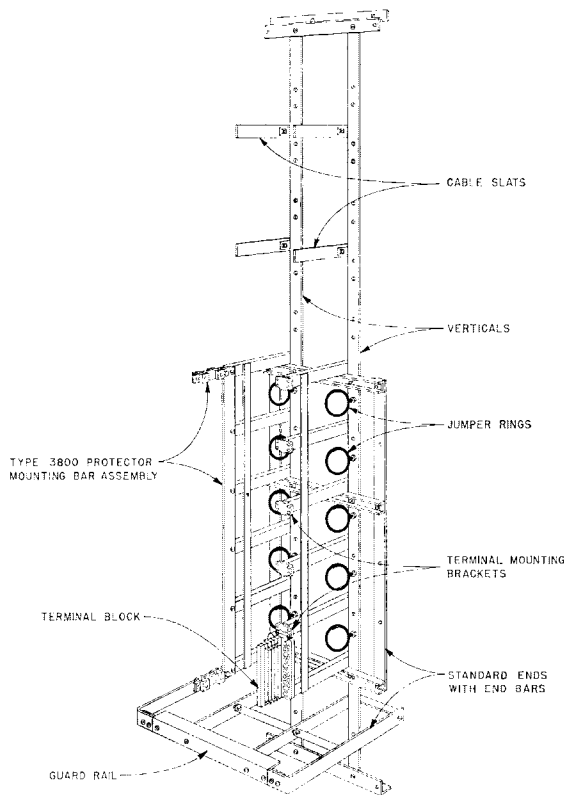
GUARD RAIL WIDTH—30 INCHES; SHELF WIDTH—18 INCHES

*001-8742	6	6	8'-0"	45.10	90.20	133.05	177.45	222.15	266.50	306.15	349.80	393.30	437.05
001-8745	10	10	8'-0"	83.30	166.60	246.00	327.95	410.20	492.25	565.45	646.35	727.00	807.80
**001-8748	6	6	9'-0"	45.10	90.20	133.05	177.45	222.15	266.50	306.15	349.80	393.30	437.05
001-8750	11	11	9'-0"	84.25	168.50	248.80	331.75	415.05	497.75	571.85	653.35	735.05	816.90

*Expands to 10 Shelves High

**Expands to 11 Shelves High

TERMINALS-PROTECTORS



COOK TYPE FW-9 FLOOR-WALL FRAME

Complete with fanning strips, junction material, ground bar, protector mounting bar for MDF's and terminal mounting brackets for IDF's.

Ordering No.	Description	Unit Each
135-161	1 Vertical IDF Mounts up to 6 Type 130 Terminal Blocks.....	\$53.95
135-162	1 Vertical MDF Mounts up to 100 Prs. Type 3800 Protectors -5-20 Pr. Units).....	68.35
135-163	2 Verticals IDF/1 Vertical MDF Mounts up to 12 Type 130 Terminal Blocks and 100 Prs. 3800 Protectors -5-20 Pr. Units).....	171.75
135-164	1 Vertical MDF Mounts up to 150 Prs. of Type 6600 or 6800 Protectors.....	52.80
135-165	2 Verticals IDF/1 Vertical MDF Mounts up to 12 Type 130 Terminal Blocks and 150 Prs. Type 6600 or 6800 Protectors.....	155.40

TYPE FW-9 STANDARD MANUFACTURE

Verticals on 8 Inch Centers, Guard Rail Width—23 Inches, Shelf Width—14 Inches.

Ordering No.	Number Shelves	Overall Height	Price Each per Number of Verticals				
			-01	-02	-03	-04	-05
001 8793	6	8'	\$45.10	90.20	133.05	177.45	222.15
001 8794	10	8'	83.30	166.60	246.00	327.95	410.20
001 8795	6	9'	45.10	90.20	133.05	177.45	222.15
001 8796	11	9'	84.25	168.50	248.80	331.75	415.05
			-06	-07	-08	-09	-10
001 8793	6	8'	\$266.50	306.15	349.80	393.30	437.05
001 8794	10	8'	492.25	565.45	646.35	727.00	807.80
001 8795	6	9'	266.50	306.15	349.80	393.30	437.05
001 8796	11	9'	497.75	571.85	653.35	735.05	816.90

COOK TYPE L IN-AISLE INTERMEDIATE DISTRIBUTING FRAMES

With 036-1303 terminal mtg. brackets. 8" centers. Guard rail width, 16". Shelf width, 11".

Single-Side Frames

Ordering No.	Number Shelves VT	H	Overall Height	Price Each per Number of Verticals									
				-01	-02	-03	-04	-05	-06	-07	-08	-09	-10
001-8782	11	1	9'-0"	\$ 84.25	168.50	248.80	331.75	415.05	497.75	571.85	653.35	735.05	816.90
001-8783	16	1	11'-6"	125.00	250.00	369.45	492.70	615.95	739.20	849.20	970.75	1091.90	1213.35

Double-Side Frames

One Shelf at Top of Frame for Bracing

001-8784	11	10	9'-0"	\$ 86.40	172.80	255.30	340.40	425.70	510.60	586.50	670.35	754.15	838.10
001-8785	16	15	11'-6"	127.55	255.10	376.95	502.80	628.20	754.15	866.20	989.70	1113.60	1237.20

COOK DISTRIBUTING FRAME—OPTIONAL EQUIPMENT AND ACCESSORIES

Guard Rails—8 Inch Centers

Number of Verticals	Price per Set	
	L Type Frame	FW-9 Frame
1	\$7.15	\$4.70
2	14.25	9.50
3	21.10	13.95
4	28.10	18.85
5	35.00	23.45
6	42.15	28.10
7	48.35	32.35
8	55.80	36.85
9	62.15	41.40
10	69.05	46.05

Ground Bar Assemblies—8 Inch Centers

Ordering No.	Number of Verticals	Price Each
023-4761	1	\$2.25
023-4762	2	4.55
023-4763	3	6.90
023-4764	4	9.25
023-4765	5	11.45
023-4766	6	13.80
023-4767	7	16.00
023-4768	8	18.35
023-4769	9	20.65
023-4770	10	23.00

23-4797 Guard Rail Junction Assembly, for all types.....each \$1.65

PROTECTOR FANNING STRIP ASSEMBLIES
For Type 3800 Protectors—Without Stub

Ordering No.	Pairs per Vertical	Price Each
40-2687	5—20	\$24.40
40-5367	9—20	44.00
40-2767	10—20	48.15
40-7537	2—50	24.40
40-7357	4—50	48.80
40-1050	6—50	73.05
40-2347	1—100 or 101	20.80
40-6937	2—100 or 101	41.70
40-404	3—100 or 101	62.65

For Type 3800 Protectors—With Stub

Ordering No.	Pairs per Vertical	Price Each
40-7538	2—50	\$12.20
40-7358	4—50	24.40
40-1351	6—50	36.55
40-2348	1—100 or 101	10.45
40-6938	2—100 or 101	20.80
40-1350	3—100 or 101	31.30

ACCESSORIES

Ordering No.	Description	Price Each
23-4791	Jumper Ring Assem.—3-inch Dia. Formed.....	\$2.45
23-4792	Jumper Ring Assem.—2 $\frac{7}{8}$ -inch Dia. Formed.....	1.65
23-4793	Jumper Ring Assem.—2-inch Dia. Straight.....	2.45
23-4794	Jumper Ring Assem.—1 $\frac{1}{2}$ -inch Dia. Straight.....	2.45
23-4795	Terminal Mounting Bracket.....	.28
23-4796	Outlet Box Assem.....	6.40
23-4798	Frame Junction—3 Cross Channels.....	1.18
23-4799	Frame Junction—4 Cross Channels.....	1.65
23-4800	Frame Junction—5 Cross Channels.....	1.96

Ordering No.	Description	Price Each
23-4801	Frame Junction—6 Cross Channels.....	\$2.45
24-2685	Standard Gray Touch-Up Paint (999-9980).....	1.65
	Special End Guard Uprights, 6, 10 or 11 Shelf Units.....set	117.50
	Special End Guard Uprights, 16 Shelf Units.....set	134.50

Fanning Strips

Protector Fanning Strips (Maple)	
Non-Standard Drilling.....per pr.	.29
Numbering All Fanning Strips.....per pr.	.08

COOK MODULAR FRAMES

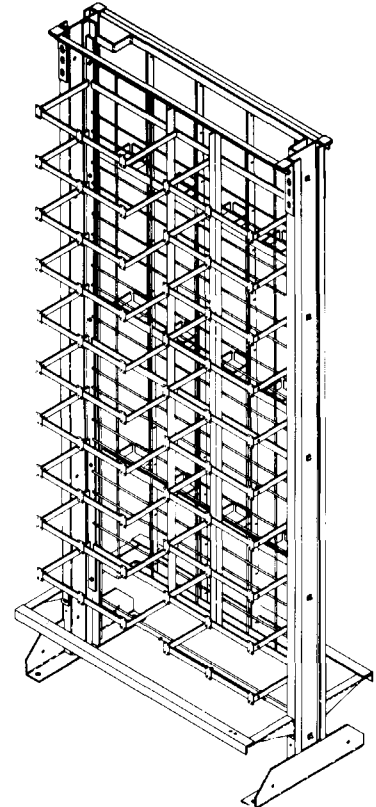
Cook Electric's factory-assembled, ready-to-install modular frames cut installation time. Their compact design also saves floor space. Order connectors and terminal blocks separately.

MAIN DISTRIBUTING FRAMES

Ordering No.	For Mounting	Max. Protected Pairs	Dimensions	Price Each
689-1505	16 C-303 connectors, 50 terminal blocks	1600	8'H x 24 $\frac{1}{2}$ "D	\$472.00
689-1506	20 C-310 connectors, 50 terminal blocks	2000	8'H x 24 $\frac{1}{2}$ "D	491.00
689-1512	16 C-303 connectors, 50 terminal blocks	1600	8'H x 30"D	553.00
689-1513	20 C-310 connectors, 50 terminal blocks	2000	8'H x 30"D	587.00
689-1532	20 C-303 connectors, 65 terminal blocks	2000	10'H x 33"D	651.00
689-1533	28 C-310 connectors, 65 terminal blocks	2800	10'H x 33"D	663.00
689-1544	20 C-310 connectors, 50 terminal blocks	2000	9'H x 24 $\frac{1}{2}$ "D	513.00

INTERMEDIATE DISTRIBUTING FRAMES

Ordering No.	Max. Blocks Mounted	Dimensions	Price Each
689-1507	86	8'H x 20 $\frac{1}{2}$ "D	\$539.00
689-1509	100	8'H x 24 $\frac{1}{2}$ "D	540.00
689-1519	130	10'H x 33"D	651.00



TERMINALS-PROTECTORS

COOK MODULAR FRAMES, Cont'd

LINE INTERMEDIATE DISTRIBUTING FRAMES

Ordering No.	For Mounting	Dimensions	Price Ea.
689-1508	60 C66M connector blocks	8'H x 24½" D	\$498.00
689-1518	80 C66M connector blocks	10'H x 24½" D	\$568.00

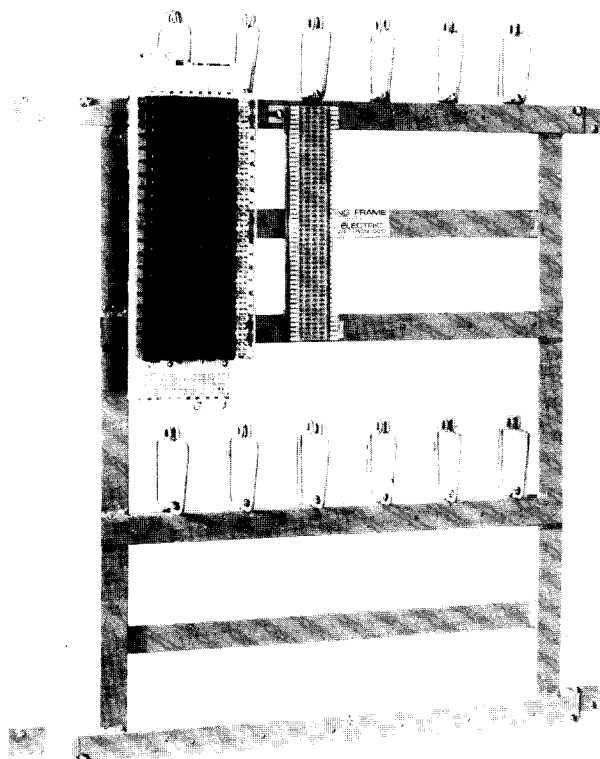
DOUBLE-SIDED PROTECTOR FRAMES

Ordering No.	For Mounting On Each Side	Max. Protected Pairs	Dimensions	Price Ea.
689-1510	20 C-303 connectors	4000	8'H x 24½"D	\$509.00
689-1511	25 C-310 connectors	5000	8'H x 24½"D	498.00
689-1520	25 C-303 connectors	5000	10'H x 24½"D	607.00
689-1521	30 C-310 connectors	6000	10'H x 24½"D	594.00

OPTIONAL MODULAR FRAME EQUIPMENT

Ordering No.	Description	Price Ea.
689-1432	110V AC electric outlet	\$6.40
24-2112	End bar. Keeps jumper wires neat.	14.10
689-1718	Jumper ring assembly	16.60

COOK MOUNTING GRIDS

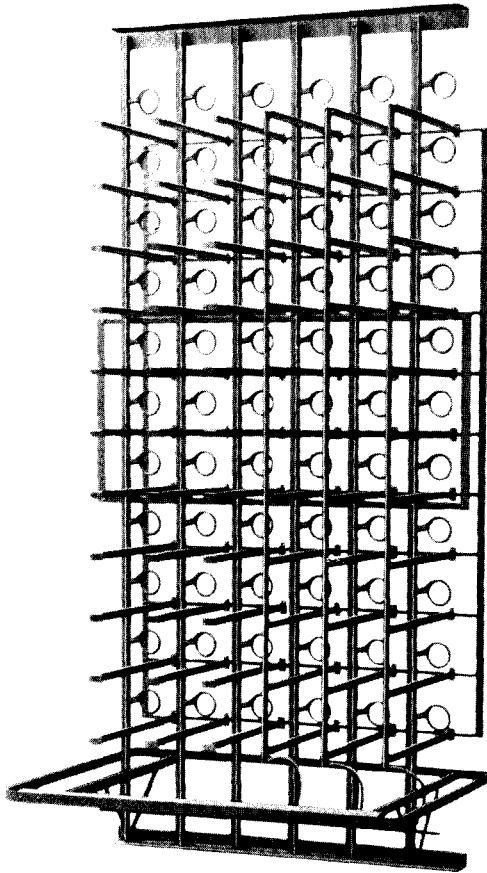


Cook mounting grids for PBX/PABX systems are available in 19- and 23-inch widths and in single and double row configurations, complete with jumper rings.

Up to five C-66M connecting blocks can be mounted on the single-row 19" model; the double-row 19" model accommodates ten blocks.

Up to six blocks mount on the single-row 23" model; the double-row 23" model holds twelve.

Ordering No.	Type	Description	Price Ea.
S-712763	303-1047	19" Single mounting grid	\$35.45
S-712761	303-1048	19" Double mounting grid	51.15
S-712764	303-1046	23" Single mounting grid	37.95
S-712762	303-1045	23" Double mounting grid	55.10



RELIABLE UNIVERSAL DISTRIBUTING FRAMES

Steel-fabricated frames, welded and bolted, with grey finish. Shelves and verticals on 8" centers unless otherwise specified. Equipped with insulated jumper rings, mounting angles, channel braces and horizontal stiffening bars for the line terminal blocks. A complete line of framework styles and accessories is available.

The vertical section, from which a main or intermediate type distributing frame is assembled, is universal. Simply order basic accessory equipment for either MDF or IDF application. This applies also to a combination-type distributing frame.

Indicate number of verticals required by adding suffix (-01, -02, through -10) to ordering number.

GUARD RAIL WIDTH—24 INCHES; SHELF WIDTH—10 INCHES

Ord. No.	Protector	Prs. R300	Number Shelves	Height	-01	-02	-03	Price Each	per Number of Verticals	-04	-05	-06	-07	-08	-09	-10
*2250	700	100-200	6	8'	\$44.26	\$ 87.82	\$131.28	\$174.95	\$219.31	\$262.39	\$306.12	\$349.63	\$393.40	\$438.03		
2251	350	200	10	8'	53.35	105.74	157.93	210.59	264.20	315.80	368.30	420.64	473.24	526.76		
**2254	200-400	100-200	6	9'	50.05	99.41	148.72	198.30	248.78	297.39	346.81	396.17	445.74	496.22		
2255	400	200	11	9'	56.76	112.50	167.93	223.88	280.85	335.90	391.65	447.29	503.24	560.00		

GUARD RAIL WIDTH—30 INCHES; SHELF WIDTH—16 INCHES

*2252	200-350	100-200	6	8'	47.61	94.47	141.22	188.30	236.33	282.39	329.36	376.22	423.35	471.28		
2253	350	200	10	8	56.60	112.39	167.93	223.83	280.85	335.80	391.54	447.23	503.19	559.95		
**2256	200-400	100-200	6	9'	49.20	97.82	146.22	194.95	244.68	292.34	341.01	389.57	438.30	487.87		
2257	400	200	11	9'	60.69	119.10	177.93	237.23	297.40	355.08	414.95	477.23	533.19	593.24		

GUARD RAIL WIDTH—36 INCHES; SHELF WIDTH—22 INCHES

**2258	200-400	100-200	6	9'	52.55	104.47	156.22	208.24	261.28	312.34	364.31	416.17	468.24	521.12		
2259	400	200	11	9'	65.05	129.10	192.93	257.18	322.39	385.74	449.84	513.83	578.09	643.19		
2260	600	300	16 VT, 15 H	11'6"	81.44	161.01	241.22	321.54	403.40	482.34	562.50	642.39	722.77	803.88		

GUARD RAIL WIDTH—42 INCHES; SHELF WIDTH—28 INCHES

2261	600	300	16 VT, 15 H	11'6"	83.88	165.90	248.67	331.54	415.90	497.29	579.95	662.34	745.27	828.88		
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SINGLE-SIDED, FLOOR-WALL GUARD RAIL WIDTH—22 INCHES; SHELF WIDTH—14 INCHES

*2262	200-350	100-200	6	8'	Price on Application
2263	350	200	10	8'	
**2264	200-400	100-200	6	9'	
2265	400	200	11	9'	

*Expands to 10 Shelves High

**Expands to 11 Shelves High

Prices are subject to change without notice.

TERMINALS-PROTECTORS

RELIABLE WALL COMBINATION DISTRIBUTING FRAMES

For small exchange or PBX installations. Frames mount R-300 or 700 type connectors with line terminal blocks. Prices on request.

FOR TYPE R-300 CONNECTORS

Ordering No.	Capacity Protector Prs.	No. of Line Term. Blocks	Ht. In.	Price Each
2280	20	1	11¼	25.90
2281	2-20	2	19¼	35.84
2282	50	2	21	39.26
2283	3-20	3	27¼	41.69
2284	100	5	43¼	47.22
2285	5-20	5	43¼	53.76

FOR TYPE 700 CONNECTORS

Ordering No.	Capacity Protector Prs.	No. of Line Term. Blocks	Ht. In.	Price Each
2275	100	3	27¼	41.69
2276	150	5	43¼	51.56
2277	200	5	43¼	53.76

RELIABLE FRAME ACCESSORIES

CONNECTOR MOUNTING BARS

Steel bars are drilled and tapped to mount Types R-300 and 700 Central Office Connectors on vertical side of frames.

For Type R-300 Connectors

Ordering No.	Description	Connector Arrangement, Top Down	Cap. Pr.	Length, In.	Price Each
P-14051	For bottom of 6-shelf frame expandable to 10 shelves	1-100 pair or 2-50 pair	100	43	\$12.73
P-14057	For bottom of 6-shelf frame expandable to 11 shelves	1-100 pair or 2-50 pair	100	43	12.73
P-14340	For top of 6-shelf frame expandable to 11 shelves	1-100 pair or 2-50 pair	100	39	12.04
P-13874	For all 11-shelf frames	2-100 pair or 4-50 pair	200	82	19.11
P-14046	For all 10-shelf frames	2-100 pair or 4-50 pair	200	75	16.98
P-14061	For all 16-shelf frames	3-100 pair or 6-50 pair	300	122	21.00

For Type 700 Connectors

P-14053	For bottom of 6-shelf expandable to 10 or 11 shelves	2-100 pair or 4-50 pair	200	43	12.60
P-14342	For top of 6-shelf expandable to 11 shelves	2-100 pair or 4-50 pair	200	39	11.91
P-14041	For all 11-shelf frames	4-100 pair or 8-50 pair	400	82	19.11
P-14050	For all 10-shelf frames	3-100 and 1-50 pair or 7-50 pair	350	74	16.80
P-14042	For all 16-shelf frames	6-100 pair or 12-50 pair	600	122	21.22

UNIVERSAL CONNECTOR MOUNTING BARS

P-14045	For converting existing frames to Type 700 connectors	2-100 pair or 4-50 pair Type 700	200	40	3.88
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TERMINAL BLOCK MOUNTING BRACKETS

Ordering No.	Description	Price Each
2357-1	Terminal Block Mounting Bracket, with mounting hardware.	\$2.28

GUARD RAIL ASSEMBLIES

Order by distribution frame ordering number, and add the appropriate number suffix shown below. Prices on application.

Number of Verticals	Suffix
1	-11
2	-12
3	-13
4	-14
5	-15
6	-16
7	-17
8	-18
9	-19
10	-20

END GUARD ASSEMBLIES

Attach to frame ends, to provide end protection to equipment mounted on frames. To order End Guard Assemblies for frames without guard rails, add suffix -21 to frame ordering number. To order Assemblies for frames with guard rails, add suffix -22. Prices on application.

H-26

Prices are subject to change without notice.

RELIABLE FRAME ACCESSORIES—CONT'D

SPECIAL BOX-TYPE END GUARD UPRIGHT ASSEMBLIES

For extra protection at ends of frames from rolling ladders, equipment, etc. Mounting hardware provided with assembly. Each assembly provides one pair of uprights for each end of frame. To order, add suffix -23 to frame ordering number. Price on application.

GROUND STRAP ASSEMBLY

No. 6 stranded insulated copper ground wire with terminal lugs at each end. Provides a continuous ground between the connector mounting bar and the ground bar assembly. Order one ground strap assembly for each M.D.F. vertical supporting outside plant protection. Includes all mounting hardware.

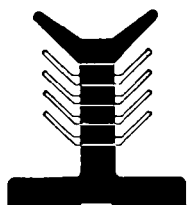
2356-1 Ground Strap Assembly with mounting hardware.....each **\$1.33**

GROUND BAR ASSEMBLIES

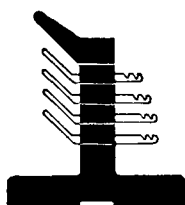
Copper bar, $\frac{3}{16}$ " x $\frac{5}{8}$ " in cross-section, provides a continuous ground for verticals. Used on all types of frames. Includes all mounting hardware. Suffix on ordering number indicates verticals requiring ground bars.

Ordering No.	Price Each	Ordering No.	Price Each
2350-01	\$2.72	2350-06	\$15.62
2350-02	5.28	2350-07	18.21
2350-03	7.87	2350-08	20.79
2350-04	10.45	2350-09	23.36
2350-05	13.02	2350-10	25.53

COOK TYPE 130 LINE TERMINAL BLOCKS



Wire wrap terminals,
both sides.



Wire wrap terminals
on one side,
solder terminals
on other.

Available with bakelite mounting base and adjustable mounting bracket to mount the block vertically or horizontally on frames having shelf centers of $7\frac{1}{2}$, 8, $8\frac{1}{2}$ and 9 inches, and block mounting centers of 7, $7\frac{1}{2}$, 8 and $8\frac{1}{2}$ x $1\frac{3}{8}$ inches. Overall dimensions, with base: length, $7\frac{15}{32}$ "; width, $2\frac{19}{32}$ ". Also available without mounting base, arranged for 7-inch mounting centers.

Also available with pre-assembled single or double terminal guards. For block with single guard (suggested for blocks with one side wire wrap and one side soldered), change first 3 digits of ordering number to 131-. Price on application.

For block with double guard (suggested for blocks with both sides wire wrap), change first 3 digits of ordering number to 132-. Price on application.

WITH BAKELITE MOUNTING BASE AND ADJUSTABLE MOUNTING BRACKET

20 Clips Long

Ord. No., Wire Wrap Terminals Only	Ord. No., 1-side Wire Wrap, 1-side Solder	Ord. No. Solder Terminals Only	Term. Clips High	Height of Terms In.	Price Each
130-1602	130-1702	130-1202	2	$2\frac{1}{4}$	\$5.20
130-1603	130-1703	130-1203	3	$2\frac{5}{8}$	6.10
130-1604	130-1704	130-1204	4	3	7.00
130-1605	130-1705	130-1205	5	$3\frac{3}{8}$	7.90
130-1606	130-1706	130-1206	6	$3\frac{3}{4}$	8.80
130-1607	130-1707	130-1207	7	$4\frac{1}{8}$	9.70
130-1608	130-1708	130-1208	8	$4\frac{1}{2}$	10.60
130-1609	130-1709	130-1209	9	$4\frac{7}{8}$	11.50
130-1610	130-1710	130-1210	10	$5\frac{1}{4}$	12.40
130-1611	130-1711	130-1211	11	$5\frac{5}{8}$	13.30
130-1612	130-1712	130-1212	12	6	14.20

26 Clips Long

Ord. No., Wire Wrap Terminals Only	Ord. No., 1-side Wire Wrap, 1-side Solder	Ord. No. Solder Terminals Only	Term. Clips High	Height of Terms In.	Price Each
130-1622	130-1722	130-1222	2	$2\frac{1}{4}$	5.30
130-1623	130-1723	130-1223	3	$2\frac{5}{8}$	6.25
130-1624	130-1724	130-1224	4	3	7.20
130-1625	130-1725	130-1225	5	$3\frac{3}{8}$	8.15
130-1626	130-1726	130-1226	6	$3\frac{3}{4}$	9.10
130-1627	130-1727	130-1227	7	$4\frac{1}{8}$	10.05
130-1628	130-1728	130-1228	8	$4\frac{1}{2}$	11.00
130-1629	130-1729	130-1229	9	$4\frac{7}{8}$	11.95
130-1630	130-1730	130-1230	10	$5\frac{1}{4}$	12.90
130-1631	130-1731	130-1231	11	$5\frac{5}{8}$	13.85
130-1632	130-1732	130-1232	12	6	14.80

WITHOUT MOUNTING BASE, ARRANGED FOR 7" MOUNTING CENTERS

20 Clips Long

Ord. No., Wire Wrap Terminals Only	Ord. No., 1-side Wire Wrap, 1-side Solder	Ord. No. Solder Terminals Only	Term. Clips High	Height of Terms In.	Price Each
130-1402	130-1502	130-1102	2	$1\frac{17}{32}$	\$3.45
130-1403	130-1503	130-1103	3	$1\frac{7}{8}$	4.35
130-1404	130-1504	130-1104	4	$2\frac{1}{32}$	5.25
130-1405	130-1505	130-1105	5	$2\frac{9}{16}$	6.15
130-1406	130-1506	130-1106	6	$3\frac{1}{4}$	7.05
130-1407	130-1507	130-1107	7	$3\frac{19}{32}$	7.95
130-1408	130-1508	130-1108	8	$3\frac{15}{16}$	8.85
130-1409	130-1509	130-1109	9	$4\frac{3}{32}$	9.75
130-1410	130-1510	130-1110	10	$4\frac{5}{8}$	10.65

26 Clips Long

Ord. No., Wire Wrap Terminals Only	Ord. No., 1-side Wire Wrap, 1-side Solder	Ord. No. Solder Terminals Only	Term. Clips High	Height of Terms In.	Price Each
130-1422	130-1522	130-1122	2	$1\frac{17}{32}$	3.50
130-1423	130-1523	130-1123	3	$1\frac{7}{8}$	4.45
130-1424	130-1524	130-1124	4	$2\frac{1}{32}$	5.40
130-1425	130-1525	130-1125	5	$2\frac{9}{16}$	6.35
130-1426	130-1526	130-1126	6	$3\frac{1}{4}$	7.30
130-1427	130-1527	130-1127	7	$3\frac{19}{32}$	8.25
130-1428	130-1528	130-1128	8	$3\frac{15}{16}$	9.20
130-1429	130-1529	130-1129	9	$4\frac{3}{32}$	10.15
130-1430	130-1530	130-1130	10	$4\frac{5}{8}$	11.10

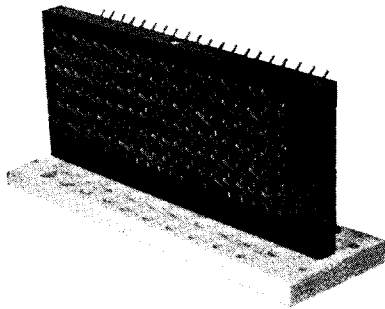
Prices are subject to change without notice.

H-27

TERMINALS-PROTECTORS

COOK TYPE 5000 TERMINAL BLOCKS

WITH MAPLE MOUNTING BASE FOR MOUNTING ON 8 IN. SHELF CENTERS



Wire Wrapped
Terminals only

20 CLIP BLOCKS

Overall Dimensions: Length $7\frac{1}{32}$ in.—Width $2\frac{1}{32}$ in.
Mounting Centers: 7 in. x $1\frac{1}{8}$ in.

Ordering No.					
With Wire Wrapped Terminals Only	1-Side Wire Wrapped 1-Side Solder	With Solder Terminals Only	Number of Clips	Height of Terminals, Inches	Price Each
130-3822	130-3722	130-3922	2x20	2 ¹ / ₃₂	\$10.45
130-3823	130-3723	130-3923	3x20	2 ³ / ₃₂	11.35
130-3824	130-3724	130-3924	4x20	2 ²³ / ₃₂	12.25
130-3825	130-3725	130-3925	5x20	3 ¹ / ₁₆	13.15
130-3826	130-3726	130-3926	6x20	3 ¹³ / ₃₂	14.05
130-3827	130-3727	130-3926	7x20	3 ³ / ₄	14.95
130-3828	130-3728	130-3928	8x20	4 ³ / ₃₂	15.85
130-3829	130-3729	130-3929	9x20	4 ⁷ / ₁₆	16.75
130-3830	130-3730	130-3930	10x20	4 ²⁵ / ₃₂	17.65

26 CLIP BLOCKS

Overall Dimensions: Length $7\frac{1}{32}$ in.—Width $2\frac{1}{32}$ in.
Mounting Centers: 7 in. x $1\frac{1}{8}$ in.

130-3842	130-3742	130-3942	2x26	$2\frac{1}{32}$	\$10.70
130-3843	130-3743	130-3943	3x26	$2\frac{3}{32}$	11.65
130-3844	130-3744	130-3944	4x26	$2\frac{23}{32}$	12.60
130-3845	130-3745	130-3945	5x26	$3\frac{1}{16}$	13.55
130-3846	130-3746	130-3946	6x26	$3\frac{13}{32}$	14.50
130-3847	130-3747	130-3947	7x26	$3\frac{3}{4}$	15.45
130-3848	130-3748	130-3948	8x26	$4\frac{3}{32}$	16.40
130-3849	130-3749	130-3949	9x26	$4\frac{7}{16}$	17.35
130-3850	130-3750	130-3950	10x26	$4\frac{25}{32}$	18.30

20 CLIP BLOCKS

Overall Dimensions: Length $7\frac{1}{32}$ in.—Width $2\frac{1}{32}$ in.
Mounting Centers: $7\frac{1}{2}$ x $1\frac{1}{8}$ in.

Ordering No.						
With Wire Wrapped Terminals Only	1-Side Wire Wrapped 1-Side Solder	With Solder Terminals Only	Number of Clips	Height of Terminals, Inches	Price Each	
130-3802	130-3702	130-3902	2x20	2 $\frac{1}{32}$	\$10.45	
130-3803	130-3703	130-3903	3x20	2 $\frac{3}{32}$	11.35	
130-3804	130-3704	130-3904	4x20	2 $\frac{23}{32}$	12.25	
130-3805	130-3705	130-3905	5x20	3 $\frac{1}{16}$	13.15	
130-3806	130-3706	130-3906	6x20	3 $\frac{13}{32}$	14.05	
130-3807	130-3707	130-3907	7x20	3 $\frac{3}{4}$	14.95	
130-3808	130-3708	130-3908	8x20	4 $\frac{3}{32}$	15.85	
130-3809	130-3709	130-3909	9x20	4 $\frac{7}{16}$	16.75	
130-3810	130-3710	130-3910	10x20	4 $\frac{25}{32}$	17.65	

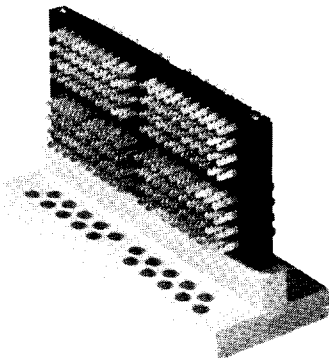
26 CLIP BLOCKS

Overall Dimensions: Length $7\frac{1}{32}$ in.—Width $2\frac{1}{32}$ in.
Mounting Centers: $7\frac{1}{2}$ in. x $1\frac{1}{8}$ in.

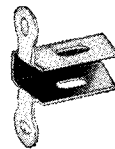
130-3782	130-3682	130-3882	2x26	$2\frac{1}{32}$	\$10.70
130-3783	130-3683	130-3883	3x26	$2\frac{3}{32}$	11.65
130-3784	130-3684	130-3884	4x26	$2\frac{23}{32}$	12.60
130-3785	130-3685	130-3885	5x26	$3\frac{1}{16}$	13.55
130-3786	130-3686	130-3886	6x26	$3\frac{13}{32}$	14.50
130-3787	130-3687	130-3887	7x26	$3\frac{3}{4}$	15.45
130-3788	130-3688	130-3888	8x26	$4\frac{3}{32}$	16.40
130-3789	130-3689	130-3889	9x26	$4\frac{7}{16}$	17.35
130-3790	130-3690	130-3890	10x26	$4\frac{25}{32}$	18.30

COOK TYPE 1100 LINE TERMINAL BLOCKS

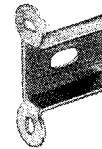
SOLID HARD RUBBER



Overall Dimensions: 3 in. wide x $7\frac{1}{32}$ in. long.
With maple base.



Type 36-163
Bracket
for Horizontal Mtg.



Type 36-27
Bracket
for Vertical Mtg.

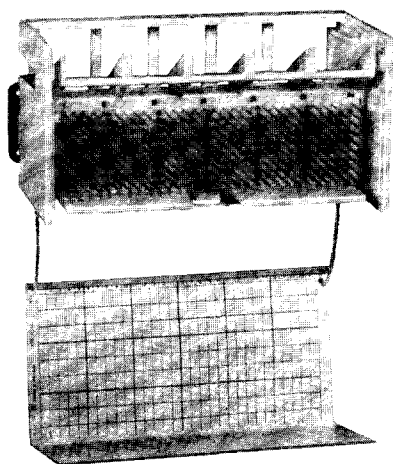


Type 36-1
Bracket with Ring
for Vertical Mtg.

Without Base. For mounting on 1100 series block continuous maple distributing strip.

COOK TYPE 1100 LINE TERMINAL BLOCKS—CONTINUED

20 CLIP BLOCKS				20 CLIP BLOCKS			
Ordering No.	Number of Clips	Height Inches	Price Each	Ordering No.	Number of Clips	Height Inches	Price Each
3-172	2x20	2 $\frac{1}{4}$	\$18.20	3-212	2x20	$\frac{7}{8}$	\$10.45
3-173	3x20	2 $\frac{9}{16}$	19.95	3-213	3x20	1 $\frac{1}{16}$	12.20
3-174	4x20	2 $\frac{7}{8}$	21.70	3-214	4x20	1 $\frac{1}{2}$	13.95
3-175	5x20	3 $\frac{1}{16}$	23.45	3-215	5x20	2 $\frac{1}{16}$	15.70
3-176	6x20	3 $\frac{1}{4}$	25.20	3-216	6x20	2 $\frac{3}{8}$	17.45
3-177	7x20	4 $\frac{1}{16}$	26.95	3-217	7x20	2 $\frac{11}{16}$	19.20
3-178	8x20	4 $\frac{3}{8}$	28.70	3-218	8x20	3	20.95
3-179	9x20	4 $\frac{15}{16}$	30.45	3-219	9x20	3 $\frac{1}{16}$	22.70
3-180	10x20	5 $\frac{1}{4}$	32.20	3-220	10x20	3 $\frac{7}{8}$	24.45
3-181	11x20	5 $\frac{9}{16}$	33.95	3-221	11x20	4 $\frac{1}{16}$	26.20
3-182	12x20	5 $\frac{7}{8}$	35.70	3-222	12x20	4 $\frac{1}{2}$	27.95
26 CLIP BLOCKS				26 CLIP BLOCKS			
3-183	2x26	2 $\frac{1}{4}$	18.75	3-235	2x26	$\frac{7}{8}$	10.95
3-184	3x26	2 $\frac{9}{16}$	20.55	3-236	3x26	1 $\frac{1}{16}$	12.75
3-185	4x26	2 $\frac{7}{8}$	22.35	3-237	4x26	1 $\frac{1}{2}$	14.55
3-186	5x26	3 $\frac{1}{16}$	24.15	3-238	5x26	2 $\frac{1}{16}$	16.35
3-187	6x26	3 $\frac{1}{4}$	25.95	3-239	6x26	2 $\frac{3}{8}$	18.15
3-188	7x26	4 $\frac{1}{16}$	27.75	3-240	7x26	2 $\frac{11}{16}$	19.95
3-189	8x26	4 $\frac{3}{8}$	29.55	3-241	8x26	3	21.75
3-190	9x26	4 $\frac{15}{16}$	31.35	3-242	9x26	3 $\frac{1}{16}$	23.55
3-191	10x26	5 $\frac{1}{4}$	33.15	3-243	10x26	3 $\frac{7}{8}$	25.35
3-192	11x26	5 $\frac{9}{16}$	34.95	3-244	11x26	4 $\frac{1}{16}$	27.15
3-193	12x26	5 $\frac{7}{8}$	36.75	3-245	12x26	4 $\frac{1}{2}$	28.95

ROTATING LINE TERMINAL BLOCKS


Block rotates 180° for fast wire-wrapping on both sides. Dust cover (shown attached) must be ordered separately.

Ordering No.	No. Pins	Configuration	Std. Pkg.	Price Each
130-4420	80	4x20	1	\$13.90
130-4620	120	6x20	1	14.90
130-4820	160	8x20	1	15.90
130-4330	90	3x30	1	13.40
130-4430	120	4x30	1	14.00
130-4630	180	6x30	1	15.20
130-4830	240	8x30	1	16.40
130-4930	270	9x30	1	16.95
130-0255	Optional Dust Cover			1.65

TYPE 130 LINE TERMINAL BLOCKS

Fixed base, without guards.

Wire Wrap & Solder	Ordering No's. Wire Wrap Only	Solder Only	No. Clips	Price Each
130-2722	130-2222	130-2222	2x26	\$4.05
130-2723	130-2623	130-2223	3x26	5.00
130-2724	130-2624	130-2224	4x26	5.95
130-2725	130-2625	130-2225	5x26	6.90
130-2726	130-2626	130-2226	6x26	7.85
130-2727	130-2627	130-2227	7x26	8.80
130-2728	130-2628	130-2228	8x26	9.75
130-2729	130-2629	130-2229	9x26	10.70
130-2730	130-2630	130-2230	10x26	11.65
130-2731	130-2631	130-2231	11x26	12.60
130-2732	130-2632	130-2232	12x26	13.55

Fixed base, with guards.

Ordering No., Wire Wrap & Solder	No. Clips	Price Ea.	Ordering No., Wire Wrap Only	No. Clips	Price Each
131-2722	2x26	\$4.30	132-2622	2x26	\$4.35
131-2723	3x26	5.25	132-2623	3x26	5.30
131-2724	4x26	6.20	132-2624	4x26	6.25
131-2725	5x26	7.15	132-2625	5x26	7.20
131-2726	6x26	8.10	132-2626	6x26	8.15
131-2727	7x26	9.05	132-2627	7x26	9.10
131-2728	8x26	10.00	132-2628	8x26	10.05
131-2729	9x26	10.95	132-2629	9x26	11.00
131-2730	10x26	11.90	132-2630	10x26	11.95
131-2731	11x26	12.85	132-2631	11x26	12.90
131-2732	12x26	13.80	132-2632	12x26	13.85

TERMINALS-PROTECTORS

RELIABLE TYPE G LINE TERMINAL BLOCKS

FOR MAIN DISTRIBUTING FRAMES



Molded, high grade phenolic material in 20 or 26 pair lengths, up to 12 rows high. Each block mounts vertically or horizontally on standard $1\frac{3}{8}$ by $7\frac{1}{2}$ -inch mounting centers. A front guard protects personnel and terminals. The forty-five degree terminal angle makes wire wrapped connections easy. Blocks will be numbered if specified.

Type GS—terminals for soldered connections on both sides

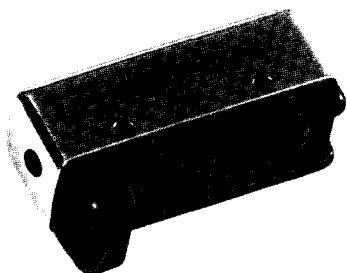
Type GSW—terminals for soldered connections on one side and wire wrapped connections on other side.

Type GW—terminals to be wire wrapped on both sides.

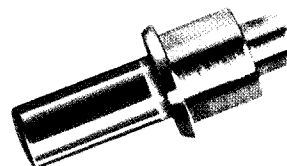
Type	Type	Type	Price Each
GS- 2x20	GSW- 2x20	GW- 2x20	\$4.36
GS- 3x20	GSW- 3x20	GW- 3x20	4.91
GS- 4x20	GSW- 4x20	GW- 4x20	5.55
GS- 5x20	GSW- 5x20	GW- 5x20	6.29
GS- 6x20	GSW- 6x20	GW- 6x20	7.14
GS- 7x20	GSW- 7x20	GW- 7x20	7.93
GS- 8x20	GSW- 8x20	GW- 8x20	8.77
GS- 9x20	GSW- 9x20	GW- 9x20	9.56
GS-10x20	GSW-10x20	GW-10x20	10.41
GS-11x20	GSW-11x20	GW-11x20	11.14
GS-12x20	GSW-12x20	GW-12x20	11.86
GS- 2x26	GSW- 2x26	GW- 2x26	4.54
GS- 3x26	GSW- 3x26	GW- 3x26	5.20
GS- 4x26	GSW- 4x26	GW- 4x26	6.11
GS- 5x26	GSW- 5x26	GW- 5x26	6.96
GS- 6x26	GSW- 6x26	GW- 6x26	7.86
GS- 7x26	GSW- 7x26	GW- 7x26	8.77
GS- 8x26	GSW- 8x26	GW- 8x26	9.69
GS- 9x26	GSW- 9x26	GW- 9x26	10.53
GS-10x26	GSW-10x26	GW-10x26	11.43
GS-11x26	GSW-11x26	GW-11x26	12.35
GS-12x26	GSW-12x26	GW-12x26	13.19

REPLACEMENT UNITS FOR CENTRAL OFFICE PROTECTORS

MESA® CARBON ARRESTERS



GAS TUBE UNITS



For Cook 3800 and WE C-50 protectors.

Ordering No.	Color Code	Striking Voltage, DC	Std. Pkg.	Price Each
041-3850	Yellow	1000	50	\$.92
041-3853	Orange	350	50	.92
041-3854	White	450	50	.92
041-3856	Blue	650	50	.92

Cook Electric fail-safe protector unit for type 300 central office connectors made by Western Electric, Reliable Electric, and Northern Electric. Can be used to replace existing carbon arresters and heat coils.

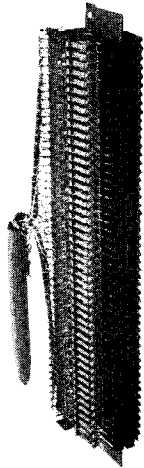
Ordering No.	Striking Voltage, DC	Std. Pkg.	Price Each
41-3000	350	10	\$2.95

FAIL-SAFE PROTECTOR UNITS

Joslyn gas tube unit provides noiseless operation. For WE C-50A and C-52A and Cook Electric 3800 protectors.

Ordering No.	Type	Breakdown Voltage, DC	Price Each
798339	2022-28	250-500	\$2.15

COOK TYPE 3800 CENTRAL OFFICE PROTECTORS



Equipped with MESA® fail-safe carbon arrester modules, which are capable of withstanding many more strikes than carbon discharge blocks. Striking voltage, 450 DC.

Type	Description	Mtg. Ctrs. In.	Depth In.	Price Each
380-1320	20-Pr. Section	8 $\frac{5}{8}$	4 $\frac{3}{4}$	\$114.50
380-1350	50-Pr. Section	19 $\frac{7}{8}$	4 $\frac{7}{8}$	263.50
380-1351	51-Pr. Section	20 $\frac{1}{4}$	4 $\frac{3}{4}$	270.85
380-1361	101-Pr. Section	39	4 $\frac{3}{4}$	514.55

ACCESSORIES

Ordering No.	Type	Description	Price
S-792980	380-278	Circuit Cover. Fits over one pair of Type 3800 protector units to cover the heat coils and latching springs. Self-extinguishing clear plastic.....per 100	\$19.35
S-790652	380-30	Heat Coil.....per 100	67.80
790655	380-83	Dummy 3800 Heat Coil.....per 100	27.50
790654	394-2	Dummy 100-105 Heat Coil.....pkg of 50	36.50
S-585662	380-324	Type 3800 Insulation Pick, Green.....per 100	6.37
S-585663	380-322	Type 3800 Insulation Pick, Red.....per 100	6.37
S-585664	380-325	Type 3800 Insulation Pick, White.....per 100	6.37
S-585665	380-323	Type 3800 Insulation Pick, Yellow.....per 100	6.37
.....	41-3856	Discharge Block with .005-Inch Dielectric.....pkg of 50	46.00
.....	41-3854	Discharge Block with .003-Inch Dielectric.....pkg of 50	46.00

COOK TYPE 6800 CENTRAL OFFICE PROTECTORS

Ordering No.	Description	Cap. Pairs	Air Gap, Inches	Dimensions, Inches	Price Each
688-7000	With 20-ft. Stub.....	101	.003	27 x 3 $\frac{3}{4}$ x 6	\$605.75
688-6800	With 20-ft. Stub.....	100	.003	26 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 6	597.75
688-6850	With 20-ft. Stub.....	50	.003	13 $\frac{1}{4}$ x 3 $\frac{3}{4}$ x 6	315.25
688-7099	Without Stub.....	101	.003	27 x 3 $\frac{3}{4}$ x 6	494.75
688-6899	Without Stub.....	100	.003	26 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 6	486.75
688-6849	Without Stub.....	50	.003	13 $\frac{1}{4}$ x 3 $\frac{3}{4}$ x 6	247.25

COOK TYPE 6800 MODULES

With Heat Coils and Minigap Arresters.

Ordering No.	Type	Description	Price Each
S-744575	6800	Module with resettable heat coil and carbon 450-volt arrester.....	\$4.05
744580	6700	Module equipped for carbon protection, less carbon arresters.....	1.31
S-746209	6600	Module with carbon 450-volt arresters.....	2.39
688-0299		1-pr. heat coil and gas arrester module for 6800 protector.....	7.41
688-0280		1-pr. gas arrester module for type 6600 protector.....	5.75

ACCESSORIES

			Price
S-586301	688-154	Type 6800 Test Cork and Plug (20-foot cord and 1 plug) . Ea.	\$28.00
744576	688-103	Receptacle for two modules only.....Ea.	1.59
763509	688-134	Terminal Guard for 50-pair unit.....Ea.	3.24
S-763510	688-138	Terminal Guard for 101- or 100-pair unit.....Ea.	6.03
S-585661	688-0035	Black insulating picks—100... ..	4.29
S-585658	688-272	Red insulating picks—100... ..	4.29
S-585656	688-273	Gray insulating picks—100... ..	4.29
S-585659	688-274	White insulating picks—100... ..	4.29
S-585657	688-300	Green insulating picks—100... ..	4.29
S-585660	688-301	Yellow insulating picks—100... ..	4.29
S-581951	688-36	Extractor Module Hook... ..Ea.	.33
S-581953	688-170	Extractor Module Plier... ..Ea.	8.05
S-790108	688-11	Carbon Arrester—100... ..	54.30
S-712742	688-46	Alarm lamp holder.....Ea.	3.24
.....	688-11	MESA carbon arrester—100... ..	54.30
.....	41-0670	30V fail-safe gas arrester for 6800 & 6600 modules.....Ea.	2.22
763509	688-134	Clear plastic 50-pair Terminal Guard, for permanently wired side of space saver protector. Protects hands while working in between protector banks. Ea.	3.24
S-763510	688-138	Terminal Guard, same as above, but 101 pair.....each	6.03

COOK 50-PR. MAIN FRAME CONNECTORS



Miniaturized unit measuring only 10.06" high, available with choice of protection:

- 3A—MESA carbon arrester (450V DC)
- 4A—Heat coil and MESA carbon arrester
- 5A—Unprotected

Stubless Type

Includes temporary mounting bracket for stub.

Ordering No.	Module Color	Type of Protection	Price Each
353-0000	.....	Base, less modules	\$131.00
353-3000	Black	3A	254.00
353-4000	Black	4A	313.50
353-5000	Black	5A	210.00

With 20-ft. 22-ga. Stub

353-0022	.....	Base, less modules	142.00
353-3022	Black	3A	203.50
353-4022	Black	4A	233.50
353-5022	Black	5A	182.50

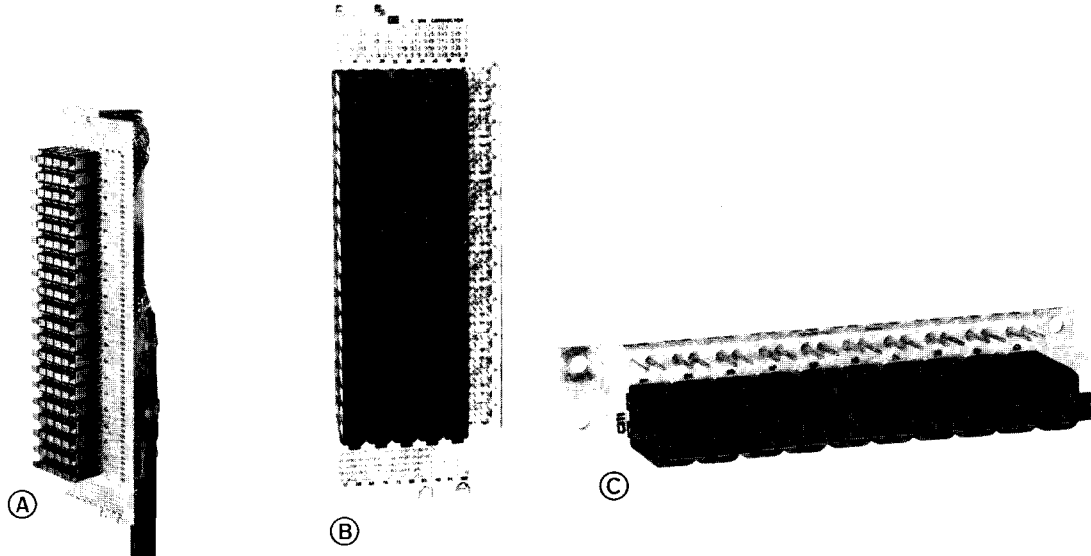
With 20-ft. 24-ga. Stub

353-0042	.....	Base, less modules	
353-3042	Black	3A	} Price on Application
353-4042	Black	4A	
353-5042	Black	5A	

Longer stubs available in 10-ft. increments.

TERMINALS-PROTECTORS

CONNECTORS



(A) COOK TYPE C-303 MAIN FRAME CONNECTORS

100-pair unit available with choice of protection:
 3A—MESA® carbon arrester (450V DC)
 4A—Heat coil and MESA arrester
 5A—Unprotected

Stubless Type

Includes temporary mounting bracket for stub.

Ordering No.	Type	Module Color	Type of Protection	Price Each
S-710349	303-0000	.....	Base, less modules	\$131.00
.....	303-3000	Black	3A	254.00
S-711489	303-4000	Black	4A	313.50
.....	303-5000	Black	5A	210.00
With 20-ft. 22-ga. Stub				
.....	303-0022	.....	Base, less modules	242.00
.....	303-3022	Black	3A	365.00
.....	303-4022	Black	4A	424.50
.....	303-5022	Black	5A	321.00
With 20-ft. 24-ga. Stub				
.....	303-0042	.....	Base, less modules	234.50
.....	303-3042	Black	3A	357.50
.....	303-4042	Black	4A	417.50
.....	303-5042	Black	5A	313.50

Longer stubs available in 10-ft. increments.

(B) COOK TYPE C-310 MAIN FRAME CONNECTORS

Compact 100-pair unit available with same choice of protection as C-303 connector shown above. Stubless type includes temporary mounting bracket for stub. Longer stubs than those indicated are available in 10-ft. increments.

TYPE C-310 CONNECTORS, Cont'd

Stubless Type

Ordering No.	Type	Module Color	Type of Protection	Price Each
S-711479	310-0000	.....	Base, less modules	\$131.00
.....	310-3000	Black	3A	254.00
.....	310-4000	Black	4A	313.50
.....	310-5000	Black	5A	210.00

With 20-ft. 22-ga. Stub

S-711480	310-0022	.....	Base, less modules	242.00
.....	310-3022	Black	3A	365.00
.....	310-4022	Black	4A	424.50
.....	310-5022	Black	5A	321.00

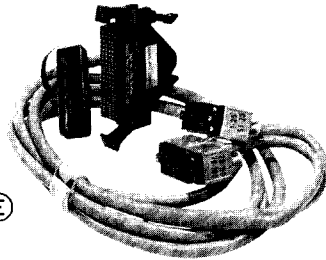
With 20-ft. 24-ga. Stub

S-711481	310-0042	.....	Base, less modules	234.50
.....	310-3042	Black	3A	357.50
.....	310-4042	Black	4A	417.00
.....	310-5042	Black	5A	313.50

(C) COOK C-311 CONNECTORS

A 10-pair unit for small applications. It can be ordered without test field, with a choice of test fields, and with the following choice of protective schemes:

3A—MESA carbon arrester
 4A—Heat coil and MESA arrester
 5A—Unprotected
 6A—Fail-safe gas arrester (350V DC)


(D)

(E)
TYPE 311 CONNECTORS, Cont'd

Without Test Field			
Ordering No.	Type	Type of Protection	Price Each
S-746027	311-0030	Base, less modules	\$ 6.65
.....	311-3030	3A	20.35
S-746029	311-4030	4A	27.15
.....	311-5030	5A	15.55
S-746031	311-6030	6A	59.15
With Wire-wrap Test Field			
.....	311-0050	Base, less modules	10.05
.....	311-3050	3A	23.75
.....	311-4050	4A	30.55
.....	311-5050	5A	18.95
.....	311-6050	6A	62.55
With Gold-plated Test Field			
S-746028	311-0070	Base, less modules	10.55
.....	311-3070	3A	24.25
S-746030	311-4070	4A	31.05
.....	311-5070	5A	19.45
S-746032	311-6070	6A	63.05
With Wire-wrap Jumper Field			
.....	311-0090	Base, less modules	10.05
.....	311-3090	3A	23.75
.....	311-4090	4A	30.55
.....	311-5090	5A	18.95
.....	311-6090	6A	62.55

(D) REPLACEMENT MODULES

For Cook C-303, C-310, C-353 and C-311 connectors. Protective schemes same as shown for C-311 on page H-32.

REPLACEMENT MODULES, Cont'd

Ordering No.	Type	Module Color	Type of Protection	Type of Module	Price Each
S-746017	303-0350	Black	3A	Connector	\$1.37
S-746018	303-0370	Red	3A	Connector	1.37
S-746020	303-0450	Black	4A	Connector	2.05
S-746021	303-0470	Red	4A	Connector	2.05
S-746022	303-0550	Black	5A	Connector	.89
S-746023	303-0570	Red	5A	Connector	.89
S-746024	303-0650	Black	6A	Connector	5.25
S-746025	303-0670	Red	6A	Connector	5.25
S-746283	303-1053	Green	..	Grounding (3A size)	.78
S-746026	303-1054	Green	..	Grounding (4A size)	.81
S-746284	303-1024	Green	..	Grounding (5A size)	.76
S-746055	303-1016	.....	..	Warning (For high-voltage testing)	2.10

ACCESSORIES

For Cook type C-303, C-310, C-353 and C-311 connectors.

(E) FRONT TAP SHOES

637210	Type 303-1004	50-pair	Ea.	\$324.50
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CARRYING CASES

580822	Type 303-1003	For front tap shoes	Ea.	54.20
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TEST POINT INSULATOR BUTTONS

S-582272	Type 303-1019	For use with front tap shoe	Per 100	10.10
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8" SINGLE-PAIR TEST CORDS AND PLUGS

S-580913	Type 303-1001		Ea.	5.50
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IN-OUT TEST CORDS

S-580914	Type 303-1012	4-cond. Plug both ends	Ea.	33.50
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VERSATILE IN-OUT TEST CORDS

S-580915	Type 303-1013	4-cond. Plug one end, other end can be equipped as desired.	Ea.	27.00
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"H" TEST CONNECTORS

580868	Type 303-1008	50-pair		94.50
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RED CIRCUIT DESIGNATION PINS

S-746053	Type 303-1020		Per 100	9.95
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RED TERMINAL CAPS

S-746054	Type 545-1137	For spec. circuits.	Per 100	2.07
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SHORT GROUND STRAPS

S-763514	Type 023-2465		Ea.	1.21
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LONG GROUND STRAPS

S-763107	Type 023-2466		Ea.	1.77
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MDF TEST JACK ASSEMBLIES

.....	Type 303-1026		Ea.	27.65
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VERTICAL GROUND BAR STRAPS

.....	Type 689-0955	Independent. For C-303, C-310, C-311 connectors	Ea.	2.35
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INTERCONNECTOR GROUND STRAPS

.....	Type 689-0951	Independent. For C-303, C-310, C-311 connectors	Ea.	1.70
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TERMINALS-PROTECTORS

ACCESSORIES FOR COOK CONNECTORS, Cont'd

CABLE PAIR MARKER STRIPS

S-746272 Type 303-1067 For C-303 only.....Ea. **\$1.29**

CABLE PAIR MARKER STRIPS

S-746273 Type 303-1068 For C-303, C-310,
C-311.....Ea. **1.29**

CONNECTOR MOUNTING BAR ADAPTERS

..... Type 323-1073 For C-303 only.....Ea. **2.49**

CONNECTOR MOUNTING BAR ADAPTERS

..... Type 310-1003 For C-310 only.....Ea. **2.49**

DOUBLE CONNECTOR MOUNTING BAR ADAPTERS

..... Type 310-1035 For C-310 only.....Ea. **4.99**

HORIZONTAL MOUNTING BRACKETS

..... Type 022-1023 For C-303 only.....Ea. **\$10.90**

WALL MOUNTING BRACKETS

..... Type 323-1063 For C-303 only.....Ea. **2.94**

WALL MOUNTING BRACKETS

..... Type 310-1063 For C-310 only.....Ea. **2.94**

C-311 MOUNTING BRACKET KITS

S-746083 Type 311-1010 For 19" relay rack...Ea. **4.26**

S-746034 Type 311-1011 For 23" relay rack...Ea. **5.56**

S-746035 Type 311-1012 For PBX grid.....Ea. **33.50**

..... Type 311-1013 For MDF.....Ea. **27.00**

S-746036 Type 311-1014 For fanning strip...Ea. **.98**

..... Type 311-1015 For wall mounting...Ea. **3.91**

EQUIPMENT FOR RELIABLE TYPE 700 CONNECTORS

STANDARD MODULES

Ordering No.	Type	Cap Color	Description	Price Each
(B) S-745479 (See pg. 35)	1104B	Black	With Carbon Arresters and Heat Coils.....	\$2.80
745480	1100GY	Grey	With Carbon Arresters only.....	1.68
.....	1101Y	Yellow	Switch Through only (no carbons or coils)...	.84
.....	1102GN	Green	Carbon Arresters only (no C.O.E. pins).....	1.96
S-745482	1105R	Red	Dummy Module—Warning Marker only..	1.40
.....	1103	No Cap	Permanent Grounding of Lines only.....	.26
.....	1106	No Cap	Jack-Through, manual switch.....	.33
746295	12141-B	Black	With carbon arresters, non-resettable heat coils and gold-plated contact pins.....	1.84

MODULES WITH GAS TUBE PROTECTION

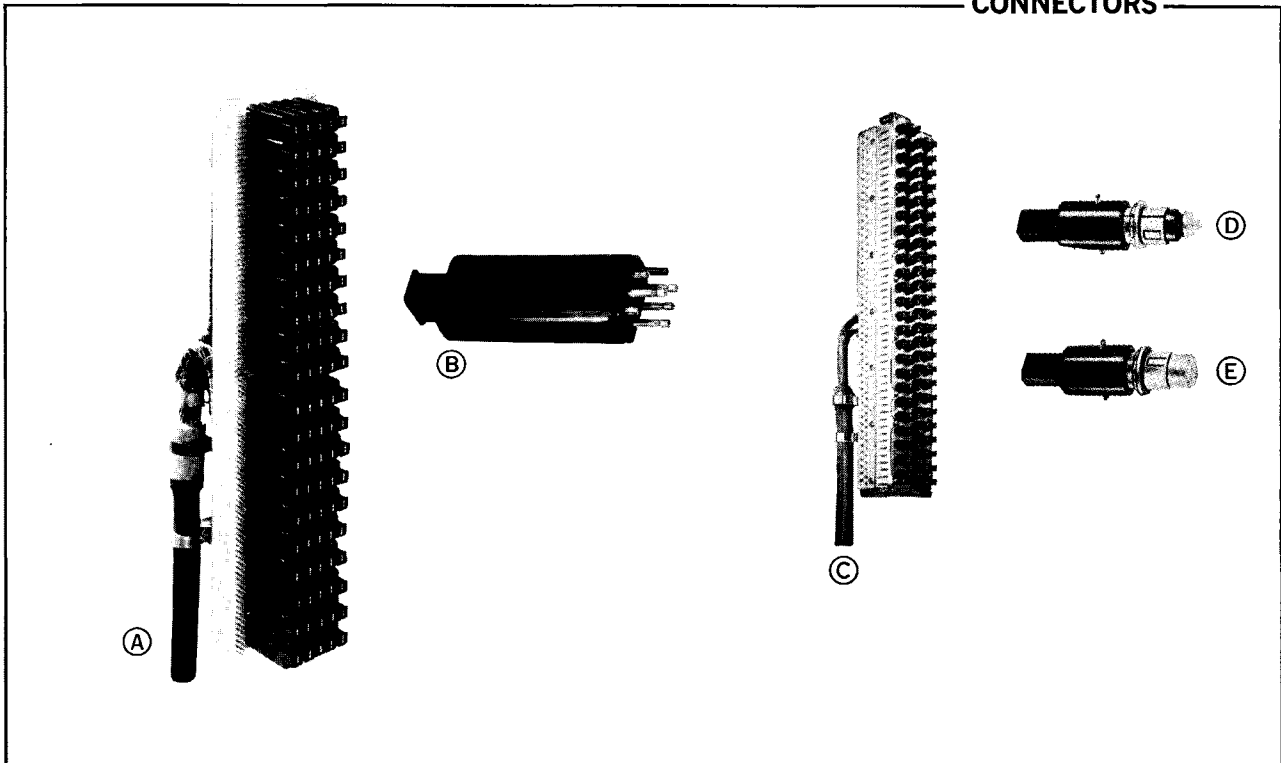
Ordering No.	DC Voltage	Description	Price on Application
1104B-G1	230	Black Housing Gas Tube Arresters and Heat Coil protection.....	
1104B-G2	350	Same as above.....	
1104B-G3	800	Same as above.....	
1100GY-G1	230	Gray Housing Gas Tube Arrester protection only.	
1100GY-G2	350	Same as above.....	
1100GY-G3	800	Same as above.....	

H-34

ACCESSORIES

Ordering No.	Type	Description	Price Each
S-762874	P-14580	Adhesive-backed Mylar Pair Designation Card, with black numerals on white background. Each fifth numeral, 05 through 100.....	\$1.12
S-762875	P-14000	Same as above, but with numbers 01 through 2301, at 100-numeral intervals.....	1.12
S-763483	P-14126	Same as above, but with numbers 00 through 2400, at 100-numeral intervals.....	1.12
S-763484	P-14127	Cable Designation Card, with red numerals on white background. Numerals 0 through 9, twelve of each. May be assembled in any order.....	1.12
580908	1130A	Four-Conductor Two-Way Test Cord. One end equipped with test plug that can be inserted in the protector position (protector removed) of a 700-Type Connector Base. Other end is equipped with a WECO 289-B connector plug (for No. 1 EAX). Twelve feet long..	26.87
580909	1130B	Same as above, but 18 feet long.....	33.60
580910	1131A	Cable Pair Trouble Cord. Permits pickup of cable pairs at the frame for testing. One end has 2 connectors for insertion in Type 700 connector module positions and one end is equipped with a WECO 289B plug (for No. 1 EAX). Twelve feet long.....	40.31
580911	1131B	Same as above, but 18 feet long.....	47.03
S-793430	3743	Alarm Lamp.....	2.01
S-796393	3742	Alarm Lamp Socket.....	3.07
S-763511	1104RGT	Red Terminal Connector Guard.....	.84

CONNECTORS



(A) RELIABLE TYPE 700 CONNECTORS

Prices shown are for 20-foot stub; longer lengths quoted on request. Add suffix -A to ordering number if stub to be Alvyn type. Price for Alvyn stub on application. Connector mounting bars on page H-26.

Ordering No.	Type	Pair	Module Type	Stub Ga.	Price Each
.....	R722-50	50	1104B	22	\$212.77
.....	R722-100	100	1104B	22	408.73
.....	722-100AU (with gold cinch pins)	100	1104B	22	*
.....	R723-50	50	1100GY	22	166.85
.....	R723-100	100	1100GY	22	303.47
711603	R7223-100A	100	12141B	22	377.00
.....	R724-50	50	1104B	24	209.40
.....	R724-100	100	1104B	24	406.50
.....	724-100AU (with gold cinch pins)	100	1104B	24	*
.....	R725-50	50	1100GY	24	163.49
.....	R725-100	100	1100GY	24	301.23
.....	R7243-100A	100	12141B	24	374.77

STUBLESS TYPE

.....	720-100	100	1104B	..	\$339.31
.....	720-100AU (with gold cinch pins)	100	1104B	..	*
.....	721-100	100	1100GY	..	234.04
.....	726-100	100	1101	..	146.33
.....	720-50	50	1104B	..	172.46
.....	721-50	50	1100GY	..	119.82
.....	726-50	50	1101	..	75.40

STUBLESS TYPE, Cont'd

Ordering No.	Type	Pair	Module Type	Stub Ga.	Price Each
711602	R7203-100	100	12141B	..	\$288.19

UNPROTECTED TYPE

.....	702-50	50	.....	22	100.17
.....	702-100	100	.....	22	171.11
.....	702-100AU (with gold cinch pins)	100	.....	22	*
.....	704-50	50	.....	24	93.79
.....	704-100	100	.....	24	164.05
.....	704-100AU (with gold cinch pins)	100	.....	24	*

UNPROTECTED, STUBLESS

.....	703-50	50	.....	..	45.91
.....	703-100	100	.....	..	88.47

WITH JACK-THROUGH MODULES

.....	728-50	50	1106	22	102.77
.....	728-100	100	1106	22	188.78
.....	729-50	50	1106	24	101.65
.....	729-100	100	1106	24	186.54

WITH JACK-THROUGH MODULES, STUBLESS

.....	727-50	50	1106	..	66.34
.....	727-100	100	1106	..	121.76

*Price on Application

H-35

TERMINALS-PROTECTORS

© RELIABLE TYPE R-300 CONNECTORS

Shown on page H-35. For inside plant equipment, and PBX or PABX installations.

Any line can be disconnected from switching equipment by turning protector cap counter-clockwise 90°. This leaves the line still protected by the arrester.

For connector mounting bars see page H-26.

EXTRA-LENGTH STUB

No. of
Pairs

51
51
101
101

Gauge

22
24
22
24

Price on
Application

CONNECTORS WITH COLOR CODED STUB

Ordering No.	Unit	STUB		Price Each
		Lgth.	Ga.	
R-322- 50 Pr.	3004	20'	22	\$194.51
R-322-100 Pr.	3004	20'	22	358.34
R-323- 50 Pr.	3000	20'	22	159.13
R-323-100 Pr.	3000	20'	22	274.68
R-324- 50 Pr.	3004	20'	24	192.11
R-324-100 Pr.	3004	20'	24	355.96
R-325- 50 Pr.	3000	20'	24	156.78
R-325-100 Pr.	3000	20'	24	272.34

STUBLESS CONNECTORS

Ordering No.	Unit	Price Each
R-320- 50 Pr.	3004	\$142.61
R-321- 50 Pr.	3000	101.34
R-320- 20 Pr.	3004	63.66
R-321- 20 Pr.	3000	49.50
R-320-100 Pr.	3004	285.28
R-321-100 Pr.	3000	201.56

PROTECTOR UNITS

Ordering No.	Type	Description	Std. Pkg.	Price Each
① 714241	3004	Protector with arresters, R-76A heat coil and black cap.	10	\$.72
② 714240	3000	Protector with arresters, dummy heat coil and gray cap.	10	.39
.....	3001	Protector with metallic slug as substitute for arrester, no heat coil, no dummy heat coil, with green cap.	10	.29
.....	3002	Protector with insulator slug as substitute for arresters, dummy heat coil and yellow cap. .	10	.34

REPLACEMENT PARTS

Ordering No.	Type	Description	Price Each
S-790650	P-8536	WE76A-R300 Heat Coil	\$.46
790653	P-8546	Dummy R300 Heat Coil	.05
790920	P-8523	Protector Cap, Black	.46
790924	P-8524	Protector Cap, Yellow	.71
790922	P-8525	Protector Cap, Green	.71
790923	P-8526	Protector Cap, Red	.71
790921	P-8527	Protector Cap, Gray	.71
792975	P-8532	Ground Carbon for 3000/3004	per 100 2.78
792976	P-9473	Ground Slug for 3000/3004	per 100 6.56
793119	P-9545	Insulator Slug for 3000/3004	per 100 7.24