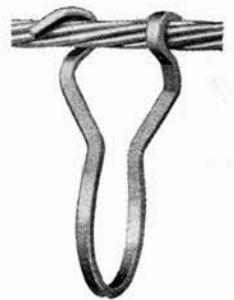


STROMBERG-CARLSON

Cable and Cable Supplies



High quality telephone cable; clay and fibre conduit; cable spinners and hangers; solder melting pots and blow torches.

CONTENTS
SECTION P

CABLE AND CABLE SUPPLIES

	Page
Lead Insulated Telephone Cable	3p
Plastic Insulated Telephone Cable	4p
Telecable Exchange Area Cable	5p
Inside Wiring Cable	6p
Rural Distribution Wire	6p
Wirelink and Wirevise	7p
Splicing Kits and Plastic Sleeves	7p
Linen Test Boards	8p
Transite Conduit	8p
Clay Conduit and Conduit Supplies	9p
Reel Jacks and Lifts	10p
Manhole Supplies	11p
Cable Cars	12p
Cable Spinners	13p
Cable Lashing Wire	14p
Aerial Cable Supplies	15p
Cable Hangers and Clamps	16p
Cable Grips	17p
Cotton and Lead Sleeves, Wax and Candles	18p
Paraffin Pots and Pastes	19p
Soldering Supplies	20p
Solder	21p
Blow Torches	22p
Blow Torches and Melting Pots	24p
Prest-O-Lite Outfits	25p

KENNECOTT PAPER INSULATED LEAD ENCASED TELEPHONE CABLE



Kennecott telephone cable is made with various electrostatic capacitances and with conductors of Nos. 19, 22 and 24 A.W.G. Each wire is insulated with one or more wraps of paper.

After insulation of the conductors they are twisted together to form pairs, each wire of the pair being wrapped with paper of a different color for tracing purposes.

The twisted pairs are cabled together in layers, each layer being one pair thick. The completed cable core is taped over with paper.

The cable is then treated under controlled high temperature and vacuum to remove moisture. It is then sheathed with lead containing one per cent antimony.

INSULATION RESISTANCE—The effect of insulation resistance under actual working conditions is not definitely known owing to the high frequencies employed. The usual practice is to specify a minimum of 500 megohm miles, which is considered sufficiently high to prevent appreciable leakage.

CONDUCTORS

Each conductor shall be solid wire of commercially pure annealed copper, smoothly drawn, cylindrical, uniform in quality and resistance and free from scale and other defects.

TRANSMISSION LOSS

In Dbs. per loop mile for various types of telephone cables is as follows:

Wire Size	Insulation	Mutual Capacitance Mfds. per mile	Transmission loss dbs. per mile at		
			800 cycles	900 cycles	1000 cycles
24	Single Paper	.09	2.16	2.29	2.41
22	Double Paper	.08	1.63	1.72	1.82
22	Single Paper	.09	1.72	1.82	1.92
19	Double Paper	.08	1.15	1.22	1.28
19	Single Paper	.09	1.22	1.29	1.36

No. 24 S.P.W. Lead Covered Cable, .09 M.C.

No. of Pairs	Stock No.	Lead Thk.	O.D.	Net Wt. M. Ft.	Reel Length	Approx. Ship. Wt. per M. Ft.
6	(890323)	.060	.31	261	3,500	305
11	(890324)	.061	.35	320	3,500	364
16	(890325)	.062	.39	380	3,500	441
26	(890326)	.063	.47	487	4,500	577
51	(890327)	.066	.59	710	4,200	818
76	(890328)	.069	.70	923	3,000	1,074
101	(890329)	.071	.78	1,110	3,000	1,377
152	(890330)	.074	.92	1,453	2,800	1,728
202	(890331)	.077	1.04	1,792	2,200	2,142
303	(890332)	.082	1.24	2,423	1,600	2,904
404	(890333)	.086	1.41	3,019	1,400	3,628
505	(890334)	.089	1.57	3,598	1,300	4,253
606	(890335)	.093	1.71	4,188	1,100	4,963

No. 22 S.P.W. Lead Covered Cable, .09 M.C.

No. of Pairs	Stock No.	Lead Thk.	O.D.	Net Wt. M. Ft.	Reel Length	Approx. Ship. Wt. per M. Ft.
6	(890352)	.061	.37	341	3,500	402
11	(890353)	.063	.44	437	3,500	498
16	(890354)	.064	.47	490	3,500	551
26	(890355)	.066	.56	646	3,500	762
51	(890356)	.070	.73	973	3,000	1,124
76	(890357)	.073	.86	1,262	2,500	1,579
101	(890358)	.076	.97	1,549	2,500	1,857
152	(890359)	.080	1.15	2,057	1,600	2,538
202	(890360)	.084	1.30	2,557	1,600	3,089
253	(890361)	.087	1.45	3,044	1,500	3,612
303	(890362)	.090	1.57	3,496	1,400	4,105
404	(890363)	.095	1.79	4,393	1,200	5,308
505	(890364)	.099	1.99	5,262	1,000	6,360
606	(890365)	.104	2.17	6,156	900	7,509

No. 22 D.P.W. Lead Covered Cable, .08 M.C.

No. of Pairs	Stock No.	Lead Thk.	O.D.	Net Wt. M. Ft.	Reel Length	Approx. Ship. Wt. per M. Ft.
6	(890338)	.061	.37	336	3,500	397
11	(890339)	.063	.46	455	3,500	516
16	(890340)	.065	.52	556	3,500	672
26	(890341)	.067	.62	731	3,500	861
51	(890342)	.072	.82	1,123	3,000	1,379
76	(890343)	.076	.97	1,470	2,500	1,778
101	(890344)	.079	1.11	1,804	2,500	2,145
152	(890345)	.084	1.32	2,413	1,600	2,946
202	(890346)	.088	1.50	2,982	1,600	3,515
253	(890347)	.092	1.66	3,564	1,500	4,296
303	(890348)	.096	1.81	4,132	1,400	5,002
404	(890349)	.102	2.06	5,193	1,200	6,208
505	(890350)	.108	2.30	6,268	1,000	7,486
606	(890351)	.113	2.50	7,289	900	8,642

No. 19 S.P.W. Lead Covered Cable, .09 M.C.

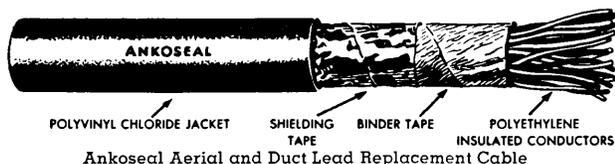
No. of Pairs	Stock No.	Lead Thk.	O.D.	Net Wt. M. Ft.	Reel Length	Approx. Ship. Wt. per M. Ft.
6	(890387)	.063	.43	425	3,500	486
11	(890388)	.065	.52	576	3,500	692
16	(890389)	.067	.59	714	3,500	844
26	(890390)	.070	.72	967	3,000	1,118
51	(890391)	.075	.97	1,513	2,500	1,821
76	(890392)	.080	1.13	2,032	1,800	2,505
101	(890393)	.084	1.29	2,530	1,600	3,063
202	(890394)	.095	1.76	4,347	1,200	5,265
303	(890395)	.104	2.19	6,170	900	7,519

No. 19 D. P. W. Lead Covered Cable, .08 M.C.

No. of Pairs	Stock No.	Lead Thk.	O.D.	Net Wt. M. Ft.	Reel Length	Approx. Ship. Wt. per M. Ft.
6	(890377)	.063	.47	469	3,500	530
11	(890378)	.066	.57	646	3,500	762
16	(890379)	.068	.66	800	2,500	963
26	(890380)	.071	.80	1,089	2,500	1,271
51	(890381)	.078	1.07	1,734	1,500	2,037
76	(890382)	.083	1.28	2,328	1,500	2,896
101	(890383)	.087	1.44	2,875	1,500	3,443
202	(890384)	.100	1.98	4,974	1,100	6,079
303	(890385)	.110	2.40	6,974	1,000	8,300
404	(890386)	.119	2.75	8,924	700	10,821

Revised 1-1-57

ANSONIA ANKOSEAL PLASTIC TELEPHONE CABLE



Anko Seal Aerial and Duct Lead Replacement Cable

Anko Seal Telephone Cables are manufactured with the use of thermoplastic insulating materials of high dielectric strength, low moisture absorption and good transmission qualities. They may be used in direct substitution for the textile and paper insulated cables now in service. These cables also have the advantage of a saving in weight over lead-covered cables of from 1/3 to 1/2 in the more popular sizes.

The protective covering over the cables is also thermoplastic material which has been compounded to provide a high degree of mechanical strength, as well as low moisture absorption and extremely long life. In addition the aerial and duct cables have a grounding shield for protection from electrical storms or other electro-static interference, and the direct burial cables have double flat 3S alloy aluminum tapes between the inner and outer jackets for mechanical protection. Both of these cables are recommended as direct replacements for Western Electric CSA and CNB cables.

Specifications for Types 775P and 775AP

- Conductors—Soft bare copper wire per ASTM B-3
- Conductor Insulation—Stabilized Polyethylene
- Shield Tape—Type 3S Aluminum, .004" thick
- Jackets—Anko Seal Plasticized Polyvinyl Chloride
- Operating Range from -40° to +80° C.
- A armor Tape—Type 3S Aluminum, .013" thick
- AC Test Voltage—1000 Volts
- Insulation Resistance—500 megohm miles at 60° F—any conductor to all other conductors and shield
- Mutual Capacity in Mfd/Mile—24 gauge .070, 22 gauge .075, 19 gauge .085
- Db/Mile (1000 cps)—24 gauge 2.11, 22 gauge 1.71, 19 gauge 1.26

Multiple Pair Self-Supporting Drop Cable Size 19 Medium Hard Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
6	5	.505	5,000'	168

Aerial and Duct Service Type 775P

Size 24 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.440	5,000	102
16	15	.520	5,000	137
26	25	.670	5,000	214
51	50	.905	3,000	393
76	75	1.060	2,500	540
101	100	1.205	2,000	710
152	150	1.500	1,000	925
202	200	1.670	1,000	1,298
303	300	2.100	1,000	1,861
404	400	2.350	1,000	2,386

Size 22 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.460	5,000	116
16	15	.540	5,000	155
26	25	.700	5,000	242
51	50	.945	3,000	448
76	75	1.110	2,000	621
101	100	1.305	3,000	828
152	150	1.600	1,000	1,100
202	200	1.830	1,000	1,520
303	300	2.210	1,000	2,175
404	400	2.600	1,000	2,886

Size 19 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.530	5,000	170
16	15	.700	5,000	256
26	25	.810	5,000	375
51	50	1.090	2,500	700
76	75	1.300	3,000	1,024
101	100	1.530	3,000	1,370
152	150	1.850	1,000	1,725
202	200	2.250	1,000	2,520
303	300	2.630	1,000	3,434
404	400	3.100	1,000	4,918

Direct Burial Service Type 775AP

Size 24 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.595	4,000	213
16	15	.675	3,000	262
26	25	.775	3,000	338
51	50	1.060	3,000	575
76	75	1.275	2,500	804
101	100	1.400	2,000	981
152	150	1.755	1,000	1,295
202	200	1.920	1,000	1,875
303	300	2.360	1,000	2,531
404	400	2.410	1,000	3,119

Size 22 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.615	4,000	217
16	15	.695	3,000	285
26	25	.805	5,000	375
51	50	1.100	5,000	620
76	75	1.325	4,000	905
101	100	1.500	3,000	1,111
152	150	1.855	1,000	1,420
202	200	2.040	1,000	2,121
303	300	2.495	1,000	2,921
404	400	2.860	1,000	3,603

Size 19 Copper

Total No. Pairs	Quart'd. No. Pairs	Approx. O.D.	Nominal Reel Length	Approx. Net Wgt. Lbs./M. Ft.
11	11	.685	3,000	285
16	15	.775	4,000	376
26	25	.905	4,000	507
51	50	1.245	4,000	892
76	75	1.495	3,000	1,310
101	100	1.705	2,000	1,657
152	150	2.105	1,000	2,415
202	200	2.525	1,000	3,242
303	300	2.890	1,000	4,255
404	400	3.370	1,000	5,820

WHITNEY BLAKE TELECABLE® (OUTSIDE)



For Aerial and Duct Use

Whitney Blake Telecable is a totally new design using only copper, polyethylene jacket and an aluminum shield.

Polyethylene is used for conductor insulation because of its low capacitance, high dielectric strength and generally excellent stability. Black polyethylene, properly compounded to withstand effects of outdoor weathering, is used for the jacket because it combines the properties of flexibility at low temperatures and long life expectancy, to a greater degree than any other commercially used thermoplastic.

This cable meets all the electrical values and life expectancy of paper insulated, lead sheathed cables and in addition is simpler and less costly to install. The tough, flexible black polyethylene sheath is unaffected by the stresses imposed during installation and operates efficiently under extremes of winter and summer weather. It is not subject to environmental cracking.

Whitney Blake Telecable is REA approved.

Construction

Each conductor is bare annealed copper and is insulated with a wall of polyethylene designed to assure compliance with capacitance requirements and to provide high dielectric strength, even if the sheath becomes damaged.

Up to and including 76 Pair Cable, one pair of each cable has one red leg and one orange leg for use as a tracer pair. All other pairs have one red leg and one natural leg.

101 Pair cable has a center core of 50 pairs, 49 pairs with one leg red and one leg natural and one tracer pair with one leg red and one leg orange. Around this core are cabled 51 pairs, 50 pairs with one leg blue, and one leg natural and one tracer pair with one leg red and one leg orange.

152 Pair cable has a center core of 52 pairs, 51 pairs with one leg red and one leg natural and one tracer pair with one leg red and one leg orange. Around this core are cabled 62 pairs, 61 pairs with one leg blue and one leg natural, and one tracer pair with one leg red and one leg orange. The outside layer has 38 pairs, 37 pairs with one leg red and one leg natural and one tracer pair with one leg red and one leg orange.

202 Pair cable has a center core of 52 pairs, 51 pairs with one leg red and one leg natural and one tracer pair with one leg red and one leg orange. Around this core are cabled 62 pairs, 61 pairs with one leg blue and one leg natural, and one tracer pair with one leg red and one leg orange. The next layer has 41 pairs, 40 pairs with one leg red and one leg natural and one tracer pair with one leg red and one leg orange. The outside layer has 47 pairs, 46 pairs with one leg blue, one leg natural and one tracer pair with one leg red, one leg orange.

303 Pair cable is composed of 50 and 51 pair units, each having a red-orange pair in the outer layer. Five units — 3 with blue-white pairs and 2 with red-natural pairs are cabled around one unit with red-natural pairs. Each unit is provided with an

open spiral multiple end textile binder.

404 Pair cable is composed of 50 and 51 pair units, each having a red-orange pair in the outer layer. Six units — 3 with blue-natural pairs and 3 with red-natural pairs, alternated — are cabled around two units — 1 with red-natural pairs and 1 with blue-natural pairs. Each unit is provided with an open spiral, multiplex end textile binder.

To minimize crosstalk, the length of lay is varied for adjacent pairs. The core is wrapped spirally with non-hygroscopic tape for further protection and then covered with an aluminum shield. This shield, when grounded, protects the cable from damage by lightning, prevents low frequency induction and consequent noisy circuits. The jacket is black weather-resistant polyethylene, assuring long service life.

Exchange Area Cable for Aerial and Duct Use

Cat. No.	No. Pairs Total	No. Pairs Quart'd.	Nom. Wall Jacket Inches	Nom. O.D. Inches	Approx. Net Wt./M ft. Pounds	Approx. Gross Wt./M ft. Pounds	Feet Per Reel
No. 24 AWG Conductor							
1201	11	11	.050	.395	70	87	5000
1202	16	15	.050	.445	91	109	5000
1203	26	25	.050	.530	133	153	5000
1204	51	50	.060	.705	244	284	2500
1205	76	75	.060	.815	342	393	2500
1206	101	100	.070	.945	450	515	2500
1207	152	150	.070	1.110	645	748	2500
1208	202	200	.080	1.295	855	1,117	1000
1209	303	300	.090	1.650	1,248	1,548	1000
1210	404	400	.100	1.910	1,405	2,070	1000

No. 22 AWG Conductor							
1231	11	11	.050	.450	97	113	5000
1232	16	15	.050	.515	131	151	5000
1233	26	25	.060	.635	202	235	5000
1234	51	50	.060	.830	364	399	2500
1235	76	75	.070	.995	530	645	2500
1236	101	100	.070	1.125	685	801	2500
1237	152	150	.080	1.365	1,005	1,237	2500
1238	202	200	.090	1.565	1,312	1,662	1000
1239	303	300	.110	2.020	2,049	2,714	1000
1240	404	400	.120	2.270	2,885	3,550	1000

No. 19 AWG Conductor							
1261	11	11	.050	.575	161	186	5000
1262	16	15	.060	.675	230	266	5000
1263	26	25	.060	.810	351	407	5000
1264	51	50	.070	1.095	657	751	2500
1265	76	75	.080	1.300	985	1,109	2500
1266	101	100	.090	1.520	1,307	1,462	2500
1267	152	150	.100	1.820	1,927	2,325	1000
1268	202	200	.110	2.070	2,375	2,776	1000

Shielded Self-Supporting Multiple Drop Cable

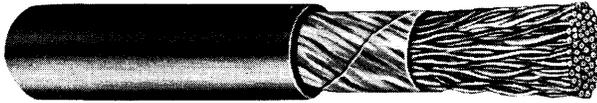
This cable is similar in construction to Aerial and Duct Cable except the No. 19 A.W.G. conductors are medium hard drawn copper. The cable can be used for multiple drops to small businesses and apartment buildings and also for pole runs.

Cat. No.	No. Pairs Total	No. Pairs Quart'd.	Nom. Wall Jacket Inches	Nom. O.D. Inches	Approx. Net Wt./M ft. Pounds	Approx. Gross Wt./M ft. Pounds	Feet Per Reel
1281	6	6	.050	.470	110	135	5000

Other sizes and pairs available on special order. Put-up: Non-returnable wooden reels.

Revised 1-1-57

WHITNEY BLAKE MULTI-CONDUCTOR PAIRED (INSIDE) WIRING TELECABLE®



Paired Inside Wiring Telecable

Semi-Rigid Plastite® Insulation Brown or Ivory Plastite Jacket

Lightweight for easy installation; water resistant for use in damp ducts.

Semi-rigid Plastite insulation has high resistance to crushing and has reduced cold flow. The latter is especially important when cable is liable to be bent sharply, as when installed in conduit.

This cable has superior insulation resistance and is unaffected by humidity. Conductors are easy to terminate—just strip the insulation and solder. The insulation is permanently colored for lasting polarity identification. Semi-rigid Plastite has compression strength far exceeding that of regular polyvinyl chloride compounds. The polyvinyl chloride jacket is tough, flame resistant and abrasion resistant. The long service life of this cable means lower maintenance costs.

Construction

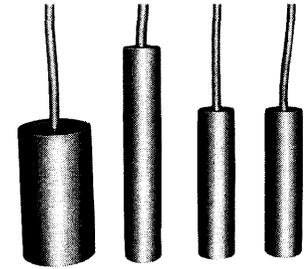
Solid bare soft copper conductors in No. 24 AWG and No. 22 AWG insulated with tough semi-rigid polyvinyl chloride to a nominal wall of .014". Color coded for polarity and pair identification. Pairs are twisted with systematically varied lays to minimize crosstalk. Pairs are cabled without fillers into a round core. Free-stripping jacket is brown or ivory polyvinyl chloride with a nominal wall of .040" for all except 51 and 76 pair which have .050" nominal wall. Steel rip wire under jacket for easy removal of plastic covering. Specify color when ordering.

Cat. No.	No. of Pairs	Approx. O.D.	Approx. Net Wt./M Ft. Pounds	Approx Gross Wt./M Ft. Pounds
No. 24 AWG Conductors				
1001	6	.305"	50	59
1002	11	.370"	76	93
1003	12	.380"	81	98
1004	16	.430"	105	122
1005	26	.520"	154	183
1006	51	.710"	299	358
1007	76	.840"	414	482
No. 22 AWG Conductors				
1026	6	.325"	61	70
1027	11	.400"	99	116
1028	12	.410"	106	123
1029	16	.470"	136	156
1030	26	.570"	208	237
1031	51	.775"	414	464

Furnished 2500 ft. per non-returnable reel.

CEECO LOADING COILS

These voice frequency loading coils are used primarily for loading exchange and toll entrance cables. The coils are potted in either lead sleeves or steel cases or furnished with leads for splicing in sleeves made on the job.



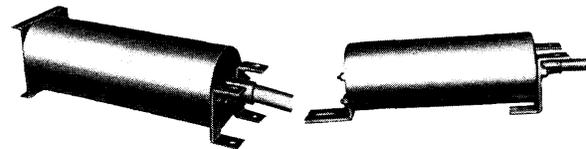
The voice frequency loading coils, type 632 and 638 are designed for use on two wire telephone circuits in non-quadded paper insulated or plastic cables. Coils for quadded inter-office trunks and toll entrance cables are type MF10, MF11, 641, 642.

Electrical Characteristics

	Catalog No.			
	632	638	642	641
Nominal Inductance (MH).....	88	44	88	44
Tolerance plus (MH).....	1.5	1.0	1.5	1.0
Tolerance minus (MH).....	1.0	0.6	1.0	0.6
DC resistance 70°f maximum per winding (ohm).....	4.2	2.2	2.8	1.6
Maximum DC resistance unbalance (ohm).....	0.20	0.15	0.20	0.15
Q minimum 1000 cycle.....	55	50	65	65
Minimum insulation resistance (meg ohm).....	10,000	10,000	10,000	10,000
Minimum dielectric strength between windings (DC volts)..	1500	1500	1500	1500
Maximum crosstalk between adjacent coils (db).....	86	86	86	86

The MF10 and MF11 phantom groups shall have the characteristics of the 641 and 642 coils. The inductance of the phantom coils is 25 and 50 MH respectively.

CEECO CASES



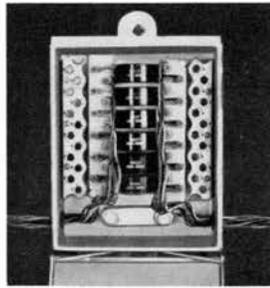
Lead sleeve cases are supplied for potting up to 76 coils and are coded Type 124. Aerial steel cases are supplied to house up to 460 coils and are coded Type 125. Underground steel cases also house up to 460 coils and are coded Type 225.

Dimensions and Weights

Loading Coil Case Type	Contains Coils Type 632 or 638	Approx. Case Size	Shipping Weight
Lead case for aerial use			
124A	4 to 15 coils	2" Dia. up to 13" lg	19 to 25 lbs
124B	16 to 24 coils	4" Dia. up to 9" lg	25 to 45 lbs
124C	25 to 51 coils	4" Dia. up to 15" lg	45 to 70 lbs
124D	52 to 76 coils	5" Dia. up to 15" lg	70 to 90 lbs
Steel case for aerial use			
125A	75 to 101 coils	6 5/8" Dia. 18" lg	90 to 110 lbs
125B	102 to 152 coils	6 5/8" Dia. 24" lg	110 to 160 lbs
125C	153 to 205 coils	9" Dia. 18" lg	160 to 210 lbs
125D	206 to 303 coils	9" Dia. 34" lg	210 to 300 lbs
125E	304 to 460 coils	10 3/4" Dia. 30" lg	300 to 450 lbs
Steel case for Underground			
225A	75 to 101 coils	6 5/8" Dia. 18" lg	90 to 110 lbs
225B	102 to 152 coils	6 5/8" Dia. 24" lg	110 to 160 lbs
225C	153 to 205 coils	9" Dia. 18" lg	160 to 210 lbs
225D	206 to 303 coils	9" Dia. 34" lg	210 to 300 lbs
225E	304 to 460 coils	10 3/4" Dia. 30" lg	300 to 450 lbs

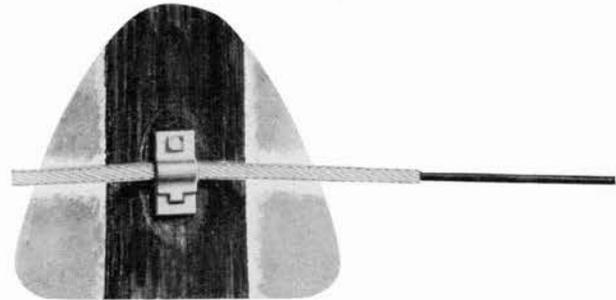
CEECO TYPE 177 TERMINAL LOADING CASE

The type 177 terminal loading case is a combination box and mounting for loading coils to be used with the recently developed self-supporting rural distribution cable. The case consists of an aluminum casting with a hinged cover of pressed aluminum. Terminal blocks and loading coils are provided in various combinations.



Cat. No.	Stock No.	Description
177A	(896079)	2 sets of 6 pair protected terminals and 6 type 632 (88MH) coils mounted in individual plastic housing.
177B	(896080)	Same as 177A except with 6 type 638 (44MH) coils.
177C	(896081)	Same as 177A except with non-protected terminals.
177D	(896082)	Same as 177B except with non-protected terminals.
177E	(896083)	With 2 six-pair protected blocks, no loading coils.
177F	(896084)	With 1 six-pair protected block, no loading coils.
177G	(896085)	With 2 six-pair non-protected blocks, no loading coils.
177H	(896086)	With 1 six-pair non-protected block, no loading coils.

PREFORMED LINE GUARDS FOR SELF-SUPPORTING PLASTIC CABLE



Essentially for protecting your cable from tie or clamp pressures. Merely wrap line guards around cable at tangent support points. No tools required. Line Guards are accurately formed to fit snugly without using clamps or clips to hold ends secure.

Catalog No.	Stock No.	Cable Construction	Shipping Wt. Lbs./100 Line Guards
18 AMGT-380	(895904)	6 pair No. 20 AWG	19
20 AMGT-450	(895905)	6 pair No. 19 AWG	30
22 AMGT-560	(895906)	11 pair No. 19 AWG	45
24 AMGT-680	(895907)	16 pair No. 19 AWG	61
28 AMGT-824	(895908)	26 pair No. 19 AWG	100

PREFORMED LASHING RODS

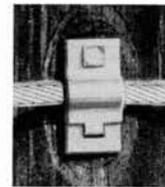


Preformed Lashing Rods are produced of spring temper material and are applied without the use of tools or spinners. They are self-adhering and are removable and reusable for reapplication. Ideal for lashing initial installations, cables to existing messengers, adding cables and relashing where old lashing wire has had to be replaced. Lashing rods listed below are of galvanized steel. Copperweld, stainless steel and bronze available.

Catalog No.	Stock No.	Conductor & Messenger Total Outside Diameter	
		Min. O.D.	Max. O.D.
LRGS-D	(895889)	.400	.440
LRGS-E	(895890)	.440	.490
LRGS-F	(895891)	.490	.540
LRGS-G	(895892)	.540	.600
LRGS-H	(895893)	.600	.670
LRGS-I	(895894)	.670	.750
LRGS-J	(895895)	.750	.840
LRGS-K	(895896)	.840	.940
LRGS-L	(895897)	.940	1.050
LRGS-M	(895898)	1.050	1.170
LRGS-N	(895899)	1.170	1.310
LRGS-O	(895900)	1.310	1.460
LRGS-P	(895901)	1.460	1.630
LRGS-Q	(895902)	1.630	1.820
LRGS-R	(895903)	1.820	2.040

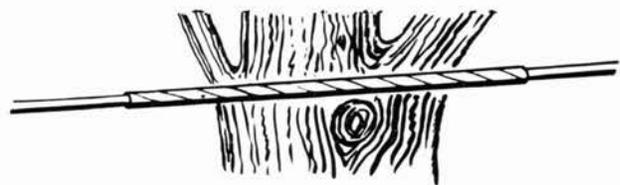
Other sizes available on request.

TANGENT SUPPORT CLAMP



Especially designed as a tangent supporting device, there is a clamp available for each self-supporting cable with Line Guards applied—eliminates tying. Tongue and slot design permits bottom and top half of clamp to be placed around the cable, holding the assembly in place while single bolt or lag screw is applied. Stock No. (895909).

PLASTIC LINE GUARDS

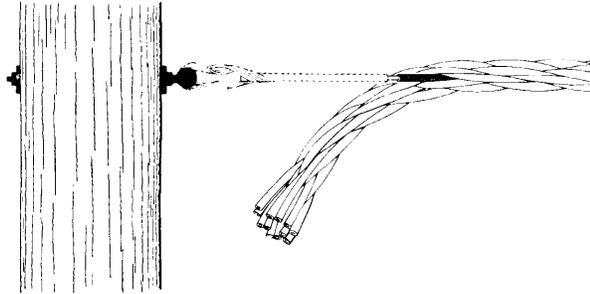


Ideal for protecting covered cables or conductors from abrasion by trees or other objects. Fit securely like metal Line Guards—are as easily installed. Standard stock sizes come in 6-ft. lengths. 3-ft., 9-ft. and other lengths are available on order.

Inside Diam.	Stock No.
9/32"	(895910)
3/8"	(895911)
1/2"	(895912)
5/8"	(895913)
3/4"	(895914)
1"	(895915)
1 1/4"	(895916)

Revised 1-1-57

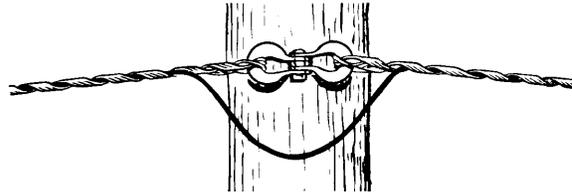
PREFORMED DEAD-ENDS FOR TELEPHONE LINE WIRES AND RURAL DISTRIBUTION CABLE MESSENGER



These Dead-Ends never relax their grip—will not slip even under sudden impact and they hold the full-rated strength of the telephone wires. Dead-Ends are quickly and easily installed by hand—no tools needed. They eliminate looping of the wire. Simply installed by inserting one leg of the Dead-End around an insulator or through a thimble eye and then wrapping both legs around the wire. Can be used as a false dead-end without cutting the wire so the messenger or conductor may continue right through. Thus, splicing is eliminated at dead-end points. Dead-Ends can be easily removed and reused. Also available in Copperweld and Stainless Steel.

Galvanized Steel			
Catalog No.	Stock No.	Wire Size	Ship. Wt. Lbs./100
11 GDE—083	(895917)	14 BWG	6
12 GDE—109	(895918)	12 BWG	9
13 GDE—134	(895919)	10 BWG	15

PREFORMED DEAD-ENDS FOR SELF-SUPPORTING PLASTIC CABLE



The standard Dead-End is designed to hold the full-rated strength of the Self-Supported Cable, protecting the outer covering and internal members even under extreme temperature variations. They are easily applied by hand, slip one leg through a standard hardware thimble clevis and wrap the legs around the cable. Available for 6, 11, 16 and 26 pair 19 AWG Self-Supporting Cable. Special short-length Dead-Ends for applications that do not require holding the full-rated strength are available on order. Double clevis assembly per illustration (Hubbard No. 666) available on order.

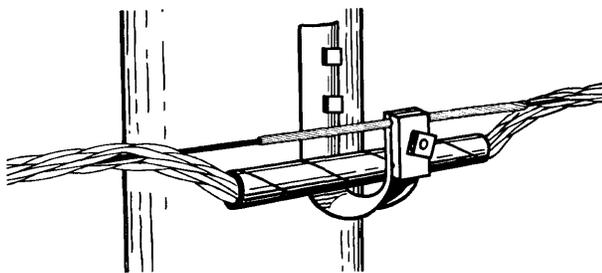
Ansonia Ankoseal Type 775-P-SS (Left Hand Lay)

Catalog No.	Stock No.	Construction	Shipping Wt. Lbs./100 Dead-Ends
ANKDE—450	(895884)	6 pair No. 19 AWG	51
ANKDE—530	(895885)	11 pair No. 19 AWG	70
ANKDE—660	(895886)	16 pair No. 19 AWG	102
ANKDE—750	(895887)	26 pair No. 19 AWG	172

Whitney-Blake Co. (Right Hand Lay)

WBDE—470	(895888)	6 pair No. 19 AWG	36
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PREFORMED ARMOR RODS FOR RURAL DISTRIBUTION MESSENGER OR FOR INSULATED TELEPHONE LINE WIRE



Protect the plastic jacket of rural distribution or insulated wire messenger from clamp pressure and abrasion. Armor Rods are an inexpensive method of preventing damage at a later date. They are easily applied, and can be reused.

6-Pair Rural "B" Construction

Catalog No.	Stock No.	Conductor	Shipping Wt. Lbs./100 sets
8 AAR—155	(895926)	.109 G. S. Covered	4

Insulated Telephone Line Wire

12 AAR—155	(895927)	.109 G. S. Covered	6
24 AAR—155	(895928)	.109 G. S. Covered	12
12 AAR—139	(895929)	.109 G. S. Covered	6
24 AAR—139	(892930)	.109 G. S. Covered	12
12 AAR—110	(895931)	.080 C. W. Covered	4
24 AAR—110	(895932)	.080 C. W. Covered	8

PLASTIC CABLE GUARD (illustrated above)

Protect cable from abrasion where it runs against suspension clamps by using plastic cable guards. Made of flexible Polyethylene, this sheath is slit all the way along one side. The sheath has an overlay to permit any size to carry more than one diameter of cable.

Size	Stock No.	Length (In.)	For Cable
1/2	(895412)	8	3/8" to 5/8" dia.
3/4	(895413)	8	5/8" to 1" dia.
1 1/2	(895414)	8	1" to 1 3/4" dia.
2 1/4	(895415)	8	1 3/4" to 3" dia.

STROMBERG-CARLSON

PREFORMED SPLICES FOR TELEPHONE LINE WIRES AND MESSENGER



This splice can be used to repair damaged line wires and messengers or can be used to splice new construction. Easy to install, no tools are required — simply wrap the splice around messenger or conductor. When used for repair, it does not require cutting wire for application. The splice will develop full rated strength of the wire on which it is installed, and once applied, it will not let go. It can easily be removed and reused.

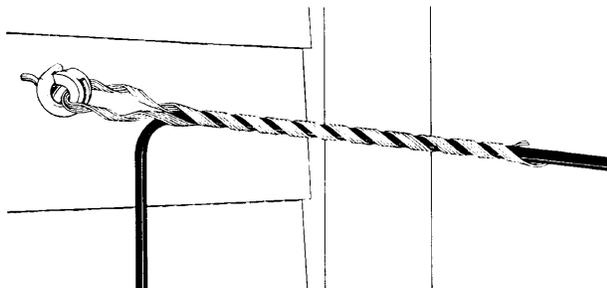
No moving parts to cause “relaxing” either during installation or at a later date. Moisture, temperature changes or freezing has no effect on its grip.

Also available in Copper and Copperweld.

Galvanized Steel

Catalog No.	Stock No.	Messenger Size	Shipping Wt. Lbs./100 Splices
10 GLS—083	(895920)	14 BWG	6
22 GLS—083	(895921)	14 BWG	13
12 GLS—109	(895922)	12 BWG	9
24 GLS—109	(895923)	12 BWG	18
14 GLS—134	(895924)	10 BWG	16
26 GLS—134	(895925)	10 BWG	29

PREFORMED DROP-WIRE DEAD-ENDS



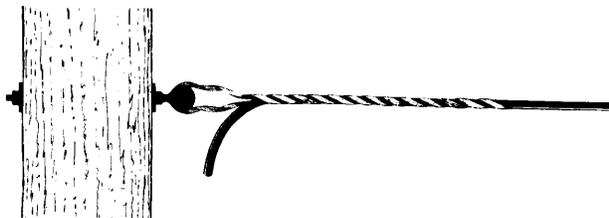
Drop-Wire Dead-Ends are made of stainless steel with a neoprene coating which cushions the grip and effectively protects the conductor insulation. They provide a low radial pressure

over the entire holding area which not only prevents slippage but also eliminates a cause of resagging. Drop-Wire Dead-Ends can be used with reinforced or non-reinforced drop wire. It's a simple matter to install these Dead-Ends. Just place the loop (bail) in the insulator and then wrap on the legs. Where a closed insulator is used, insert one leg of the Dead-End through the insulator eye and then apply the legs. The multiple-wire loop gives extra strength and prevents fatigue failure. These Drop-Wire Dead-Ends can be removed and reused.

Stainless Steel — Neoprene Coated

Cat. No.	Stock No.	Overall Length
13NSDE	(897192)	13"
14NSDE	(897193)	14"

PREFORMED C RURAL DEAD-ENDS

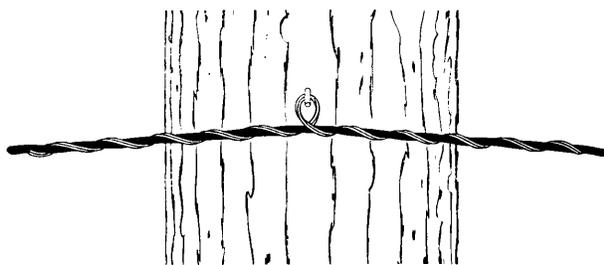


Cat. No.	Stock No.	Conductor Sizes
15 NSDE-14C	(896089)	2 No. 14 CW
20 NSDE-12C	(896090)	2 No. 12 CW 2 —.083 Steel

These C Rural Dead-Ends are applied by hand and are designed for use on 2 No. 14 and 2 No. 12 Copperweld and 2—.083 Steel. C Rural Dead-Ends are made of stainless steel with a neoprene coating. Low radial pressure over the entire holding area assures a positive grip and prevents slipping or damage to the conductor insulation. The multiple wire loop (bail) gives extra strength. To install, simply insert one leg through the eye-bolt and wrap on the legs.

Overall Length Dead-End Tangent Support	Quantity Per Standard Package	Weight Lbs. Per 100
15"	200	15
20"	200	19

PREFORMED C RURAL TANGENT SUPPORTS



Cat. No.	Stock No.	Conductor Sizes
20 NSTS-C	(897007)	2 No. 14 CW
22 NSTS-C	(897008)	2 No. 12 CW 2 —.083 Steel

These C Rural Tangent Supports provide a simple, efficient and inexpensive way to make a mid-span support for all C Rural Cable. They are made of stainless steel with a neoprene coating for corrosion and abrasion protection. C Rural Tangent Supports are easily applied by hand — no tools required. To install, place the loop configuration on the wire and then wrap on the legs. Cross talk is eliminated by giving the line wire ten longitudinal twists, alternating at every other pole.

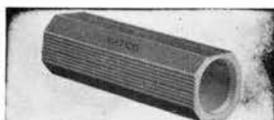
Overall Length Dead-End Tangent Support	Quantity Per Standard Package	Weight Lbs. Per 100
20"	200	9
22"	200	10

CLAY CONDUIT

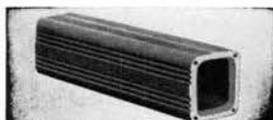
Clay Conduit is manufactured from high grade fine clay, treated at over 2000° F., and salt-glazed to provide a smooth, permanent surface. It is the standard material for underground cable work because of its strength, long life and low cost. A very

complete list of shapes meets all the usual requirements; sizes shown are readily obtainable, while others may be ordered if special applications require them.

In ordering, specify the shape, bore, and length.



1-Way Round
3 1/4"x18" Stock No. (891087)

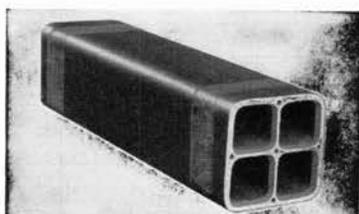


1-Way Square
3 1/4"x18" Stock No. (891086)



2-Way Square
3 1/4"x24" Stock No. (891089)

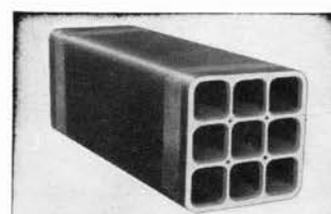
(Not Illustrated)
3-Way Square
3 1/4"x24" Stock No. (891090)



4-Way Square
3 1/4"x36" Stock No. (891091)



6-Way Square
3 1/4"x36" Stock No. (891092)



9-Way Square
3 1/4"x36" Stock No. (894770)

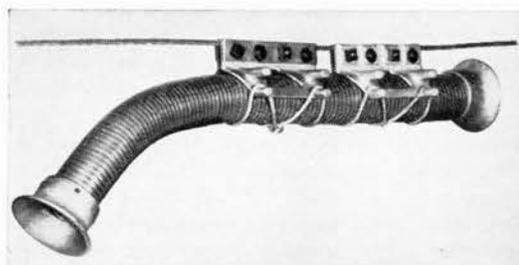
NO. 9145 HUBBARD PLAIN DOWEL PINS



For Clay Conduit

Used in the ends of multiple duct clay conduit for preserving alignment of adjacent sections. Made of 5/16-inch diameter steel with a shoulder in the center. Overall length, 3 3/64 inches. Collar diameter, 5/8 inch. Shipping Weight, 9 Pounds per 100. Catalog No. 9145 Stock No. (891085)

COPE AERIAL CABLE FEEDERS AND STRAIGHTENERS



This feeder and straightener is indispensable for pulling in aerial cable. The wide mouth aluminum bells and flexible steel tubing positively prevent danger to cable or sheath. The holding clamps which securely grip the messenger wire can also be used for dead-ending and splicing work.

All interior surfaces are smoothly finished to accommodate up to 3-inch cables.

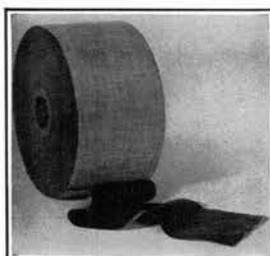
Furnished complete with 6 feet of tubing and 2 pairs of malleable iron clamps.

Extra lengths of tubing and extra holding and splicing clamps available at extra cost.

6-Ft. Tube with 2 Pr. Malleable Iron Clamps

Stock No. (890980)

CONDUIT JOINT TAPE



Used for wrapping the joints of multiple duct conduit prior to the application of the joint mortar, also for wrapping joints of single duct conduit in trench, subway or masonry structures prior to pouring the concrete encasement.

This tape has an adhesive waterproof coating on one side,

and is supplied in 4 and 6-inch widths, and put up in rolls of 100 yards.

Tape adheres closely and firmly to the glazed surface of the conduit and aids in sealing the joints.

In ordering, specify total number of linear yards required.

Width Inches	Stock No.
4	(891072)
6	(891073)

Revised 1-1-57

HYKON REELIFT



An easy way to handle bulky cable reels without using jacks or tugging. A simple lift on the handles and the reel is set up for unrolling cable. Will not tip over. Leverage is such that one man can handle 1000-lb. reels.

Cat. No.	Description	Stock No.
RL-25	Max. 36" Dia., 25" Wide	(895190)
RL-31	Max. 42" Dia., 31" Wide	(895191)

ROLL-A-REEL

Roll-A-Reel is sturdily built to roll reels of electrical wire and cables, or steel strand. Ball bearing rollers with hex ends lock in the end channels and insure the reel rolling smoothly and without friction. The heavy gauge steel frame gives added strength and rigidity. Roll-A-Reel is light in weight and offers extreme portability.

Both styles have simple roller adjustments for extreme reel sizes. Style A, has one simple positive roller lock. Style B, has two locks; one for each front roller. The Style B, provides separate set of rigidly aligned rollers for each side of large reels to compensate for possible variation in their diameter.



Type A



Type B

Style A: Width 30". Depth 28". Height 3½". Weight 50 lbs. Capacity 2000 lbs. Supports up to one 28" wide reel. Stock No. (894050)

Style B: Width 52". Depth 28". Height 4". Weight 110 lbs. Supports two 24" wide reels or up to one 48" wide reel. Capacity 4000 lbs. Stock No. (894051)

SIMPLEX REEL OR DRUM JACKS



No. A1029



No. 321

No. 321 — Single Acting. Handles reels from 20" to 96" in diameter. Equipped with 5 lifting hooks — 9", 15¼", 21¾", 28" and 39" respectively from ground level. Top hook is for 3½" spindles, the second from the top for 3" spindles and the remaining 3 hooks for 2½" spindles.

No. A1029 — Single Acting. Aluminum alloy housing reduces weight 21 pounds. For outside work where footing may be uneven. T-shaped base has total area of 319 square inches, with three threaded and adjustable steel rods insuring a firm, non-rocking foundation. Furnished with left and right hand bases; Jacks are generally paired to keep operators in sight of each other for even lifting. Handles reels from 36" to 84" in diameter. Equipped with 3 lifting hooks 17", 23" and 29" respectively from ground level. Top hook for 3" spindles, and the other 2 for 2½" spindles.

Cat. No.	Stock No.	Capacity Tons	Height Inches	Lift Inches	Weight Lbs.	Lever Furnished Inches
321	(897220)	10	34¼	15	108	60
*A1029	(891205)	10	29½	13¾	83	60

* Pairs furnished with right and left hand bases.

TYPE B COPE CABLE REEL JACKS

Constructed entirely of heavy welded steel channel section, thereby making an extremely rugged piece of equipment. The base sections are 5-inch, 6.7-pound channel; the side legs are of 4-inch, 5.4-pound channel and the back leg of 3-inch, 4.1-pound channel. The base size is 21 inches across and 12 inches in width, to give maximum support in both directions.

Wrought steel square thread has a diameter of 1¾ inches and a length of 18 inches. Swivel yoke has a minimum height of 25 inches and a maximum height of 40 inches. Capacity, 10 tons.

Stock No. (891014)



STROMBERG-CARLSON

Revised 1-1-57

BIERCE CABLE ROLLERS



Frame of forged steel, roller of cast iron, supported and protected on both sides by pressed steel discs.

Hinged member when thrown back allows ample opening for easy removal of frame from messenger wire and cable after cable has been drawn and tied up in position.

Self-contained hinge and grip. Impossible to become disengaged from the messenger wire. Adaptable to all sizes of cable, practically indestructible. Construction assures perfect alignment.

Stock No. (891006)

NEALE MODEL B CABLE SPINNER



A machine designed expressly for one-man operation in spinning new cable or maintenance spinning of existing cable, it may be operated either by a hand crank or pulled along the supporting strand by a man on the ground. A dead weight of 50 to 100 pounds may be substituted for a rider to prevent slippage when operated from ground.

The two supporting trolley wheels are linked by means of a sprocket chain which insures positive driving action for both front and rear wheels. The machine is transferred easily at pole by removing gate in spinner head.

The machine is shipped with the following equipment: spinner chest, seat, safety belt, one tube of grease and one lashing wire clamp.

Catalog No.
Model B

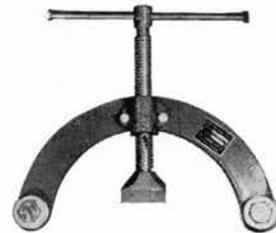
Stock No.
(891004)

NO. LGI LITTLE GIANT SLACK PULLERS

This slack puller eliminates the necessity of leaving slack at the poles for terminal splices, and when a splice is completed the cable will return to its original position.

This handy tool should be in every cable man's kit. It requires but 14 inches on the strand and will pull slack in maximum size cables supported by 16 M. strand. It will not injure cable or strand.

Stock No. (891007)



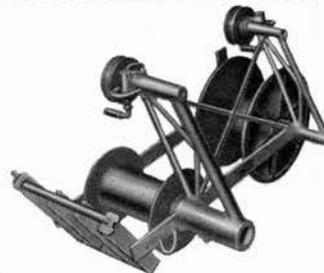
NEALE MODEL "K" SPINNER AND CHEST COMPLETE



Designed for forming three individual cables into a compact triangular pattern (apex downward). Carries two reels of wire, spinning a 13" spiral in which 6 1/2" spacing gives adequate support. May also be used for single cable down to 5/8" O.D. Includes one Phillips Screwdriver, 6"; one Common Screwdriver (bent 6"); two adjustment pins; one 3/8-7/16" Open End Wrench; two Neale Bronze Lashing Wire Clamps; two Tow Ropes, and TB4K Spinner Chest.

Shipping Weight: 68 lbs. Cat. No. 400 Stock No. (897221)

CABLE PLACING DOLLY AND CHEST COMPLETE

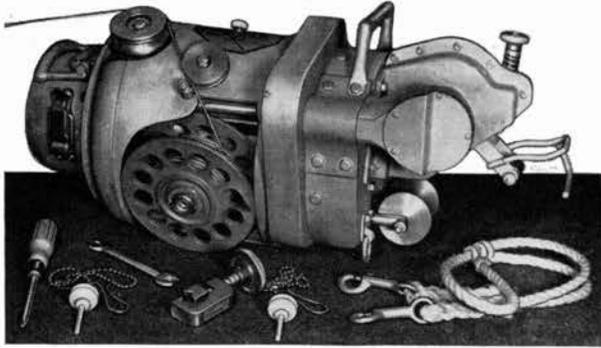


Designed for the raising and preforming of cable prior to spinning. Used immediately in front of the Model K Spinner. Of welded steel construction with Aluminum forming rollers. All steel cadmium plated. Furnished complete ready to use in a 3/8" plywood chest having metal reinforced corners.

Shipping Weight: 68 lbs. Cat. No. PD26 Stock No. (897222)

Revised 1-1-57

NEALE MODEL D CABLE SPINNER



Designed for use by a construction crew to place and spin new cable or maintenance spinning of existing cable. Operates on ball bearing races with double drive mechanism which eliminate slipping. This machine is instantly adjustable to take cable from minimum size to a maximum diameter of 2 1/4 inches. The spinning wire supply is always visible. A ratchet on the strand wheel makes it impossible for the spinning wire to slack off when pull on the tow line is released. The machine comes furnished with one lashing wire clamp, two adjustment wrenches, one screwdriver, one open end wrench, one tow rope, and packed in spinner chest. Machine size is: length 24 inches, diameter 10 inches, weighs 72 pounds.

This machine has compound gearing that eases the spinning operation on up grades. The hand crank has a positive snap action that can be changed from regular to compound drive.

Catalog No. 300

Stock No. (894681)

NEALE SPINNING OR LASHING WIRE

Stock No. (891005)



ORDERING INFORMATION FOR NEALE SPINNING OR LASHING WIRE

Cat. No.	Wire Size "	Ft. per Coil	Wire Type	Used With	Corrosion Conditions
1A	.091	325	Heavy galvanized, soft annealed	Steel strand	Normal
12A	.091	325	Standard galvanized, soft annealed	Steel strand	Light
5A	.061	650	Standard galvanized, soft annealed	Steel strand (small cable)	Light
10A	.061	650	Type 316 Stainless Steel	Steel strand	All conditions
11A	.061	650	Type 430 Stainless Steel	Steel strand	All conditions
4A	.091	325	Special soft copperweld wire	Copperweld strand only	Heavy
6A	.090	325	Solid soft drawn copper	Copperweld strand only	Heavy
7A	.091	325	Aluminum alloy wire	Steel strand	Heavy
9A	.061	325	Electro-galvanized, special soft	Steel strand	Normal
14A	.080	325	Copperweld, special soft	Copper or copperweld strand	All conditions
16A	.080	375	Aluminum alloy	Steel strand	Heavy

Cone shaped hubs standard. Coils packed 6 per carton. To figure requirements, add 10% to cable length.

CRAPO GALVANIZED STEEL CABLE LASHING WIRE

"C" Coated



Crafo Galvanized ("C" Coated) Steel Cable Lashing Wire is a superior product manufactured specially for lashing cable to messenger strand by the modern spinning method.

Produced from selected steel, this wire is carefully processed to insure ductility and ample tensile strength and then is given an

extra heavy, smooth, tightly-adherent zinc coating to prolong its life. This coating, known as "Class C," is three times as heavy as standard Class "A" or "double-galvanized" coating.

Crafo "C" Coated Cable Lashing Wire is produced in .091" and .061" diameter. It is put up in neat, compact, thread-lay coils which can be furnished with straight or tapered arbor holes.

COIL DIMENSIONS: Arbor hole for straight hub, 1 7/8 inches, minimum; tapered hub, approximately 2 inches to 2 1/2 inches. Outside diameter of coil (nominal) 6 inches; width (nominal) 1 1/2 inches. Length of wire in coil: size .091", 325 feet, plus or minus 10 feet; size .061", 650 feet, plus or minus 10 feet. Nominal weight of coil: size .091", 7.2 pounds; size .061", 6.45 pounds.

Tied with easily removed cotton tubing. Each coil labeled to show size and approximate length. Packed in strong corrugated boxes, 6 coils to the carton. Approximate gross weight of carton ready for shipment: size .091", 44 pounds; size .061", 40 pounds. Tare weight, approximately 1 pound.

NOTE: Orders for spinning wire must specify whether for straight or tapered arbor.

Cat. No.	Stock No.	Wire Size	Coil Length	Arbor Hole
C-091-S	(894894)	.091"	325'	Straight
C-091-T	(894894)	.091"	325'	Tapered
C-061-S	(896066)	.061"	650'	Straight
C-061-T	(896066)	.061"	650'	Tapered

CRAPO TYPE 430 STAINLESS STEEL CABLE LASHING WIRE

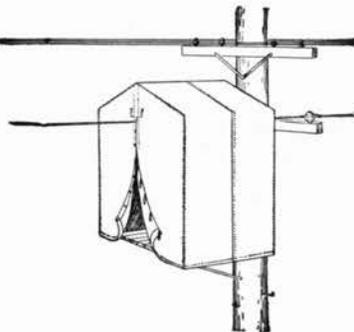
Developed primarily for use in highly corrosive atmospheres, this wire is being used also in other locations. Available in the following sizes and coil lengths:

Stock No.	Diameter	Approx. Coil Length	Nom. Wt. per Coil
(896068)	.065 inch	450 feet	5.0 pounds
(896069)	.065 inch	650 feet	7.2 pounds
(896070)	.061 inch	735 feet	7.17 pounds
(896067)	.045 inch	1200 feet	6.37 pounds

STROMBERG-CARLSON

AERIAL CABLE SPlicERS' TENTS

Used in conjunction with pole platforms to protect cable splicers in cold and stormy weather. Made of 28½-inch best available quality cotton duck. Roof is spread and supported by means of a collapsible 3-ribbed galvanized metal framework which fastens to cable suspension strand. On each of 2 opposite sides of tent there is an opening which can be laced from the inside after tent is erected.



Cat No.	Stock No.	Lgth. In.	Width In.	Height In.	Wt. Lb.
S	(890999)	38	54½	104	38
L	(891000)	54	54½	104	45

NATIONAL CABLE RINGS

Easily and quickly placed on the strand and once in position are rigidly immovable.

Easy to install.

Cable can be pulled in from either direction, and neither the strain of this operation nor the swaying of the cable by the wind, can move the ring from its original position, for the greater the strain, the tighter the grip.

Hot dip galvanized; made in all strand sizes. Specify strand size desired, as well as size of ring.



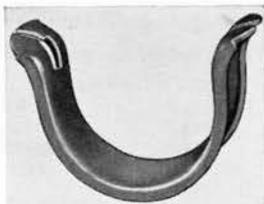
Size Inches	Stock No.	Std. Pkg.	Wt. Lb. per 1000
1 ½	(890576)	1000	47
2-Light	(890577)	500	66
2-Heavy	(890578)	500	90
2 ½	(890579)	500	108
3	(890580)	400	125
3 ½	(890581)	300	140
4	(890582)	250	192
4 ½	(890583)	200	210

GALVANIZED CABLE RING SADDLES

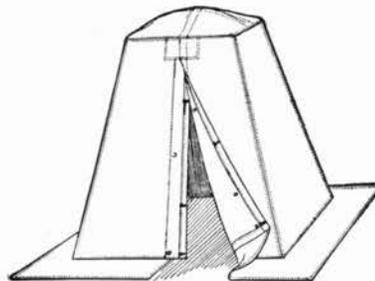
Reduces ring cutting on lead sheath due to vibration and assures a longer life to the cable.

Made of steel, hot dip galvanized after forming.

Size Inches	Stock No.	Std. Pkg.	Wt. Lb. per 1000
1 ½	(890589)	1000	90
2	(890590)	1000	100
2 ½	(890591)	500	110
3	(890592)	500	135
3 ½	(890593)	500	150



GROUND TENTS



This tent is used in conjunction with all kinds of ground work, especially when working in manhole. Covering is best available quality duck. Iron pipe frame has four legs, each of which is provided with a joint, so it can be folded back on itself and then the legs fold in toward the center of tent. Has no center pole, but is held up at the four corners. A 12-inch sod cloth runs all around base of tent. No stakes included.

Size, 6 x 6 feet square base at bottom, 3 feet square at top, 6½ feet high.

Approximate weight, 60 pounds. Stock No. (890997)

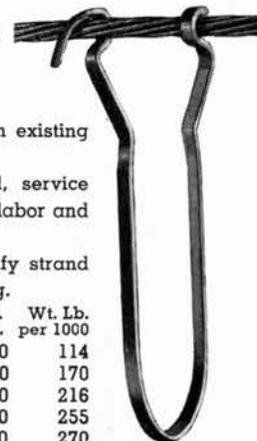
EXTRA LONG GALVANIZED CABLE RINGS

For placing a second cable on an existing messenger.

When this cable ring is used, service interruption and expense in time, labor and materials is eliminated.

Made in all strand sizes; specify strand size desired as well as size of ring.

Size In.	Stock No.	Lgth. Inches	Std. Pkg.	Wt. Lb. per 1000
1 ½	(890584)	4¾	500	114
2	(890585)	5¼	300	170
2 ½	(890586)	6¾	250	216
3	(890587)	7½	200	255
3 ½	(890588)	8	200	270



LEAD CABLE SPACERS

Used in lashed cable construction to separate cable and strand. Lower surface bears against cable, upper concave surface against strand.



Spacing	Qty. Per Box	Stock No.
¼"	10	(894910)
½"	10	(894911)
¾"	5	(894912)
1"	4	(895108)

PLASTIC CABLE SPACERS

Plastic Cable Spacers for use with any plastic coated cable are available on request. Specify cable size when ordering.

Spacing	Stock No.
¼"	(895346)
½"	(895347)
¾"	(895348)

Revised 1-1-57

RELIABLE CABLE HANGERS

For supporting lead covered cable or insulated conductors to galvanized steel strand. Excellent with neoprene wire.

These zinc cable hangers wrap around the cable, securely attaching them to the messenger, minimizing creep bow and fatigue. No sheath cuts—no replacement of rings—no expensive equipment needed. Will outlast the cable.

The hangers bond the cable sheath and strand to give added protection against lightning. They are strong, easy to install and economical.



Ordering Information — Reliable Cable Hangers

Cat No.	Stock No.	Length	Size of Cable on 3/16" Strand Inches		Ship. Wt. Lb./M
			Max.	Min.	
Zinc					
1	(890611)	7 7/8"	3/4"	1/2"	35
2	(890612)	11"	1 1/8"	1/2"	53
3	(890613)	14"	1 5/8"	1/2"	73
4	(890614)	16"	2"	1 1/2"	92
Copper					
1C	(895789)	7 7/8"	3/4"	1/2"	30.5
2C	(895790)	11"	1 1/8"	1/2"	44
3C	(895791)	14"	1 5/8"	1/2"	78
4C	(895792)	16"	2"	1 1/2"	99

Standard Package, either Zinc or Copper—100.

DIAMOND 1-HOLE STEEL CLAMPS



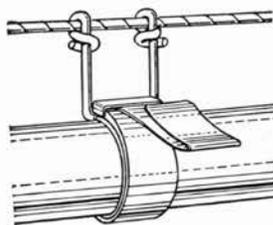
Makes a very efficient fastening where lighter construction is to be used, and where it will not be subjected to severe strains.

Made of cold rolled mild steel annealed and Diamond galvanized after forming.

Cat. No.	Stock No.	Cable Size	Nearest Pipe Size	Nearest Thinwall Conduit	Size Stock	Wt. Lb. per 100
L-3	(890629)	3/16"			1/2" x .072"	1
L-4	(890630)	1/4"			1/2" x .062"	1
L-5	(890631)	5/16"			1/2" x .062"	1
L-6	(890632)	3/8"	1/8"		1/2" x .048"	1
L-7	(890633)	7/16"			1/2" x .048"	1.1
L-8	(890634)	1/2"	1/4"	3/8"	1/2" x .048"	1.2
L-9	(890635)	5/8"			1/2" x .048"	1.2
L-10	(890636)	3/4"			1/2" x .048"	1.3
L-11	(890637)	7/8"	3/8"	1/2"	5/8" x .062"	3
L-12	(890638)	1"	1/2"		1 1/16" x .062"	4.5
L-14	(890639)	1 1/8"		3/4"	1 1/16" x .062"	5
L-16	(890640)	1 1/4"	3/4"		3/4" x .080"	7
L-18	(890641)	1 3/8"		1"	3/4" x .080"	7.5
L-20	(890642)	1 1/2"	1"		7/8" x .115"	15
L-24	(890643)	1 3/4"		1 1/4"	7/8" x .115"	16
L-26	(890644)	1 7/8"	1 1/4"		7/8" x .115"	17
L-28	(890645)	2"		1 1/2"	7/8" x .115"	19
L-30	(890646)	2 1/8"	1 1/2"		7/8" x .115"	20

Std. Pkg. L-3-L-14, 500 pcs., L-16-L-18, 250 pcs., L-20-L-30, 100 pcs.

DIAMOND AERIAL CABLE SUPPORTS



To supply flexible supports at each side of the pole to prevent ring cut. Strap is wrapped around the cable three times over itself, passing through the hinge member. Adjustable to any height. The supports are placed two on each side of each pole, 20 inches apart.

Composed of a zinc strap, a hinge joint member which holds free end of zinc strap in position on a soft galvanized U shaped wire 5 inches long.

Cat. No.	Stock No.	Length Strap Inches	Diam. of Cable or Sleeve In.	Circumference Inches	Std. Ctn.	Wt. Lb. per 1000
891	(890615)	10	3/4"	2 5/16	500	84
892	(890616)	16	1 3/16	3 5/8	500	110
893	(890617)	22	2"	6 5/16	300	130
894	(890618)	28	2 5/8	8 5/16	300	162
895	(890619)	34	3 1/8	10	300	186
896	(890620)	50	+5	15 13/16	200	256
897	(890621)	64	+6 1/2	20 1/2	200	315
*897	(890622)	64	+6 1/2	20 1/2	200	350

*Has 10" wire. †Maximum diameter of sleeve.

To order Aerial Cable Supports less "U" shaped wires (for lashed cable), specify letter "L" as prefix to catalog number. Example: L-891 for 10" strap.

DIAMOND STRAND CONNECTOR



Diamond Strand Connectors are designed for connecting up dead ends of messenger strands when they occur between poles. With this strand connector the wire strands are looped in opposite directions and held with guy clamps.

The improved design will accommodate up to 25,000 lb. strand. The enlarged oval-shaped holes facilitate threading strand through the connector. The larger body diameter around which the strand is looped in the connector distributes pressure over more of the strand.

The deeper grooves follow a smooth continuous arc forming a perfect seat for the strand, eliminating vibration wear.

Net weight each, 1 lb.

Catalog No. 867 Stock No. (893405)

MARLINE TWINE

Furnished in one-pound balls in both the 2 and 3-ply varieties.

Catalog No.	Stock No.	Ply
415	(890599)	2
416	(890600)	3



COPE COMPOUND KETTLE

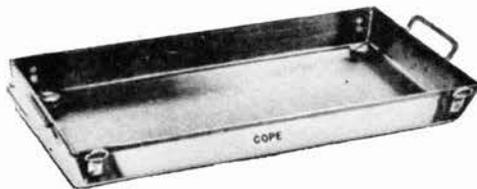


Of brazed and welded construction throughout, the outer jacket keeps material at correct pouring temperature for a long period. The heat conductor tube assures even melting of compound, allows gas to escape, and prevents solidified compound from exploding when heating. Double ring on bail permits attaching of hand line for raising or lowering kettle to work. Capacity 5 Qts. Weight 6½ lbs.

Catalog No. 53

Stock No. (894982)

PARAFFIN PANS



These pans, made from 18 gauge steel, are specifically designed for splicer's use. Corners are welded and top edges double hemmed. Drain plug bushings are brazed into the bottom. Handle straps and dee rings are securely riveted.

Cat. No.	Stock No.	Length	Width	Depth	Weight
67	(894983)	24"	14"	3¼"	8½ lbs.
68	(894984)	22"	13"	2¼"	6¾ lbs.



PARAFFIN POTS

Made from 16 gauge steel, this pot has electric seam welded construction throughout. Indented bottom section fits securely the top plate lugs of furnace. 9 Qt. capacity. Weight 5 lbs.

Catalog No. 56

Stock No. (894985)

PARAFFIN DIPPER

Drawn from 20 gauge steel, has rolled bead completely around top with pouring lip on each side. Sturdy handle, 9¾" long riveted to dipper body. Diameter top, 4-13/16"; bottom 3⅞". Depth 3¼". 1 Qt. capacity. Weight 1 lb.

Cat. No. 57



Stock No. (894986)

DOE'S PLUG BURNISHING PASTE



For polishing cord plugs in telephone exchanges. It insures an electrically perfect contact and insulates between tip and ring.

Guaranteed to be absolutely non-corrosive and electrically perfect.

Stock No. (890748)

DOE'S COMMUTATOR BURNISHING PASTE

For Commutators — Slip Rings — and Any Electrical Contacts.

This preparation cleans, polishes and insulates between the commutator segments. Assures perfect contact and assures the elimination of noise, sparking and other commutator troubles.

Stock No. (890749)

NO. 0 KORITE CABLE COMPOUND

No. 0 Korite is a non-corrosive, acid-resisting, non-conducting material applied to cables. Sets quickly and forms a protection against chemical fumes.

For new cable 100 pounds coats 325 feet of 25 pairs, 300 feet of 50 pairs, 200 feet of 75 pairs, 165 feet of 100 pairs, 150 feet of 125 pairs, 125 feet of 150 pairs, 100 feet of 200 pairs of No. 22 B. & S. gauge new cable, if properly applied.

Sold in 100 pound cartons. Stock No. (890713)

NO. 32 METAL RIM TAGS



Designed especially for use on heavy merchandise which will receive much handling. Cut from stock which is clear white or evenly colored (red, green, or yellow) with an exceptionally fine writing surface. The rims, of bright, non-tarnishing, smoothly cut metal, protect the edges, prevent bending, and improve the appearance. Strung with strong twine in colors to match the tags. Size of

tag, 1" diameter.

100 in a bunch

500 in a box

Stock No. (890746)

Revised 1-1-57



PROTEK-SORB DESICCANT For Drying Cable Splices

Use of Protek-Sorb Desiccant is an improved method of drying cable splices eliminating the hazards and inconveniences of boiling-out cable splices with hot, melted paraffin. Splices are dried by pouring a recommended quantity of Desiccant into the splice before it is closed.

This Desiccant is a granular material, chemically inert and non-corrosive. It will not dust, cake, powder nor liquefy when used—even when completely saturated it looks and feels perfectly dry. Has exceptionally high dielectric constant.

160 gram can (12 per case) Stock No. (890870)
650 gram can (12 per case) Stock No. (890871)

RUBBER INSULATING BANDAGE

Used for temporary insulation to protect cable splices from moisture, or as a temporary barrier for protection from high-tension wires. Roll is 14 feet long, four inches wide.

Stock No. (894917)

CABLE WRAPPING CLOTH

A closely woven cotton fabric impregnated with waterproofing compound. For use in temporarily closing splices and openings in sheath of aerial cables to protect them from the weather. Furnished in sheets 24 inches by 38 inches or in yardage approximately 38 inches in width.

Stock No. (895192)

UNIQUE SOLDER POURING LADLE



Pours the metal drop by drop or in a steady stream, exactly where you want it. Positive close-to-bowl grip on the cool wood handle reduces overhang to a minimum; eliminates strain; makes it easy to direct and control the flow of molten metal. Pressed steel ladle treated so solder cannot stick. Lasts a lifetime. Wood handle inexpensive and easy to replace, only a screwdriver needed.

Dia. Bowl	Stock No.	Capacity	Weight
2 1/2"	(890763)	1/8 pint	10 oz.
3"	(890764)	1/4 pint	12 oz.
3 1/2"	(890765)	3/8 pint	14 oz.
4"	(890766)	1/2 pint	16 oz.

METAL POURING LADLES



Catalog No.	Stock No.	Diameter Bowl In.
373	(890756)	3
373	(890757)	4

FLAT WIPING CLOTHS

Furnished in 16-ply herringbone and 8-ply moleskin.



Size Inches	Herringbone Stock No.	Moleskin Stock No.
2 x2	(890778)	(890783)
2 1/2 x2 1/2	(890779)	(890784)
3 x3	(890780)	(890785)
3 1/2 x3 1/2	(890781)	(890786)
4 x4	(890782)	(890787)

FORMED WIPING CLOTHS

Each cloth wrapped separately with size of cloth indicated on wrapper.

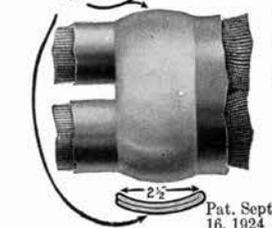
Williams formed flexible finished wiping cloths.



Size Inches	Herringbone Stock No.	Moleskin Stock No.
2 x2	(890788)	(890793)
2 1/2 x2 1/2	(890789)	(890794)
3 x3	(890790)	(890795)
3 1/2 x3 1/2	(890791)	(890796)
4 x4	(890792)	(890797)

CATCH CLOTHS

Readily prepared, not formed, straight edge.



Size Inches	Herringbone Stock No.	Moleskin Stock No.
5x5	(890798)	(890803)
6x6	(890799)	(890804)
6x7	(890800)	(890805)
7x8	(890801)	(890806)
8x8	(890802)	(890807)

All wiping cloths well prepared; ready for use without breaking in.

MELTING AND SOLDER POTS



Catalog No.	Stock No.	Size Inches
398	(890767)	5
398	(890768)	6
398	(890769)	7

LACING TWINE

Used for lacing wires into cables or lacing fanned out ends. Waxed linen; 6 and 12 Cord.

Put up in 1 lb. tubes.

Stock No.	Description
(890741)	6 Cord
(890742)	12 Cord

MUSLIN TAPE

Muslin tape is used for wrapping cable splices before slipping lead sleeve into position. It is an unbleached muslin having a 48 x 48 weave, furnished 4 and 2 inches wide in rolls of 8 yards each. Edges are pink cut to prevent raveling.

Width Inches	Stock No.
2	(890744)
4	(890745)

NO. 295 HARDWOOD DRESSERS



Made of hardwood for shaping and dressing lead sleeving, etc. Weight, 15 pounds per dozen. Stock No. (890770)

Revised 6-1-55

NO. 450 WIRE SOLDER



Wire solder is produced by an extrusion process. It can be supplied in practically any desired diameter from 1/40" to 29/64" and of any specified composition.

Made in grade 35-65. Furnished in spools of from 5 to 50 lbs. Stock No. (894189)

DUTCH BOY WIPING BAR SOLDER

Dutch Boy bar solder is available in several grades—each one of which is suitable for certain kinds of work and is designated by number. The grades with the lowest numerical designation contain the most tin.



**DUTCH BOY 111
50/50 Tin Content**

This is the highest grade solder sold under the Dutch Boy trademark. It is guaranteed to be made of new lead and tin, carefully mixed in equal parts (50% tin and 50% lead). Its melting range is 361° F to 421° F. Dutch Boy 111 is bright, strong and free from impurities. It flows easily, covers more area and has superior adhesion. It is widely used for new roofing work and is popular among tinsmiths, manufacturers and cannors. Sold in bars weighing approximately 1 1/2 lbs. Stock No. (890844)

**DUTCH BOY 776
40/60 Tin Content**

Dutch Boy 776 contains an unusually large percentage of tin for solder of this grade. It has a melting range of 363° F to 450° F. When used by plumbers for wiping it can be reduced slightly with more lead. Sold in bars weighing approximately 1 1/2 lbs. and ingots weighing 5 lbs. Stock No. (890845)

ALLEN SODERING PASTE

Standard Formula. Safest sodering paste made—fast working—a convenient corrosion-free, soft form of flux. Adheres to the surface while you soder. Assures secure electrical and mechanical joints. Saves time. Triples strength of the soder. Makes soder self-fluxing. Underwriters Laboratory approved listing.



Size	Stock No.	No. Per Carton
2 oz.	(890851)	24
4 oz.	(890852)	24
1/2 lb.	(890853)	12
1 lb.	(890854)	6
5 lb.	(890855)	1

KESTER PLASTIC ROSIN-CORE SOLDER

For electrical and radio work. Contains a plastic rosin flux that will not corrode. Accepted standard for inside wiring and radio work.

Standard size No. 5 Kester rosin core solder is approximately 3/32 inch in diameter, running about 50 feet to the pound, in 1-pound spools. In sizes from approximately 1/4 inch to about .040 inch in diameter. Ribbon or flat type. Furnished in 1 and 5 pound spools.



- 1 Lb. Spool Stock No. (890850)
- 5 Lb. Spool Stock No. (894187)

A special size Kester Plastic Rosin-Core Solder, 1/16" in diameter, is available on request.

KESTER ACID CORE SOLDER

For general soldering. Used on both new and old work. Also recommended for heavy outside electrical wiring.

Standard size No. 3 about 1/8 inch in diameter. About 30 feet per pound.

As heat is applied a scientific flux flows from tiny pockets inside hollow wire form of Kester; melting, it forms a permanent bond. Requires only heat. Furnished in 1 and 5 pound spools.



- 1 Lb. Spool Stock No. (890849)
- 5 Lb. Spool Stock No. (894186)

KESTER STEARINE CORE SOLDER

Soft flux solder particularly adapted to work on lead sheathed cable. Available in 1/8" or 3/32" diameter, in 1 or 5 pound spools.

**COPE SOLDERING COPPERS
Maple Handle**



The Cope Soldering Coppers are especially designed for use in the utility field, with features which make them superior to the ordinary commercial copper. The maple handle is securely fastened to the shank by steel pins, yet is insulated to protect it from burning. The handle is steel bound at both ends and has a heavy carrying ring.

Cat. No.	Stock No.	Size	Type	Ship Wt.
531	(895193)	1 Lb.	Pyramid	1 1/4 Lb.
532	(895194)	2 Lb.	Pyramid	2 1/4 Lb.
533	(895195)	3 Lb.	Pyramid	3 1/4 Lb.
534	(895196)	2 Lb.	Chisel	2 1/4 Lb.

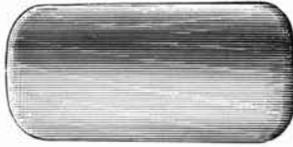
STROMBERG-CARLSON

Revised 1-1-57

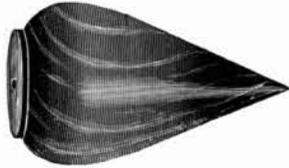
NO. 302 DRIFT PLUGS

For expanding ends and smoothing out lead sleeves. Dogwood; sizes, 1, 1¼, 1½ and 2 inches.

Stock No. (890771)



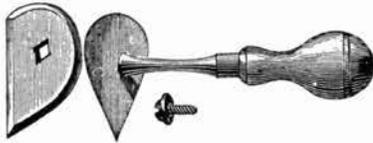
NO. 301 TURN PINS



For expanding ends and smoothing out lead sleeves. Dogwood; sizes, 2¼, 2½ and 2¾ inches.

Stock No. (890772)

NO. 304 SHAVE HOOKS



Used for scraping lead sleeves, cable ends, etc. Has removable blade.

Cat. No.	Stock No.
No. 304, with One Oval Blade	(890774)
No. 305, Oval Blade Only	(890775)
No. 305, Half Oval Blade Only	(890776)
No. 305, Triangular Blade Only	(890777)

NO. 1515-1 KLEIN'S CABLE SHEATH

Splitting Knives



Extra heavy. Knife edge is tempered and ground to a keen edge. Handle is made of leather. Weight per dozen, 12 pounds.

Stock No. (890773)

CABLE PASTERS

A 2-inch wide paper tape gummed on one side.

600 ft. per roll.

Stock No. (890711)



GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

BERNZ DISPOSABLE CYLINDER PROPANE TORCHES AND LAMPS

The Bernz-o-Matic line of propane torches and lanterns is a definite asset to the lineman or inside repairman whose use of such equipment is not excessive. Replaceable tips and disposable cylinders used in either torch or lantern add to utility at low cost.

TX-10 Propane Torch



General purpose torch which has the following advantages:

1. Instant lighting—no pumping, priming, filling or spilling.
2. Precision tip flame in two interchangeable sizes—gives concentrated, directed heat for close work.
3. Disposable cylinder—used with any Bernz torch head. Contains enough fuel for 15 continuous hours burning time. Self-sealing valve prevents leakage.
4. Lightweight—complete unit, fully loaded, weighs only 3 lb.
5. Free of maintenance and completely safe.



TX-9

TX-9 Replacement Unit

The propane cylinder, TX-9 is the basic unit, which in combination with a choice of tips or lantern stand and reflector make the complete assembly. Self-sealing feature allows it to be removed at any time. No carbon clogging or deposits requiring cleaning.

Burner Units



TX-1 Burner



TX-2 Burner



TX-300 Flame Spreader



TX-400 Solder Tip

Propane Gas Lantern



TX-700 Lantern

Long-burning, safe, bright light. Always ready—as easy as an electric torch and illuminates a much wider area. For cable work at night, on platforms or in tents; also for emergency repairs to trucks and as warning lamps. Uses the same TX-9 disposable cylinder used with torch heads. Self-sealing tank. Fuel can be stored indefinitely without evaporation.

General Ordering Information

Cat. No.	Stock No.	Description	Weight
TX-10	(895686)	Pencil Flame Burner Torch (complete with disposable fuel cylinder)	3 lb.
TX-11	(895687)	Utility Flame Burner Torch (complete with disposable fuel cylinder)	3 lb.
TX-9	(895688)	Replacement Fuel Cylinder	2 lb. 2 oz.
TX-700	(895803)	Propane Gas Lantern	6 lbs. 10 oz.

Catalog No.	Description	Weight
TX-1	All Brass Pencil-Flame Burner Unit	10 oz.
TX-2	All Brass Utility Burner Unit	10 oz.
TX-300	Flame Spreader (use with TX-2)	5 oz.
TX-400	Small Soldering tip (use with TX-1)	4 oz.

Revised 6-1-55

UNIQUE GASOLINE BLOW TORCHES



No. 0

A safe, compact torch for the tool kit—with a hundred practical uses. A pleasing design this is certain to attract attention anywhere. Beautifully finished in red and black. Fine for use in close quarters and for sweating joints on small size copper tubing. Flame can be controlled to fine pointed jet. Burns in any position. Dimensions 1 x 6" — 1900° F. Closing

valve forces needle through orifice, cleaning it of foreign particles. Needle, orifice block and channel plugs are removable—threaded—for replacement or for cleaning of generator channels. Top filler opening. Flat tank 2¾" width x 5". Generator wind-shield included.

Cat. No.	Stock No.	Description
0	(894852)	1 Pint, Wt. 3 lb.

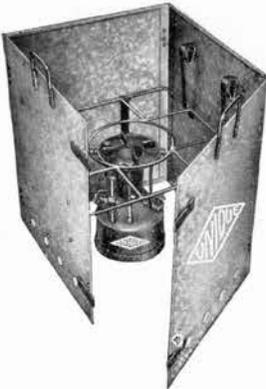
No. 3

A medium size flame torch for service under severe weather conditions. Used extensively by Public Utilities, Railroads, Municipalities and Electricians and mechanics whose work requires the use of a medium size flame. Long horizontal fuel veins drilled parallel with and directly under the flame. Produces a forceful blast flame—1x7"—2000° F. Flame can be regulated down to a small pointed jet. closing valve forces cleaning needle through orifice, keeping it clean and full size. Removable cleaning needle and orifice block. Removable fuel vein plugs. Fill thru bottom funnel filler.



Cat. No.	Stock No.	Description
3	(894854)	1 Quart, Wt. 4 lb.

UNIQUE SAFETY FOLDING SHIELDS



No. 50

The Public Utility standard shield. A 4-panel shield with welded steel grate and supporting brackets. Broad support for large pots and kettles. Made of galvanized iron. Panel edges rolled around ¼" rod—no sharp corners. Completely rust-proof.

4 Panels fold flat for carrying and storing. Weight 27 pounds.
Cat. No. 50 Stock No. (894850)

No. 50-C

Protects the public from flame and hot material. It shields the furnace from wind, affording storage space for pot, ladle and small tools. Made of galvanized iron. Panel edges rolled around ¼" rod—no sharp corners. Completely rust-proof.

3 Panels fold flat for carrying and storing. Weight 15 pounds.
Cat. No. 50-C Stock No. (894851)



UNIQUE GASOLINE HEAVY DUTY PUBLIC UTILITY FURNACE



Powerful blast flame melts 50 pounds solder in 10 minutes. The finest all weather gasoline furnace. Thousands of units in daily use by Utilities, Municipalities, Railroads, heavy industries, sheet metal workers and plumbers for melting solder, paraffin compounds; for heating solder-irons.

GENERATOR—Fitted with replaceable orifice block. Easily cleaned thruout by removing plugs from straight lined channels. Windproof, requiring no additional protection. When the revolving shield is open the generator is in full view for priming and attention. The flame is 2000°

F., 1½" x 12" length. From small jet to full blast it is finely controlled without overheating.

TANK—Of heavy steel with broad base. Welded thruout, shock ring protects bottom.

TOP PLATE—Rugged, with ample lug support for large pots and kettles. The handle locks to support solder-irons.

Cat. No.	Stock No.	Description
50	(894855)	1 ½ Gal., Wt. 15 lb.
53	(894856)	1 Gal., Wt. 13 lb.

UNIQUE KEROSENE HEAVY DUTY UTILITY FURNACE



Powerful blast flame melts 50 pounds solder in 10 minutes. Specify the kerosene furnace if you have trouble getting unleaded gasoline. It starts on kerosene in 4 minutes and is just as efficient in every way as a gasoline furnace. Thousands of units in daily use by Utilities, Municipalities, Railroads, Telephone and Heavy Industries, Plumbers and others, for melting solder, paraffin and compounds.

GENERATOR—The figure-8 generator burns kerosene without carbon formation, producing a clean flame of 2000° F. Regulating the flame volume valve for full or reduced flame automatically passes the scraper blades under orifice, clearing it of foreign particles.

TANK—Made of Steel, copper brazed thruout—with powerful dependable pump.

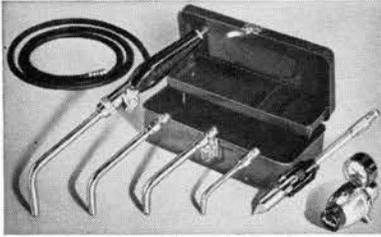
TOP PLATE—Rugged, with ample lug support for large pots and kettles.

Cat. No.	Stock No.	Description
55	(894857)	1 Gal., Wt. 13 lb.

STROMBERG-CARLSON

Revised 6-1-55

PREST-O-LITE 5-in-1 OUTFIT



Five distinct outfits for a multitude of uses where it is necessary to apply the proper flame and exactly the right amount of heat to a job. Includes No. 402 Torch Handle, Tank Union for B and MC Tanks, four Torch Stems in graduated sizes, and No. 8 Soldering Iron. Also 6 ft. of hose, and metal carrying case.

Does not include Pressure Regulator, but this may be ordered separately. (See description on this page.)

Catalog No.	Description	Stock No.
30 x 03	5-in-1 Standard Outfit (replaces 0-6109)	(890905)

PREST-O-LITE 4-in-1 OUTFIT



The 4-in-1 Outfit has the same No. 402 handle and open flame stems as the 5-in-1, but omits the soldering iron. Used in the same manner for heating, soldering and light brazing. Comes in a waterproof carrying roll of vinylite, with separate pockets for each part.

Does not include Pressure Regulator, but this may be ordered separately.

Catalog No.	Description	Stock No.
30 x 06	4-in-1 Standard Outfit (replaces 0-6343)	(890895)

Note

The illustrations above show the Precision Models of the 5-in-1 and 4-in-1 Outfits. The only difference between the models illustrated and the Standard Model is that the Precision Model uses No. 401 Handle with shut-off valve (see below), and comes with a Pressure Regulator which is not included in the Standard Model.



No. 402 Standard Torch Handle



No. 401 Precision Handle

R-411 ACETYLENE REGULATOR



The Prest-O-Lite R-411 Acetylene Pressure Regulator is a fully adjustable type which may be set for precisely the correct working pressure regardless of how much gas is in the tank. The gauge shows at a glance the contents of the tank. Often saves its cost by eliminating use of excessive pressures. Pressure adjustment screw regulates pressure from 1 to 13 lb. per sq. inch.

Catalog No.	Description	Stock No.
R-411-MC	Used with MC Tank	(895197)



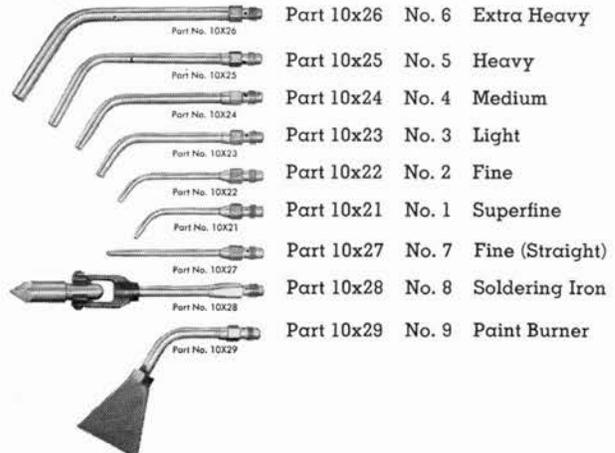
PREST-O-LITE STYLE MC ACETYLENE TANKS

Prest-O-Lite Gas is available in steel shell tanks which deliver pure acetylene at the turn of a valve. In these tanks it is freeze-proof and of guaranteed purity. Refills can be obtained for the price of the gas alone.

Style No.	Capacity Cubic Ft.	Height Inches	Dia. Inches	Weight Lbs.	Stock No.
MC	10	15	4	9½	(890907)

PREST-O-LITE EXTRA STEMS

Prest-O-Lite Torch Stems, as used in the 5-in-1 and 4-in-1 Outfits are available separately on special order.



STROMBERG-CARLSON

STROMBERG-CARLSON

Protectors



A full line of outdoor and indoor protectors, cable terminals and fuses — rugged and dependable. Stromberg-Carlson recommends only the best, thoroughly proven equipment.

CONTENTS
SECTION Q

PROTECTORS

	Page
Cable Terminals	3q
Fuseless Protectors	10q
Station Protectors	11q
Terminal Boxes	15q
Terminal Strips	15q
Distributing Frames	17q
Central Office Protectors	18q
Fuses	19q
Knife Switches	20q

**Reliable Type "B"
PROTECTED CABLE TERMINALS**

Reliable Type B Cable Terminals are made for three standard cable terminal fuses.

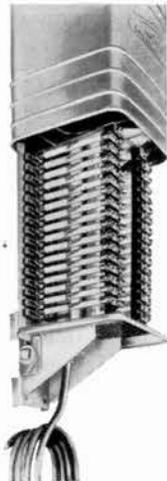
These terminals are ruggedly made of non-corrosive alloys which insure a life equal to that of the cable itself.

The B-27 cable terminal is equipped with No. 27L-5-amp. ceramic fuses.

The B-56 cable terminal is equipped with No. 56 fibre 5-amp. asbestos-lined fuses.

The B-55 cable terminal is equipped with No. 55L 5 ampere ceramic fuses.

Supplied with 7-foot, No. 22 AWG stub. Equipped with P495 Sawtooth Discharge Blocks and P1384 Carbons.



Capacity	Stock No.	Height Overall	Stub Data	Ship. Wt. Ea. (Lbs.)
11 Pair	(890551)	14 1/2"	Less Stub	11
11 Pair	(890552)	14 1/2"	With 7' Stub	16 1/2
16 Pair	(890553)	17 1/2"	Less Stub	13
16 Pair	(890554)	17 1/2"	With 7' Stub	19 1/2
26 Pair	(890555)	23 3/4"	Less Stub	18 1/2
26 Pair	(890556)	23 3/4"	With 7' Stub	27

COOK TYPE S-20 POLE CABLE TERMINAL AND PROTECTOR MOUNTING



The Type S-20 Pole Cable Terminal and Protector Mounting is a combined protected and unprotected all steel cable terminal. Type H Protector Mounts may be installed as required.

The self soldering nozzle is located close to the pole to bring the cable behind the subscribers' drops. The mounting base is open at the back adjacent to the pole. A separate mounting bracket shaped to fit the pole provides easy installation without gaining the pole.

Drop wires enter the terminal through individual insulating knockout holes.

Metal fanning strips with insulating bushings are mounted in front of the cable chamber. All metal parts are non-corrosive. The gasketed sealing plate of the cable chamber is easily removed from the front.

Terminal Less Stub

Cat. No.	Stock No.	Capacity	Dimensions	Ship. Wt.
506-1800	(890515)	6 pairs	12"x9"	11 lbs.
506-1820	(890517)	11 pairs	15 1/2"x9"	15 lbs.
506-1840	(890519)	16 pairs	19"x9"	18 lbs.
506-1870	(890521)	26 pairs	28"x9"	23 lbs.

Terminal With Stub

Cat. No.	Stock No.	Capacity	Dimensions	Ship. Wt.
506-1805	(890516)	6 pairs	12"x9"	18 lbs.
506-1825	(890518)	11 pairs	15 1/2"x9"	23 lbs.
506-1845	(890520)	16 pairs	19"x9"	28 lbs.
506-1875	(890522)	26 pairs	28"x9"	35 lbs.

**Cook Type S-6
PROTECTED CABLE TERMINALS**

For terminating lead covered cable.

Cable chamber has removable face plate fastened with machine screws and gasket sealed. Self-soldering nozzle.

Cable wires, set in rubber blocks, are carried from inside of cable chamber through hollow brass studs and soldered to the tinned end of the stud.

Spring phosphor bronze fuse clips hold the fuses under constant tension.

The S-6 is equipped with Cook A-7 wood fuses of 5 amperes, which blow at rating. The lightning arresters consist of Tru-Gap Dischargers and hard grooved carbons which are held under permanent tension by separate phosphor bronze springs.

On the drop side, both screw and washer and solder connections are provided. Diameter 9 inches.



Terminal With Stub

Cat. No.	Stock No.	Capacity	Height In.	Ship. Wt. Pounds
112-1706	(890483)	11 pair	14	27
112-1709	(890485)	16 pair	17 1/2	30
112-1712	(890487)	26 pair	26 1/2	38
112-1715	(890489)	51 pair	39 1/2	82
112-1716	(890491)	102 pair	79	164

Terminal Less Stub

Cat. No.	Stock No.	Capacity	Height In.	Ship. Wt. Pounds
112-1700	(890482)	11 pair	14	16
112-1701	(890484)	16 pair	17 1/2	19
112-1702	(890486)	26 pair	26 1/2	27
112-1703	(890488)	51 pair	39 1/2	65
112-1704	(890490)	102 pair	79	130

Reliable Type "RP"

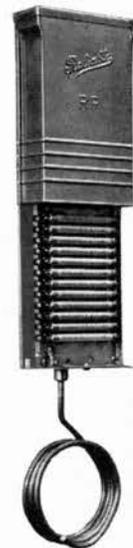
PROTECTED CABLE TERMINALS

The Reliable RP is a six pair reversible protected cable terminal that is compactly designed and made of corrosion resistant aluminum alloy throughout, resulting in a very light-weight but substantial structure. Insulation is molded rubber phenolic.

The Reliable RP is designed to meet requirements for a small protected terminal of high quality and fine workmanship. It is equipped with P495L self-cleaning saw-tooth discharge blocks and P663 carbons. Made in two types with two standard terminal fuses.

Over-all height, 11 inches. Stub, 6 feet. Shipping weight, 10 3/4 pounds.

Cat. No.	Stock No.	Capacity	Fuse
RP-27	(890550)	6-pr.	27L 5-amp.
RP-56	(894900)	6-pr.	56 5-amp.



Revised 7-15-55

STRAND TYPE CABLE TERMINALS, PROTECTED OR UNPROTECTED

The new Strand Cable Terminals are offered in 11 pair, 16 pair and 26 pair for terminating either plastic or lead sheathed cable. These can be mounted out in the open or on a wall or pole, wherever it is easiest to work. Can be ordered with or without protection.

Reliable Type "ST" POLE MOUNTED CABLE TERMINAL Protected or Unprotected



The ST-26 type terminal shown here is designed for vertical mounting on a pole or building; otherwise it is similar to the Strand Terminals Type ST-11 and ST-16 described on a following page. This terminal is furnished with a detachable mounting bracket, for pole or surface mounting. Can be used with either lead sheathed or plastic insulated cable. If desired, the cable stub can be reversed so that it will extend from the bottom of the terminal housing. This can be done by simply reversing the housing on the bracket and sliding the cover on from the top.

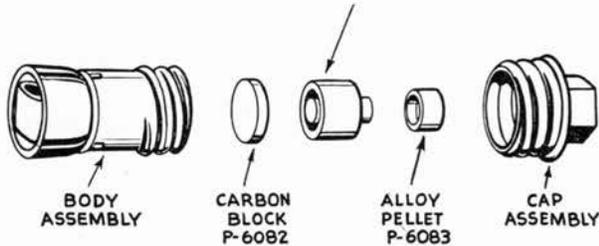
Reinforced cast resin binding post terminal blocks.

Reliable ST-26 for Pole or Wall Mounting

Catalog No.	Stock No.	Description
ST-26	(895782)	26 pr. unprotected
ST-26P	(895776)	26 pr. protected (cable)
ST-26PS	(895779)	26 pr. station protection

PROTECTOR UNITS FOR "ST" TERMINALS

P-5841 INSULATOR-CARBON BLOCK FOR NO. 504
P-5827 INSULATOR-CARBON BLOCK FOR NO. 506



The 506 protector unit is designed for cable protection and is used in the ST-11P, ST-16P and ST-26P terminals. This unit provides air gap carbon block and secondary metallic grounding protection. The carbon block air gap is set at .006". These units are screwed together, giving weatherproof carbon block protection. The No. 506 protector unit has a blue painted cap and a blue insulator carbon block. Standard package, 10.

The No. 504 protector units are used in the PS type terminals when station protection is desired and in the 700 and 800 fuseless station protectors. The 504 protector units are identical to the 506 units except that the 504 has a .0035" carbon block air gap, a plain cap and a white insulator carbon block. Standard package, 10.

Protector Units

Catalog No.	Description
504	Used with fuseless station protector & PS ST terminals
506	Used with ST terminals

Replacement Parts

P-6082	Carbon block common to both 506 and 504 protector units
P-6083	Alloy pellet common to both 506 and 504 protector units
P-5841	Insulator-carbon block for No. 504 unit
P-5827	Insulator-carbon block for No. 506 unit

RELIABLE STRAND CABLE TERMINALS



ST-11P Terminal, Strand supported

These cable terminals, for strand, pole and wall mounting, employ reinforced cast resin binding post terminal blocks with a choice of lead sheathed, paper insulated, or plastic sheathed, plastic insulated cable stubs. These terminals are suitable for use in cable systems maintained under gas pressure. The cast aluminum alloy housings of the 11 and 16 pair terminals are equipped with stub cable entrance holes at opposite ends for reversal of stubs. The stub entrance is sealed with a ring grommet; the opposite entrance with a solid grommet. The two entrances also provide practical means for connecting a plastic and a lead cable, where direct splicing is not desirable.

The Reliable protected strand terminal is equipped with No. 506 protector units.

Protected Terminals

Cat. No.	Stock No.	Capacity
ST11P	(895774)	11 pr. protected (cable)
ST16P	(895775)	16 pr. protected (cable)
ST11PS	(895777)	11 pr. protected (station)
ST16PS	(895778)	16 pr. protected (station)

Unprotected Terminals

Cat. No.	Stock No.	Capacity
ST-11	(895780)	11 pr.
ST-16	(895781)	16 pr.

STROMBERG-CARLSON

RELIABLE STRAND CABLE TERMINALS (CONT.)

Outstanding Features



Strandwise used to deadend the supporting messenger

- (1) One-screw mounting clamps with snub tightening produce secure locking of the mounting straps.
- (2) Simple cover closure mechanism provides weathertight enclosure.
- (3) Bronze binding post terminal screws molded in high dielectric, low moisture-absorbing material.



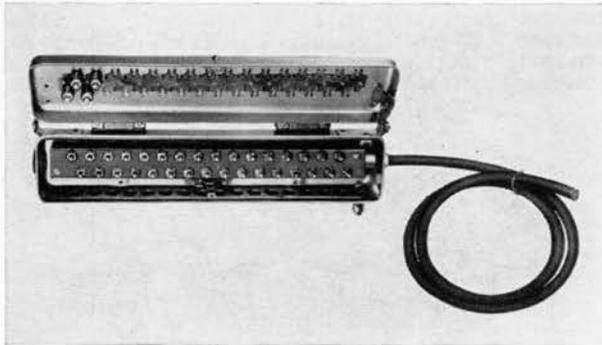
Mounted on wall

- (4) The carbon protector blocks in threaded housing provide moisture-proof air gap.
- (5) Cable protection is not lost when cover is open.

Mounting Brackets

Brackets for surface mounting Reliable strand terminals are available for 11 and 16 pair sizes.

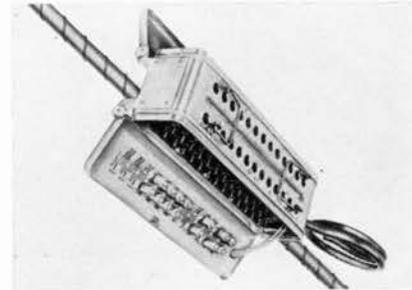
COOK STRANTERM TERMINALS (Strand-Mounted)



16 pair Stranterm, open to show protectors

For lead or plastic cable installations. All terminals are supplied with 3½-foot, 24-gauge cable stubs, which are soldered to heavy Everdur studs imbedded in a special unsaturated Polyester thermal setting plastic with fibre-glass filler, which provides indestructible, moisture-proof, gas-tight potting of the terminal core.

Additional flexibility is provided in that the 11- and 16-pair cable stub and core are interchangeable in the standard terminal housing. Left and right hand cable entrance to the terminal box is also possible.



Cook 26 pair Stranterm, strand mounted

COOK NO. 452-500 SOCKET WRENCH



For 3/8" nut, on protectors.
Catalog No. 452-500
Stock No. (890541)

MINIGAP SOCKET WRENCH



Catalog No. 352-1252

Combination socket wrench which provides an easy means for removing or inserting the Minigap arresters, as well as the rapid termination of drop wires to binding post studs.

Stock No. 895795

24 Ga. Lead Stub Strandterm

Cat. No.	Stock No.	Capacity	Length Stub	Protection
352-1211	(895326)	11 Pr.	3½'	Less Protectors
352-1240	(895327)	11 Pr.	3½'	With Protectors
352-1216	(895328)	16 Pr.	3½'	Less Protectors
352-1241	(895329)	16 Pr.	3½'	With Protectors
352-1360	(895330)	26 Pr.	5½'	Less Protectors
352-1361	(895331)	26 Pr.	5½'	With Protectors

24 Ga. Plastic Stub Strandterm

Cat. No.	Stock No.	Capacity	Length Stub	Protection
352-1250	(895333)	11 Pr.	3½'	Less Protectors
352-1336	(895334)	11 Pr.	3½'	With Protectors
352-1251	(895335)	16 Pr.	3½'	Less Protectors
352-1337	(895336)	16 Pr.	3½'	With Protectors
352-1362	(895337)	26 Pr.	3½'	Less Protectors
352-1363	(895338)	26 Pr.	3½'	With Protectors
352-1440	(895794)	Detachable Mounting Bracket for Wall or Pole Mounting of 11 and 16 pair Stranterm for either lead or plastic stub terminal.		

COOK MINIGAP PROTECTOR



Has carbon-to-carbon gap, instantaneous acetate burn out, and is self-grounding.

Cat. No.	Stock No.	Description	Use
41-290	(895332)	Stranterm and PLX loop-type cable terminals	
41-300	(897236)	Threaded type for general application	
41-310	(895745)	For PLX and RDX cable terminals	
41-350	(895800)		

COOK MYTIGAP PROTECTOR



Cook Mytigap arrester is a lightning arrester, surge and power-cross protector all in one with self-restoring operation after functioning.

Cat. No.	Stock No.	Description
41-450	(897238)	Snap-in type for Cook strand terminals
41-474	(897239)	Screw-type for general application

COOK PLX UNPROTECTED TERMINAL FOR PLASTIC COVERED CABLE



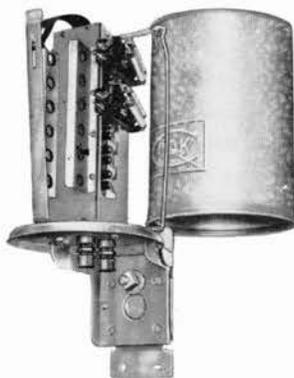
This terminal is designed to make installation easy by employing the cable loop principle. No stubbing, no splicing, no potting required.

Heavy galvanized steel frame, welded zinc cover, and XB bakelite face plate with Everdur studs. The front of the unit opens down for working convenience.

Catalog No.	Stock No.	Cable Size	Ship. Wt.
452-1106	(895245)	6 Pair	8 lbs.
452-1111	(895246)	11 Pair	10 lbs.
452-1116	(895247)	16 Pair	10 lbs.
452-1126	(895248)	26 Pair	13 lbs.

COOK TYPE S-20V PROTECTED

TERMINAL FOR PLASTIC CABLE



The S-20V Protected Cable Terminal was designed expressly to serve the needs of telephone companies using plastic cable.

The S-20V Terminal, when used with plastic cable is manufactured with two cable entrances, each of which is arranged to take any size of compression coupling from 6 pair to 51 pair. When only one cable entrance is required, a standard pipe plug can be inserted to close the other entrance.

The terminals can be ordered without couplings — and the couplings and pipe plug can be ordered later to conform to the specific cable layout.

This method not only simplifies the installation of the cable, but also provides the maximum and economical use of the cable terminal.

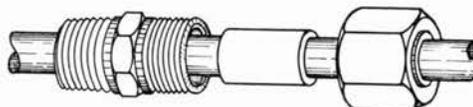
When plastic cable additions are required at a later date, the terminals do not have to be removed from the poles to increase or reduce the compression couplings size in order to conform to the revised cable layout.

These features, when combined with the flexibility of the H-20 Protector units, make the S-20V Protected Pole Cable Terminal the most versatile terminal for the telephone industry.

S-20V Cable Terminal

Cat. No.	Stock No.	Pairs	Dimen.	Ship. Wt.
506-2330	(895043)	6	12" x 9"	11 lbs.
506-2331	(895044)	11	15 1/2" x 9"	15 lbs.
506-2332	(895045)	16	19" x 9"	18 lbs.
506-2333	(895046)	26	28" x 9"	23 lbs.
506-2334	(895047)	51	39 1/2" x 9"	45 lbs.

COOK COMPRESSION COUPLINGS



Used with S-20V Protected Cable Terminals so that any size cable—from 6 pair to 51 pair—may be connected. Couplings can be ordered and inserted after the specific cable requirements have been determined.

Cat. No.	Stock No.	Cable Dia.		Plastic Cable	
		Max.	Min.	#22 Ga.	#19 Ga.
506-630	(895048)	1/2"	7/8"	11 pr.	6 pr.
506-631	(895049)	5/8"	1 1/2"	16 pr.	11 pr.
506-632	(895050)	3/4"	5/8"	26 pr.	16 pr.
506-633	(895051)	1"	7/8"	51 pr.	26 pr.
506-629	(895052)	1" Pipe Plug, used when only one compression nozzle is required.			

Cook Type "H" DUAL GAP PROTECTOR UNIT



The Type H Dual Gap Protector is assembled on a strong non-absorbent Bakelite base. Phosphor bronze fuse and arrester clips have special incisor jaws which bite into the fuse ends to insure minimum connection resistance. It is utilized on the RO mounting bracket, S-20 and S-20V terminals, and type "U" protector.

Tru-Gap Discharger insures continued protection should fuse operation disconnect the primary arrester from live leads.

Catalog No.	Stock No.	Type Fuse
506-1850	(890186)	A-7
506-1851	(890187)	A-9

**TYPE UX CABLE TERMINAL
(Underground Unprotected)**

For mounting in manholes for termination and distribution of underground cable systems.

Designed to facilitate installation and service in manhole termination and distribution of underground cable systems, the Type UX Cable Terminal combines many features which have made it popular with telephone men everywhere.

The lateral cable enters through a well in the cable chamber into which solder is puddled so that a strong moisture-proof connection is made. The terminal may be mounted with cable stub out of top or bottom.

The terminal provides for service outlets. These outlets in the sides of the terminal are sealed with a brass pipe plug having a 3/8" pipe thread. Lead sheath of instrument distribution cables are terminated in heavy brass stuffing boxes set in the service outlets. Stuffing boxes are made to accommodate lead cable of 3/8" diameter and are sold separate from the terminal. The number required should be stated.

The face plate is made of a single piece of molded bakelite. Bosses moulded on the face of the bakelite increase the surface distance between stubs.

Heavy studs with square heads are set in the bakelite so they cannot turn. Terminal is furnished with or without cable stub attached.

The cover of the Type UX fits the box so as to compress a gasket and make a water tight seal.

Catalog No.	Stock No.	Description	Ht. In.	Width In.	Net Wt.
512-3702	(890508)	6 pair less stub	7 3/4	6	12
512-3703	(890509)	6 pair with stub	7 3/4	6	20
512-3700	(890510)	11 pair less stub	11 1/2	6 1/2	20
512-3701	(890511)	11 pair with stub	11 1/2	6 1/2	30
512-3705	(890512)	16 pair less stub	11 1/2	6 1/2	22
512-3706	(890513)	16 pair with stub	11 1/2	6 1/2	31
452-3750	(890514)	Stuffing Boxes	---	---	---



Type UX

TYPE XB CABLE TERMINAL

The Type XB Unprotected Cable Terminal embodies many important advancements in construction, wiring features, maintenance savings and insulation characteristics the more important of which are detailed as follows:

A patented bakelite face plate and insulating fanning strip moulded in one piece. The raised stud mountings eliminate surface leakage.

Sturdy, non-corroding Everdur studs have tinned solder shoulders. Studs cannot twist off and are firmly embedded in the bakelite mounting plate, correctly positioned for convenient wiring.

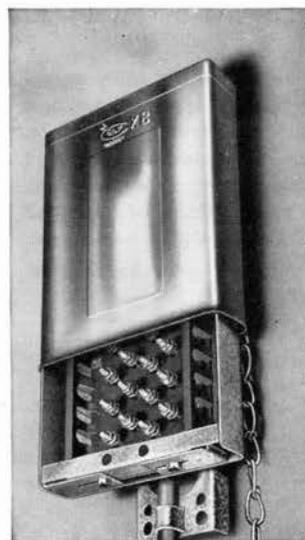
Patented cable entrance and cable holding sleeve provide secure and tight cable joint.

Compound is completely filled by an exclusive moisture proofing process that insures against shorts and grounds by permanently positioning the cable pairs.

Heavy reversible zinc hood permits mounting with stub from either top or bottom.

Terminals are furnished either with or without 6 ft., 22 gauge cable stub.

Catalog No.	Stock No.	Description	Ht. In.	Width In.	Net Wt.
452-3502	(890492)	6 pair less stub	9	6	5
452-3506	(890493)	6 pair with stub	9	6	8
452-3503	(890494)	11 pair less stub	12 1/2	7	7
452-3509	(890495)	11 pair with stub	12 1/2	7	15
452-3504	(890496)	16 pair less stub	12 1/2	7	7
452-3512	(890497)	16 pair with stub	12 1/2	7	15
452-3505	(890498)	26 pair less stub	15 1/4	7 3/8	11
452-3515	(890499)	26 pair with stub	15 1/4	7 3/8	22
452-283	(890500)	Hood, 11 or 16 pr.	---	---	---
452-189	(890501)	Hood, 26 pair	---	---	---



Type XB

Revised 1-1-57

Reliable Type "RU" UNPROTECTED CABLE TERMINALS



This reversible unprotected cable terminal, with ribbed aluminum alloy sliding cover, protects terminal connections from weather and permits installation with stub at top or bottom. Chamber filled and sealed with Reliable Cable Compound, when supplied with stub.

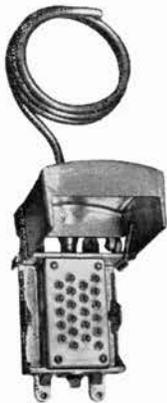
The flat fanning plate simplifies wiring, and in combination with a cover which surrounds the wires at the back, makes an unusually weatherproof terminal, and also gives the lineman more convenient working space.

Detachable mounting bracket simplifies installation.

Equipped with gravity catches to hold cover in raised position and cover chain. Silicon bronze screws — free from season cracking — are mounted on bosses to increase surface leakage distances, and locked in panels of highest grade molded insulation.

Capacity	Stock No.	Height Overall	Stub Data	Shipping Wt. Ea. (Lbs.)
6 Pair	(890559)	11"	Less Stub	4
6 Pair	(890560)	11"	With 6' Stub	7
11 Pair	(890561)	11"	Less Stub	4½
11 Pair	(890562)	11"	With 6' Stub	7½
16 Pair	(890563)	12½"	Less Stub	5
16 Pair	(890564)	12½"	With 6' Stub	9½
26 Pair	(890565)	16"	Less Stub	8
26 Pair	(890566)	16"	With 6' Stub	14

Furnished with 6 ft. of No. 22 AWG double wrap paper insulated cable unless otherwise specified.



Reliable Type "GR" UNPROTECTED CABLE TERMINALS

The GR is a cast aluminum alloy unprotected cable terminal. It is provided with a gravity cover that is balanced to shut tight. Equipped with porcelain faceplate, grooved in back to prevent turning of binding posts. Silicon bronze screws. Chamber filled and sealed with Reliable Cable Compound.

Cover and cable of corrosion resistant aluminum alloy.

Capacity	Stock No.	Height Overall	Stub Data	Shipping Wt. Ea. (Lbs.)
11 Pair	(890542)	8½"	Less Stub	5½
11 Pair	(890543)	8½"	With 6' Stub	9½
16 Pair	(890544)	11"	Less Stub	9
16 Pair	(890545)	11"	With 6' Stub	13
26 Pair	(890546)	15½"	Less Stub	12½
26 Pair	(890547)	15½"	With 6' Stub	16½

Furnished with 6-foot, No. 22 AWG stub, unless otherwise specified. When ordering, specify whether required with cable stub at top or bottom.

COOK HY-CAP POWER CROSS PROTECTOR



Catalog No. 501-40

These Protectors are used in the event of contact between the power and the communication circuits and also give considerable protection from lightning damage.

An alloy cover, 3 carbon electrodes mounted on a porcelain base, 3 copper wire leads and a bracket for quick, easy mounting make up the heavy duty Hy-Cap Power Cross Protector.

Stock No. (895028)

COOK 5-CIRCUIT POWER CROSS PROTECTOR



Serving the same general purpose as the smaller HY-CAP Protector, this unit provides a single assembly for 5 circuits, to be mounted on a 10-pin arm requiring only a single ground wire. Easily installed with only three mounting screws and five pigtail connections.

Electrodes are equipped with fusible elements as a protection against excessive power cross over extended periods.

Catalog No. 501-50 Stock No. (895251) Ship. Wt. Each 6 lbs.

RELIABLE NO. 20HVP, 30HVP HIGH VOLTAGE PROTECTOR

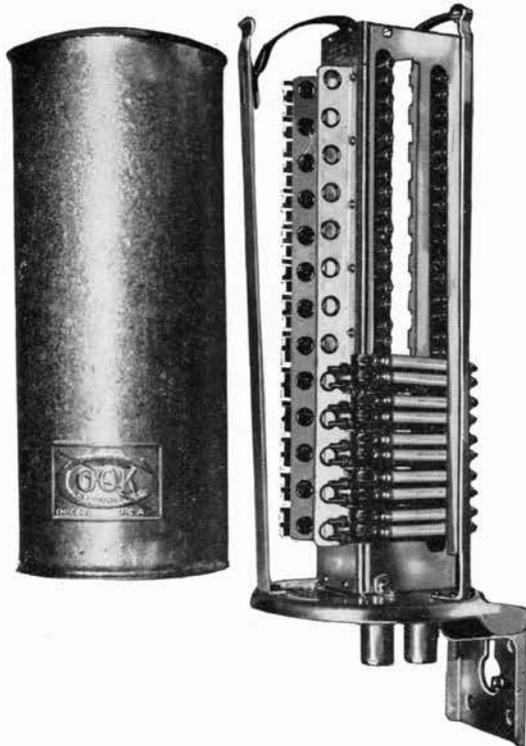


A high voltage, high current unit for use when communication lines share poles with power conductors, and at power crossings. The unit consists of three heavy duty carbon electrodes mounted on a steatite ceramic base. The base is attached to an aluminum mounting bracket and covered with a weathertite drawn aluminum cover.

The 30HV Protector has an air gap breakover of approximately 3,000 volts AC, RMS. The 20HV has a breakover of approximately 2,000 volts.

Cat. No.	Approx. Air Gap Breakover	Stock No.	Ship Wt. Each
30 HVP	3000 Volts	(895053)	1 ¼ lbs.
20 HVP	2000 Volts	(895206)	1 ¼ lbs.

TYPE UA-20 AERIAL TO UNDERGROUND TERMINAL AND PROTECTOR MOUNTING



Unique cross connection features insure high efficiency and maximum utility of cable. Subscribers' drops can be taken out of the terminal without disturbing the protection and testing features. Protection is provided by the Dual Gap H-20 Trans-Mount Protector Units.

The UA-20 Cable Terminal is used at the junction of aerial and underground cables.

The UA-20 closely resembles the design of the S-20 Pole Cable Terminal. The UA-20 is equipped with two entering nozzles and the cable chamber is equipped with terminating stubs for each cable. Protection is provided by the Dual Gap H-20 Protector Unit which connects each aerial cable pair with its adjacent underground pair.

By removing the fuses the overhead and underground cables are quickly disconnected, permitting testing in either direction. Special test clips with fuse clip adapters and cords are furnished. Service is reestablished by re-inserting the fuses into the heavy spring clips, which insures constant electrical contact and no resistance loss, an important feature in toll cable transmission.

Cat. No.	Stock No.	Capacity	Ship. Wt.
506-1900	(894749)	11 pair	17 lbs.
506-1902	(894751)	16 pair	22 lbs.
506-1904	(894753)	26 pair	28 lbs.
506-1906	(894755)	51 pair	50 lbs.
506-1866	(894757)	H-20-20 Protector Mounting with A-7 Fuse, for use with any UA-20 Terminal.	

Terminal With Stub			
Cat. No.	Stock No.	Capacity	Ship. Wt.
506-1901	(894750)	11 pair	31 lbs.
506-1903	(894752)	16 pair	35 lbs.
506-1905	(894754)	26 pair	42 lbs.
506-1907	(894756)	51 pair	84 lbs.

"RUG" UNDERGROUND CABLE TERMINAL



This is a Reliable Unprotected Cable Terminal, especially for underground use. It is reversible, and can be made gastight (extra charge) if so ordered.

Has a rugged cast iron housing and cover, both thoroughly hot galvanized.

Equipped with brass plugs which may be removed to insert solder dipped brass stuffing boxes, available separately.

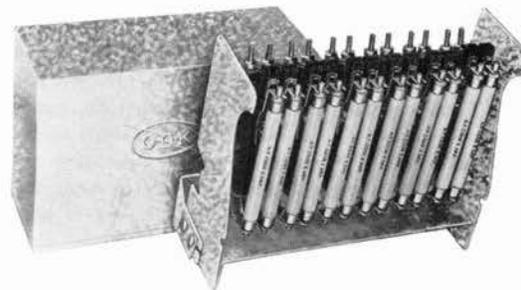
Terminal has a detachable mounting bracket.

Light in weight, with a bakelite face plate with locked silicon bronze binding posts.

Extra length cable studs furnished at additional charge.

Capacity	Stock No.	Height Overall	Stub Data	Shipping Wt. Ea. (Lbs.)
11 Pair	(890572)	8 1/4"	With 6' Stub	22
11 Pair	(890573)	8 1/4"	With 15' Stub	26
16 Pair	(895805)	10 1/2"	With 6' Stub	32
16 Pair	(895806)	10 1/2"	With 15' Stub	37

COOK TYPE "U" UTILITY PROTECTOR



With the type "U" Utility Protector small cables and open wires, up to 6 pairs per unit, can be protected at railroad crossings, power line crossovers, and parallels.

It is especially valuable for the protection of subscribers drops where several instruments are closely grouped.

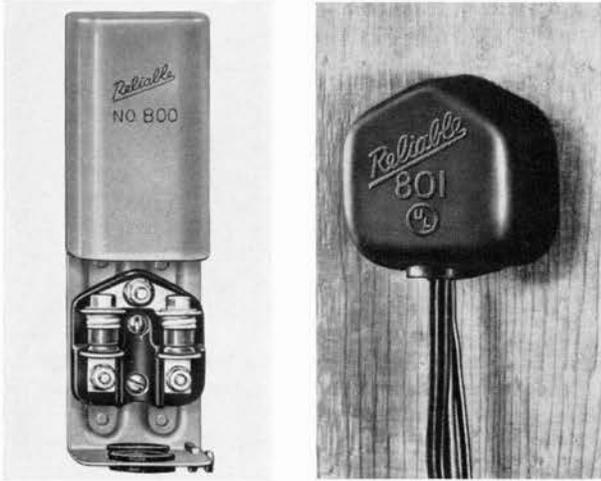
The Type "U" is a compact, convenient unit, furnishing the utmost in versatile utility. It consists of a sturdy steel hot galvanized base fitted with non-corrosive studs on which as many as 6 Type "H" Protector Units may be mounted. A heavy galvanized hood and insulated entrance holes in the base make the entire unit insect- and water-proof.

Catalog No. 517-1722		Stock No. (895796)
Catalog No. 517-1	(Less Protector)	Stock No. (895797)
Catalog No. 506-1850	(Protector Mount)	Stock No. (890186)

10q • PROTECTORS

Revised 1-1-57

RELIABLE 700 AND 800 FUSELESS PROTECTORS



No. 800 and 801 for Outdoor Installation

Reliable's fuseless station protectors for inside use, and weather-proofed for out-of-doors mounting, meet the requirements of the 1953 national electric code (see Article 800). Reliable No. 700 and No. 800 protectors are approved and listed by UL Laboratories, Inc.

Catalog No. 700 for Indoor use consists of a molded plastic base with bronze terminal and grounding posts, stainless steel ground plate, mounting two No. 504 protector units.

Catalog No. 800 for Outdoor use consists of an aluminum bracket and weatherproof cover, containing one No. 700 protector. The bracket has two neoprene grommets in the base for wire entrance and exit. The back of the bracket has four small knockouts for use in mounting — no open holes or slots for the entrance of water or bugs. The cover is fastened with a stainless steel screw.

504 protector unit is a self-contained weatherproofed screw-in type unit. Two carbon electrodes are spaced approximately .0035" to provide an air gap arrester. A low melting point alloy pellet is used as a fusible spacer to provide metallic grounding in the event of heavy current discharge. Static discharges will not cause metallic grounding, except with heavy or repeated light discharges, but power contact with replaceable elements are available for the No. 504 protector unit.

Catalog No.	Stock No.	Standard Pkg.	Ship. Wt. Per C
700	(895770)	2	27
800	(895771)	2	40
801	(896057)	2	31
		(fuseless station protector)	
801A	(896060)	2	31
		(fuseless cable protector)	
504	(895772)	10	40



No. 700 for Indoor Use

COOK "INTERCEPTOR" FUSELESS PROTECTORS



No. 501-150 for Outdoor Installation

This new, compact Fuseless Protector for indoor or outdoor mounting uses the Cook Minigap. It is ideal for open wire pole or cross arm installation ahead of the subscriber drop-wire where protection is desirable for joint occupancy with power circuits.

The Interceptor is designed to meet the Underwriters' "Standard for Protectors for Communication Circuits." Consequently, both Minigap arresters will pass, simultaneously, a current of 30 amperes for 15 minutes without destruction.

For indoor mounting, Catalog No. 501-165, the Interceptor consists of a moulded Bakelite base with heavy Everdur terminal and ground studs and two No. 41-350 Minigap arresters.

For outdoor mounting, Catalog No. 501-150, the Interceptor is enclosed in an all-metal, corrosion-resistant, weatherproof housing with grommetted bracket.

Minigaps are keyed to fit the individual protector air gap or voltage breakdown requirements so as to prevent incorrect installation with subsequent excessive maintenance costs.

Each arrester consists of two carbons with a thermoplastic acetate dielectric providing an air gap, which in the event of heavy or prolonged discharges will allow contact between the discharge blocks.

Catalog No.	Stock No.	Std. Pkg.	Ship Wt./C
501-150	(895798)	25	52
501-165	(895799)	25	30
41-350	(895800)	Minigap Protector for use with Cook Fuseless Protectors	



No. 501-165 for Indoor Use

STROMBERG-CARLSON

RELIABLE OUTDOOR STATION PROTECTORS



Reliable No. 2000 station protectors afford numerous advantages. The high quality flexible neoprene base has integral wire entrance sealing slots and, with its tapered design, closes the cover so snugly that it is truly weathertight and insect tight.

The fuse mount is molded of high quality phenolic. Its design provides full insulation for the wiring.

It is unnecessary to remove either the fuses or the bracket to wire and mount the protector. All binding posts are on the side opposite the fuses and are clearly marked.

The fuse mount is reversible by removing one screw.

All metal parts are non-rusting; either bronze, plated bronze, aluminum or stainless steel. Cover and mounting bracket are aluminum. With Underwriters approved fuses (Patented No. 2,532,078) and Reliable P-495 self-cleaning sawtooth discharge blocks, the Catalog Numbers 2000 (with No. 55L nutted end fuses) and 2000H (with No. 77L clip type fuses) are UL approved Station Protectors.

Cat. No.	Stock No.	Fuse No.	Amp.	Fuse Body	Discharge Blocks	Carbon
*2000	(897105)	55L	7	Ceramic	P-495	P-1384
*2000C	(897108)	55L	7	Ceramic	Gnd Type	P-663
*2000H	(897106)	77L	7	Ceramic	P-495	P-1384
*2000F	(897107)	27L	7	Ceramic	P-495	P-1384

Dimensions: 7" x 3" (3½" with brackets).

*Approved and listed by Underwriters' Laboratories, Inc.

Shipping weight, 110 lbs. per hundred.

COOK O9U TELEPHONE PROTECTOR



A single circuit protector for both indoor and outdoor use.

The body of the Type O9U is a single piece of heavy white glazed, low absorbent porcelain. Fuse and lightning arrester clips are of phosphor bronze. The lightning arresters consist of two Tru-Gap dischargers, two flat carbons mounted on a copper ground strip, and two A9U 7-ampere lavite fuses. Each protector is

equipped with a 40 durometer Neoprene gasket to keep out insects, dust, snow, etc. A removable locking device is attached to the base of each unit in order to secure the hood. Over-all dimensions are: 6" long, 2¼" wide and 1¾" deep. This protector is listed as standard by Underwriters Laboratories.

Catalog No. 473-10

Stock No. (895287)

Type "O" Sub-Station Protectors

These protectors are of the same basic design as the Type O9U shown above except for length and type of fuses.

Cat. No.	Stock No.	Description	Length	Wt. Lb.
471-1581	(890177)	0-12 with A-12 fuses	4½	1½
472-1582	(890178)	0-7 with A-7 fuses	6¼	2
473-1583	(890179)	0-9 with A-9 fuses	6¼	2
474-1584	(890180)	0-16 with A-16 fuses	6¼	2
481-1585	(890181)	0-44 with A-44 fuses	4½	1½
475-1586	(890182)	0-52 with A-52 fuses	6¼	2

COOK RO-9U STATION PROTECTOR



Type RO-9U

Supplied less Protector Units

The Type R Sub-Station Protector Mounting for outside mounting on post, wall, etc., is equipped with bracket and heavy zinc weatherproof hood. The Type R represents something new in sub-station protector design. The heavy steel bracket which replaces the outmoded, brittle porcelain member will appeal to those telephone engineers and maintenance men who want equipment that can take quick, rough handling and subscriber abuse without the danger of breakage.

The high insulating value and great tensile strength of the quality moulded bakelite used in the Type H Mount gives the Type R Sub-Station Protector Mounting higher resistance to breakage from the shocks of severe electrical discharges, and greater physical strength and durability.

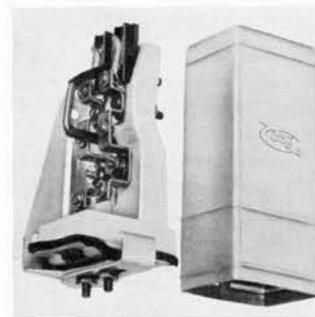
Type R Sub-Station Protector Mountings are equipped with heavy studs for connecting drop wires and ground. All structural parts and the hood and bracket are grounded. The Type R uses the Type H Protector Mounts thus gaining all of the advantages of the Type H features.

Type R Sub-Station Protector Mountings are equipped with heavy studs for connecting drop wires and ground. All structural parts and the hood and bracket are grounded. The Type R uses the Type H Protector Mounts thus gaining all of the advantages of the Type H features.

Type R furnished less Protector Units

Catalog No.	Stock No.	Type	Dimensions	Net Wt.
516-1	(890184)	Outdoor	7½x2½x3	1¾ Lb.

COOK FOUR PARTY LINE JUNCTION BOX



The Four Party Line Junction Box is for terminating and protecting the cable pair drop, the cable pair, and distributing four party line drops. It is easy to install and all drop wires are doubly protected when used in conjunction with Cook sub-station protectors.

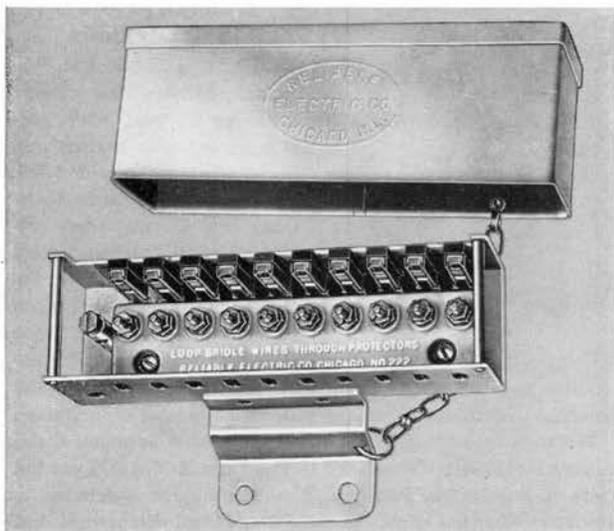
Consists of a porcelain base, steel mounting bracket and zinc non-corrosive cover. The circuit consists of ground stud, a pair of true gap lightning arresters, cable drop studs and heavy busses each equipped with four new screw type terminals.

Catalog No.	Stock No.	Wt. Each
501-7400	(895018)	1½ lbs.

12q • PROTECTORS

Revised 7-15-55

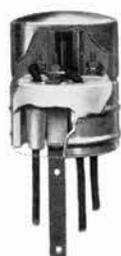
NO. 222 AND 5503 OUTDOOR ARRESTERS



The No. 222 ten wire crossarm arrester effectively drains static from exposed lines. It is recommended for use with unprotected cable terminals where open wire or drop wire leads are too long to be left unprotected. Entrance slots at the base of this outdoor arrester permit bridle wires to loop through on the way to the terminal. Equipped with P495 Discharge Blocks and P663 Carbons. Size 8 1/4" x 2 3/8" x 4 1/2". Shipping weight 4 lbs.

Cat. No.	Stock No.
222	(890212)
5503	(895802)

Same as above except less Protector Blocks and Binding Post. Use with 5-Pr. Rural Distribution Wire. For 6 Pr. Termination, also use No. 402RR (below).



TWO WIRE CROSSARM ARRESTER

The No. 402RR dry spot lightning arrester is equipped with self-cleaning sawtooth discharge blocks which drain the line of static without danger of leaving accidental ground on line.

Equipped with P495L Discharge Blocks and P663 Carbons. Size 8 1/2" x 3" x 3". Shipping weight 2 lbs.

Cat. No. 402RR Stock No. (890214)

DISCHARGE BLOCKS



These discharge blocks are ideal for use in station protectors and arresters, crossarm arresters, protected cable terminals and central office protectors. Listed as standard by Underwriters' Laboratories. Either of these discharge units will assure adequate long term protection with the minimum of maintenance.

Reliable P-495	Stock No. (890262)
Cook 41-1907	Stock No. (890194)

TYPE 7 HIGH POTENTIAL LIGHTNING ARRESTER Outdoor Pole Type Arrester Ten Wire Capacity



The Type 7 High Potential Lightning Arrester provides lightning protection and static drain for 5 pairs of open-wire circuits. This arrester should also be used for the protection of drop wires and cables terminating in unprotected cable terminals where atmospheric conditions require constant static drain. Insulation and fanning strip are single-piece moulded Bakelite. Non-corrosive metal hood, Everdur studs, and galvanized mounting bracket assure satisfactory service and long life. Phosphor bronze springs clips accommodate non-grounding, Tru Gap lightning dischargers.

Type 7 Lightning Arrester Complete With Dischargers

Cat No.	Description	Length Inches	Width Inches	Depth In.	Net Wt. Lb.
371-2200	No. 7 Arrester	7 1/2	2	5	3

Stock No. (890192)

TYPE 1 HIGH POTENTIAL LIGHTNING ARRESTER For Station Protection or Static Drain



The Type 1 High Potential Lightning Arrester can be used for either station protection or static drain on long rural circuits where lightning is the principal hazard. The long life and dependable service rendered by this protector is insured by patented non-grounding Tru Grap dischargers, grounded non-corrosive Everdur cover, and heavily galvanized mounting bracket.

This device is also recommended as an adjunct to the line wire side of the sub-station protector for grounding heavy potentials at the pole in areas where power crosses, joint pole occupancy, and heavy discharges present constant hazards.

Type 1 Lightning Arresters With Dischargers

Cat. No.	Stock No.	Length In.	Width In.	Depth In.	Net Wt. Lb.
501-7800	(890188)	3 1/2	2 1/2	2 1/2	3 3/4

STROMBERG-CARLSON

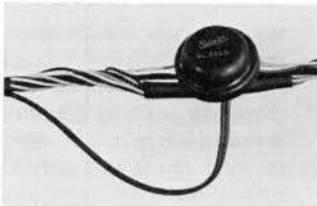


TESTERM DROP WIRE CONNECTOR

The Cook Testerm is used to connect subscriber drops to open wire. Mounted on the cross-arm, it provides a dry-spot connection for terminating drop wires. Tie wires terminate on two 12-24 studs set in porcelain. Drop wires attached to same studs permit testing without opening a taped connector. All metal parts are rust-proofed, and the one piece drawn metal hood is hot galvanized.

Catalog No. 563-30
Stock No. (894859)

RELIABLE WIRE TERMINALS



Reliable 5500

The No. 5500 is an unprotected unit, two-post wire terminal, 1 pair, with molded plastic type block.

Catalog No. 5500
Stock No. (896039)



Reliable 5502

The Reliable Two-Post Wire Terminal is designed for connecting drop wires to bridle wires in a small weather-tight unit. It consists of an aluminum bracket mounting a ceramic base having two bronze terminal post screws. A rubber grommet is secured in the base for the entrance wires. The unit is protected by a drawn aluminum cover which is fastened to the bracket assembly with a screw clamp. The bracket permits mounting on cross arms or poles. Cover is held captive by a bead chain. Terminal posts are provided with five washers.

Catalog No. 5502
Stock No. (895801)

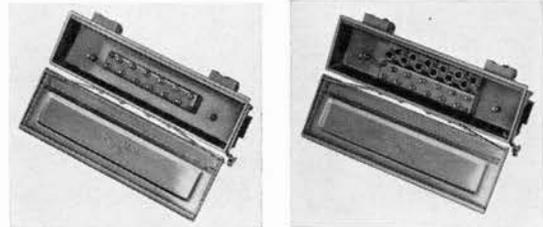
Five Pair Connections

The five pair wire terminal was designed for use with 5 pair Rural Distribution Wire. Porcelain terminal block with binding posts, washers and nuts, is in a formed aluminum housing. Bracket has two 3/8" mounting holes. Aluminum cover is held captive by a bead chain. The terminal is used for joining drop, bridle wires and cables.

Cat. No.	Stock No.	Capacity (Pairs)	Type of Block	Shpg. Wt. Lbs. Each
5503	(895802)	5	Porcelain	3

RELIABLE WIRE TERMINALS
Six, Eleven and Sixteen Pair Connections

A line of wire terminals, for use with 6, 11 and 16 pair Rural Distribution Wires, is now offered in three categories: With Cable Protectors, Station Protectors and Unprotected Terminals.



Unprotected

Cat. No.	Stock No.	Capacity (Pairs)	Type of Block	Shpg. Wt. Lbs. Each
5505	(895850)	6	Molded, resin filled	4
5507	(895852)	6	Porcelain	2
5509	(895853)	6	Porcelain	5
5525	(895855)	11	Molded, resin filled	5
5545	(895858)	16	Molded, resin filled	6

Station Protected

Cat. No.	Stock No.	Capacity (Pairs)	Type of Block	Protector Unit No.	Shpg. Wt. Lbs. Each
5504	(895849)	6	Molded, resin filled	504	5
5524	(895854)	11	Molded, resin filled	504	6
5544	(895857)	16	Molded, resin filled	504	8

Cable Protected

5506	(895851)	6	Molded, resin filled	506	5
5526	(895856)	11	Molded, resin filled	506	6
5546	(895859)	16	Molded, resin filled	506	8

WIRE TERMINAL BLOCKS



Reliable terminal blocks used in the wire terminals are sold separately for use in building boxes or similar housings. All are molded, resin filled except the No. 5517 which is porcelain. The protected type block is equipped with ground strip and either the No. 506 protector unit for cable protection, or No. 504 protector unit for fuseless station protection. A ground lug is attached to the ground strip capable of taking a No. 6 copper ground wire. There are two 1/4" mounting holes in the block.

Unprotected

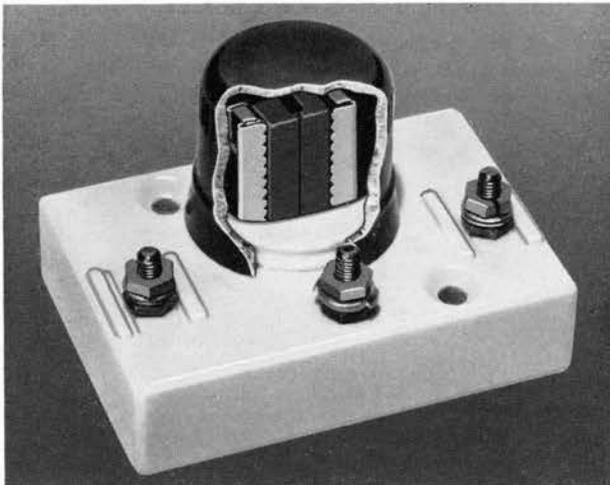
Cat. No.	Stock No.	Capacity (Pairs)	Type of Block	Shpg. Wt. Lbs. Each
5515	(897227)	6	Molded, resin filled	1
5517	(897229)	6	Porcelain	1
5555	(897231)	11	Molded, resin filled	2
5565	(897234)	16	Molded, resin filled	3

Protected

Cat. No.	Stock No.	Capacity (Pairs)	Type of Block	Protector Unit No.	Shpg. Wt. Lbs. Each
5516	(897228)	6	Molded, resin filled	506	2
5556	(897232)	11	Molded, resin filled	506	4
5566	(897235)	16	Molded, resin filled	506	6
5514	(897226)	6	Molded, resin filled	504	2
5554	(897230)	11	Molded, resin filled	504	4
5564	(897233)	16	Molded, resin filled	504	6

Revised 1-1-57

INDOOR ARRESTERS



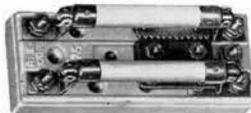
The Reliable No. 977AA Indoor Arrester is equipped with air gaps for protection against static where crosses with electric circuits are not likely to occur.

Cat. No.	Stock No.	Description	Size Inches	Ship. Wt. Ea. (Lbs.)
977AA	(890197)		3½x2½x2 ⁵ / ₁₆	1

RELIABLE TELEPHONE STATION PROTECTORS

Equipped with Adjustable P162 Sawtooth Discharge Plates and P164 Carbons

INDIVIDUAL STATION PROTECTOR



The Reliable No. 975 Arrester is mounted on glazed porcelain base and has adjustable sawtooth metal discharge plates spaced .004" from carbon ground.

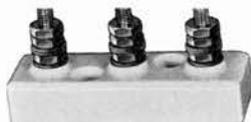
Cat. No.	Stock No.	Description	Fuse No.	Fuse Amp.	Size Inches	Ship. Wt. Ea. (Lbs.)
975	(890195)	(With Cover)	Round Ceramic	Two 31L	3 5x2x2 ⁷ / ₁₆	1½



The Reliable No. 975-B Individual Station Protector has adjustable sawtooth metal discharge plates spaced .004" from the carbon ground.

Cat. No.	Stock No.	Description	Size	Wt. Each
975B	(890198)	(Without Cover)	5x2x1½	1¼
975B	(890199)	(With Cover)	5x2x1½	1½

CONNECTING BLOCKS PORCELAIN BASE

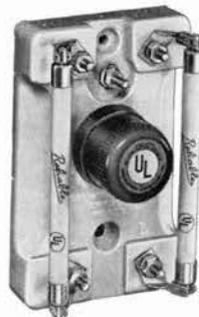


Reliable Connecting Blocks are used for connecting inside and outside wires where telephone protectors are mounted outdoors; also used for extension connections.

Heavy bronze posts spun over and mounted on special low absorption porcelain.

No. of Binding Posts	Stock No.	Size—Inches	Std. Pkg.	Shipping Wt. per C
2	(890210)	1x2x1½	20	50
3	(890211)	1x3x1½	20	75

INDOOR STATION PROTECTORS

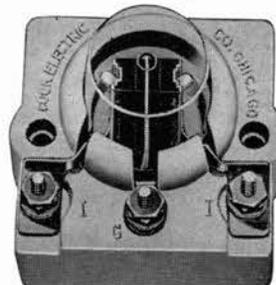


The 955 Series of station protectors have all the features of the well-known Reliable Protectors. This protector is a one piece design which simplifies mounting and installation. The protector is neat and compact, with connections easily accessible for installation.

Reliable Nos. 955 and 955A protectors are listed as standard by Underwriters' Laboratories. Their severe tests are sponsored by the National Board of Fire Underwriters in the interest of fire prevention. A cover for the above terminals is available if desired.

Cat. No.	Stock No.	Fuse No.	Amp.	Type Fuse	Size Inches	Shipping Wt. (Lb.)
955	(890202)	Two 55L	7	Ceramic	3½x5 ³ / ₁₆	2
955A	(890203)	Two 77L	7	Ceramic	3½x5 ³ / ₁₆	2

TYPE NO. 2 LIGHTNING ARRESTER



An indoor arrester, consisting of a solid piece of glazed porcelain fitted with Everdur binding posts, nuts, washers, and phosphor bronze springs.

Lightning arresters are non-grounding Tru Gap Dischargers and plain ground carbons, set in a recess and covered with a ventilated metal cap.

Width 3 inches; Length 2¾ inches; Depth 2 inches; Net Wt. ¾ lb.

Cat. No.	Stock No.	Description
244-1606	(890189)	With Discharger
244-1607	(890190)	With Carbons

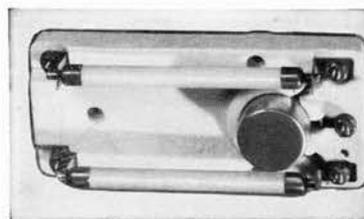
LIGHTNING ARRESTER REPLACEMENTS

Lightning Arresters and Dielectrics

Cat. No.	Stock No.	Description
41-2002	(890264)	3 Carbon block grooved
41-11	(890265)	2 Acetate Dielectric .005" thick
41-12	(890266)	Acetate Dielectric .007" thick
41-10	(890267)	Mica Dielectric .007" thick
41-53	(890268)	Mica Dielectric .010" thick
41-3002	(890269)	1 Carbon block plain
41-1282	(890270)	Carbon block for No. 100 protector

COOK TYPE B-7 SUB-STATION PROTECTOR

To be mounted indoors

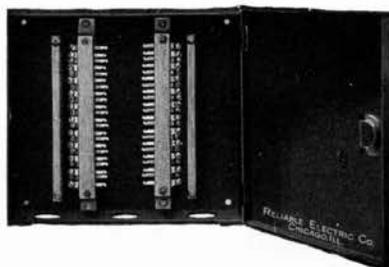


Base is of heavy porcelain, highly glazed, on which are mounted phosphor bronze contact springs. Screws, nuts, and washers are of Everdur.

Lightning arresters consist of two non-grounding Tru Gap Dischargers and two flat carbons set in a well in the porcelain and covered with a vented metal cap. Equipped with A-9, 3 ampere fuses.

Cat. No.	Stock No.	Length	Width	Depth	Net Wt.
115-1530	(890183)	6¾"	3"	2"	1½ lb.

RELIABLE BUILDING TERMINAL BOXES



Reliable Building Terminal Boxes are provided with numerous knockouts at top and bottom. They are also provided with fanning strips and terminal strips having screw binding posts for distributing wires, and soldering terminals for cable wires. They are easy to cable.

Type E equipped with Type E Terminal Strips

Cat. No.	Stock No.	Pairs Per Row	Rows of Term's	Width Inches	Height Inches	Depth Inches	Ship. Wt. (Lbs.) Ea.
E 11	(891027)	11	1	6	10	4	7
E 16	(891028)	16	1	6	16	4	8
E 22	(891029)	11	2	12	12	4	10
E 26	(891030)	13	2	12	16	4	14
E 32	(891031)	16	2	12	16	4	15
E 52	(891032)	26	2	12	20	4	19
E104	(891033)	52	2	12	40	4	34
E208	(891034)	52	4	24	48	4	125

Type EC for cross connecting cables.

Equipped with jumper rings and space for jumper wires

Cat. No.	Stock No.	Pairs Per Row	Rows of Term's	Width Inches	Height Inches	Depth Inches	Ship. Wt. (Lbs.) Ea.
EC 52	(891038)	26	2	12	20	4	16
EC104	(891039)	26	4	24	24	4	45
EC208	(891040)	52	4	24	48	4	125

Type L equipped with Type L Terminal Strips

Cat. No.	Stock No.	Pairs Per Row	Rows of Term's	Width Inches	Height Inches	Depth Inches	Ship. Wt. (Lbs.) Ea.
L11	(891035)	5 1/2	2	12	12	4	9
L16	(891036)	8	2	12	16	4	11 1/2
L26	(891037)	13	2	12	20	4	16
L52	(894768)	26	2	12	40	4	20

TERMINAL STRIPS

Reliable Type "E"



Screw binding posts with soldering terminals embedded in hard maple mounted on phenolic base.

Cat. No.	Stock No.	Length Inches	Shipping Wt. (Lbs.)
E-11PR	(891044)	9 5/16	1/2
E-13PR	(891045)	10 7/16	3/4
E-16PR	(891046)	12 7/16	3/4
E-22PR	(891047)	17 1/8	1
E-26PR	(891048)	19 3/8	1
E-32PR	(891049)	23 1/8	1 1/2
E-52PR	(891050)	37 3/4	2 1/2

Reliable Type "L"

Twin screw binding posts with one soldering terminal mounted on molded plastic with treated maple base strip.

Cat. No.	Stock No.	Length Inches	Shipping Wt. (Lbs.)
L- 5 1/2 PR	(891051)	8 3/8	1/2
L- 8PR	(891052)	11 1/2	3/4
L-11PR	(891053)	15 1/4	1 1/2
L-13PR	(891054)	17 3/4	1 1/4
L-16PR	(891055)	21 1/2	1 1/2
L-26PR	(891056)	34	2 1/2



Reliable Type "T"

Terminal strips are equipped with soldering terminals embedded in phenolic retaining strips and mounted on a phenolic base, made with 1, 2, 3, or 4 rows of terminals of 20 or 26 terminals per row.

Cat. No.	Stock No.	Length Inches	Shipping Wt. (Lbs.)
T-1x20	(891057)	9 3/4	1/2
T-1x26	(891058)	9 3/4	3/4
T-2x20	(891059)	9 3/4	1
T-2x26	(891060)	9 3/4	1 1/4
T-3x20	(891060)	9 3/4	1 1/4
T-3x26	(891060)	9 3/4	1 1/4
T-4x20	(891060)	9 3/4	1 1/4
T-4x26	(891060)	9 3/4	1 1/4

Code No. denotes type (T) number of Rows (1) Terminals per row (20) T-1x20.



S-C PROTECTED WEATHERPROOF HOUSING

For Repeating Coils

Forms phantom circuit either metallic or grounded.

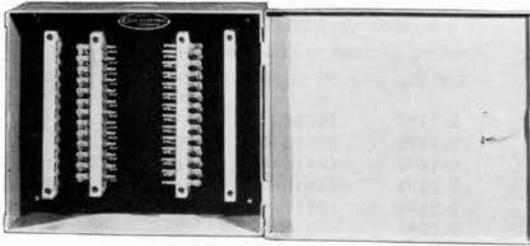
Connects grounded section of line to metallic in electric light and power line induction clearance. Drains lines exposed to electric light and power line induction.

No. HT-610-A is designed for one No. 15-B repeating coil and equipped with 3 pairs of protection. Stock No. (890574)

No. HT-610-B is designed for two No. 15-B repeating coils and equipped with 5 pairs of protection. Stock No. (890575)

Revised 7-15-55

COOK TYPE 57 INTERIOR TERMINAL BOX



The type 57 terminal box is for distribution and termination of lead covered or loom cable for low voltage circuits. It consists of a metal box with hinged cover, fanning and terminal strips, screw connectors on the drop sides and solder clips for cable wires. Locks can be supplied if requested.

Catalog No.	Stock No.	Capacity	Length In.	Width In.	Depth In.
490-7000	(895807)	11 pr.	12	6	3
490-7001	(895808)	16 pr.	12	6	3
490-7002	(895809)	22 pr.	12	12	3
490-7003	(895810)	26 pr.	12	12	3
490-7004	(895811)	52 pr.	24	12	4
490-7005	(895812)	104 pr.	40	12	4

COOK TYPE 53 AND 54 JUNCTION BOXES



Type 53



Type 54

The 53 Junction Box is for use in small unattended exchanges and floor distribution of cables in factories, offices and stores where screw connections and economy are desired. Its construction consists of a wooden base and metal cover with solder clips and screw connections mounted on a maple terminal strip. The Type 54 Junction Box is similar to the Type 53 except that the heads are smaller and the unit more compact. It is especially designed for distribution of annunciator wire in small PBX systems and where economy is a factor.

Type 53 Junction Box

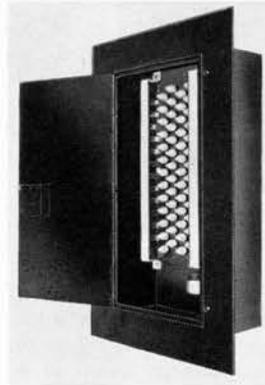
Catalog No.	Stock No.	Cap. Pairs	Length In.	Width In.	Depth In.
490-5313	(894966)	13	11½"	3½"	2½"
490-5326	(894967)	26	21¾"	3½"	2½"

Type 54 Junction Box

Catalog No.	Stock No.	Number of Pairs	Total Height	Total Width	Cover Depth
490-5406	(894968)	6	5"	3"	2½"
490-5410	(894969)	10	7"	3"	2½"
490-5413	(894970)	13	8½"	3"	2½"
490-5426	(894971)	26	15"	3"	2½"

COOK TYPE WXB BUILDING TERMINAL BOX

For terminating and distributing lead covered cable inside buildings.



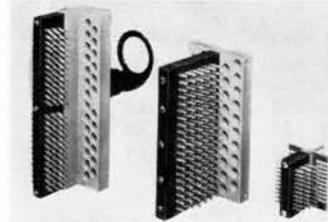
The WXB Building Terminal provides many new conveniences for terminating and distributing lead covered cables inside of buildings. It is furnished for 6, 11, 16 or 26 pair cables in flush or surface type enameled steel boxes. The terminal unit consists of moisture-proof steel cable chamber and single piece moulded bakelite face plate and fanning strips. Non-corrosive studs are embedded in the bakelite, insuring strong low resistance connections. Cables

enter the cable chamber through heavy compression fittings. Loom covered cables are also used satisfactorily with these terminals.

WXB Surface Type

Cat. No.	Stock No.	Description	Lgth. In.	Wth. In.	Dth. In.	Net Wt.
452-8001	(890531)	11 pair less stub	10	8	3	16
452-8006	(890532)	11 pair with stub	10	8	3	14
452-8002	(890535)	16 pair less stub	10	8	3	6
452-8007	(890536)	16 pair with stub	10	8	3	14
452-8003	(890539)	26 pair less stub	15	8	4	9
452-8008	(890540)	26 pair with stub	15	8	4	20

COOK LINE TERMINAL BLOCKS



Cook Type 1000 Line Terminal Blocks are made of solid rubber with push-through solder clips. Furnished with or without solid maple fanning strips.

Cat. No. Vert.	Cat. No. Horiz.	Clips High	Pairs	Description
2-332	2-372	2	20	with maple strip
2-322	2-952	2	20	less maple strip
2-352	2-382	2	26	with maple strip
2-342	2-962	2	26	less maple strip
2-334	2-374	3	20	with maple strip
2-324	2-953	3	20	less maple strip
2-354	2-394	3	26	with maple strip
2-344	2-963	3	26	less maple strip
2-336	2-376	4	20	with maple strip
2-326	2-954	4	20	less maple strip
2-356	2-386	4	26	with maple strip
2-346	2-964	4	26	less maple strip
2-338	2-378	5	20	with maple strip
2-328	2-955	5	20	less maple strip
2-358	2-388	5	26	with maple strip
2-348	2-965	5	26	less maple strip
2-340	2-380	6	20	with maple strip
2-330	2-956	6	20	less maple strip
2-360	2-390	6	26	with maple strip
2-350	2-966	6	26	less maple strip

STROMBERG-CARLSON

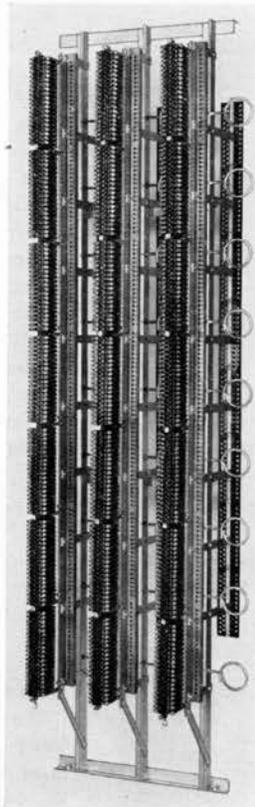
**RELIABLE TYPE 303 AND 308
MAIN DISTRIBUTING FRAMES**

Type 303 and 308 Main Distributing Frames offer two arrangements in terminating outside exchange cables and switchboard cables. The outside cable can be terminated on either the line terminal or protector side. Cross connectors are provided by jumper wires. The frame is strong and rigid. Jumper rings are provided on the main uprights. Protector fanning strip and line terminal fanning strips are provided, for a neat and convenient cable and jumper layout.

Each vertical section has a capacity of 100 or more pairs of protectors mounted in banks of 20 pairs each, and 130 or more pairs of 112F line terminal blocks in 26 pair blocks. Terminal blocks may be attached in either horizontal or vertical rows as ordered.

Line terminals and protectors are numbered as specified.

In addition to the standard frames shown, Reliable main distributing frames are made to meet specific requirements, and estimates will be furnished on request. Specify type of frame, protectors, terminal blocks, fanning strips, and iron work.



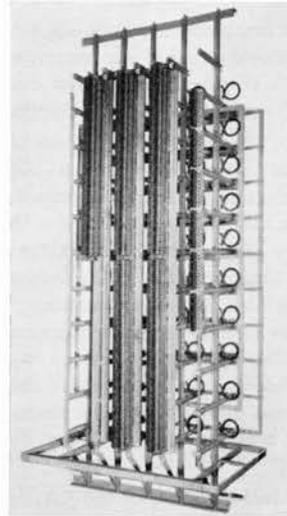
Cat. No.	Stock No.	Fuse	Other Units
303F (894881)	106	P495 Dischg. Blk., P663 Carbons	
303H (894882)	107	Heat Coil P495 Dischg. Blk., P663 Carbons	
308F (894883)	114	P308 Disch. Blk., P4375 Carbon	
308H (894884)	115	Heat Coil P308 Disch. Blk., P4375 Carbon	

RELIABLE WALL DISTRIBUTING FRAMES

Reliable Wall Type Distributing Frames include framework and line terminals only. Protector banks, in multiples of 20 must be ordered separately. Specify whether for 308 or 303 Protectors.

Catalog No.	Stock No.	Capacity Protector Side	Capacity Cable Side
308-W-20	(895813)	20 pr.	26 pr.
303-W-20	(895814)	20 pr.	26 pr.
308-W-40	(895815)	40 pr.	52 pr.
303-W-40	(895816)	40 pr.	52 pr.
308-W-60	(895817)	60 pr.	78 pr.
303-W-60	(895818)	60 pr.	78 pr.
308-W-80	(895819)	80 pr.	104 pr.
303-W-80	(895820)	80 pr.	104 pr.
308-W-100	(895821)	100 pr.	130 pr.
303-W-100	(895822)	100 pr.	130 pr.

**COOK TYPE L
MAIN DISTRIBUTING FRAMES**



Type L Main Distributing Frames provide the advantage of two methods of terminating the outside cable on the frame. The cable entering the central office can be terminated on line terminals and the switchboard cable on protectors or, the outside cable can be terminated on protectors and the switchboard cable on line terminals. Flexible jumper wires connect the line terminals and protectors. Any outside pair, therefore, can be connected to any switchboard pair. Type L Main Distributing frames are furnished

either welded or knocked down and bolted. These frames are also exclusively equipped with a special alarm circuit for signalling heat coil operation. Protectors afford a convenient means for testing both outside lines and switchboard circuits and cutting them in and out of service. Cut shows several types of Protectors.

Three types of protector groups are available: (1) lightning arresters and heat coils; (2) lightning arresters and fuses; (3) fuses, arresters and heat coils.

Type L Frames are constructed of steel in sectional form, 100 or more pairs in height. Additions may be added to right or left. Frames are attractively finished in durable paint unless otherwise ordered. Stock No. (894039)

COOK TYPE L9 WALL DISTRIBUTING FRAMES

The Type L9 Wall Distributing Frame is intended for economical distribution and protection of limited capacity cable and especially for installation in small exchanges.

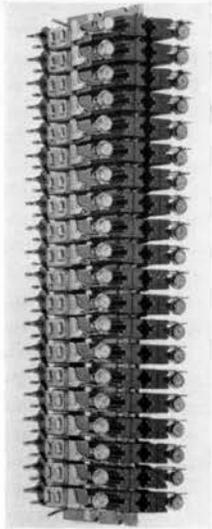
The L-9 Wall Distributing Frame, made in 20, 40, 60, 80, and 100 pair sizes is designed to carry any Cook central office protector. The frame of the L-9 consists of two pieces of hard kiln dried maple, one drilled and arranged for, and equipped with, line terminals; the other drilled and milled for mounting the protectors; and two heavy mounting brackets of bar iron finished in durable paint.

Catalog No.	Stock No.	Capacity Protector Side	Capacity Cable Side
361-1050	(894651)	20 pr.	26 pr.
361-1052	(894652)	40 pr.	52 pr.
361-1054	(894653)	60 pr.	78 pr.
361-1056	(894654)	80 pr.	102 pr.
361-1058	(894655)	100 pr.	130 pr.

NOTE: All L-9 frames furnished complete with wall brackets, distributing strips, terminal blocks and protector fanning strip. Protector fanning strips and rubber terminal blocks numbered top down 1, 2, 3, 4, 5, etc.

COOK CENTRAL OFFICE PROTECTORS

Type No. 100



For cable termination and protection of central office equipment and personnel from high potentials and sneak currents. Pairs are mounted on 1/2" centers.

The No. 100 Central Office Protector opens the switchboard circuit and grounds the outside line; it operates an automatic alarm circuit; it provides for temporary disconnect; it is equipped with the Cook patented self-soldering, relatching heat coils of low resistance which can be reset without changing coil; its line connections are on one side of protectors and switchboard connections are on the other side; testing may be done without removing the heat coil.

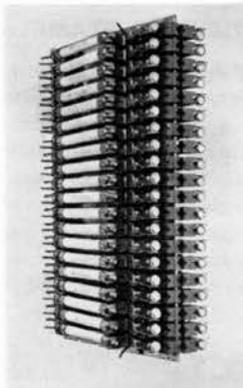
Heavy carbon and heat coil holding springs in the No. 100 Protector insure a positive permanent pressure between the precision ground discharger

carbons and the ground plate. All current carrying parts are thoroughly insulated by hard rubber and bakelite.

In operation the No. 100 Protector opens the switchboard circuit, grounds the outside line and operates an alarm signal.

Cat. No.	Stock No.	Description of Section	Lgth. In.	Width In.	Depth In.	Net Wt. Lb. 100 Prs.
360-1210	(894035)	10 pair	5 1/2	2	3 1/2	17
360-1220	(894036)	20 pair	10 1/2	2	3 1/2	17

Type No. 105



Provides fuse protection in addition to lightning arresters and heat coils for the protection of central office personnel and equipment. Pairs are on 1/2" centers.

This protector is especially recommended for the protection of toll line and carrier circuits.

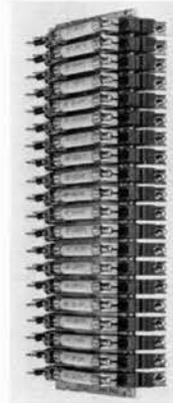
Extraneous currents of low intensity operate the No. 105 Central Office Protector heat coil, ground the outside line, and operate the alarm signals. High potentials go to ground across the air gap of the lightning arresters. A current of 3

amperes or more will operate the fuse.

Mounting plates are metal and may be mounted on a standard frame, carrying protectors on 1/2" centers. The circuit from the heat coil spring to the switchboard terminal is carried between the grounded mounting plates and is well shielded.

Cat. No.	Stock No.	Description of Section	Lgth. In.	Width In.	Depth In.	Net Wt. Lb. 100 Prs.
392-1510	(894758)	10 pair	5 1/2	3	7	41
392-1520	(894759)	20 pair	10 1/2	3	7	41

Type H-36



Provides fuses and lightning arresters.

For small town rural exchanges where sneak current hazard does not exist the H-36 Protector offers an ideal protector unit. This time-tested protector, built on heavy zinc metal plates, gives both fuse and lightning arrester protection.

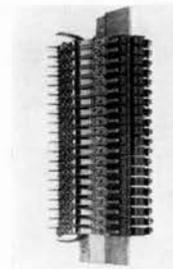
The unit is fire-proof. The H-36 has had thirty years of successful field use in those areas in which lightning conditions have been unusually severe.

The H-36 Central Office Protector is built in 10 and 20 pair sections in metal plates. Pairs are on 1/2" centers. Fuse clips and insulation the same as in the No. 105.

Type A-45 fuses which blow at 1 ampere are furnished as standard. A-46 wood fuses will be furnished when specified.

Cat. No.	Stock No.	Description of Section	Lgth. In.	Width In.	Depth In.	Net Wt. Lb. 100 Prs.
296-3610	(894042)	10 pair	5 1/2	1 1/2	5 1/2	21
296-3620	(894043)	20 pair	10 1/2	1 1/2	5 1/2	21

Type No. 3800



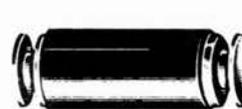
Pairs are mounted on 3/8" centers.

The No. 3800 Central Office Protector offers the same combination of protection features as the No. 100. As in the No. 100, the No. 3800 protector is reset after operation by simply relatching the operating spring over the heat coil. There are no coils to change, reverse or resolder.

Cat. No.	Stock No.	Description of Section	Lgth. In.	Width In.	Depth In.	Net Wt. Lb. 100 Prs.
380-1320	(894037)	20 pair	8 3/8	3	4 3/4	23

COOK HEAT COILS

For Central Office Protectors



No. 4A
Cat. No. 7-32
(894000)



No. 10
Cat. No. 60-71
(894001)



No. 50 or 60
Cat. No. 305-52
(894002)



No. 100 or 105
Cat. No. 360-70
(894003)



No. 3800
Cat. No. 380-30
(894004)

RELIABLE HEAT COIL FUSES



Fuse—Closed

The wire wound heat coils operate in accordance with standard specifications for protection of central office equipment. A very low resistance heating element is used because heat is not dissipated by metallic contact with mountings.

These sneak current fuses are designed to carry .35 ampere indefinitely, sustain short period overloads and open within five minutes when carrying .53 ampere (150% of rated current) at ambient temperature of 68° F.

Reliable No. 107 and No. 115-H heat coil fuses operate faster than standard 7-amp. line fuses when blown at 10.5 amp. or more.

After operating, the indicator plunger protrudes approximately an inch from the end of the fuse cartridge and can be readily seen from a distance. The fuses can normally be reset by pressing on the indicator plunger while a current of approximately one ampere is applied through the fuse.

Reset panels for these fuses are furnished with new distributing frames.

Cat. No.	Stock No.	Used In	Size—Inches	
			Dia.	Shoulder To Shoulder
107	(894127)	303 Protectors	3/8	3 1/16
115H	(894769)	308 Protectors	5/16	3 1/16

RELIABLE MICA FUSES

Made with superior grade of mica and heavy copper terminals. When ordering fuses, specify code number, amperage, open or enclosed type. Enclosed fuses supplied on standard sizes unless otherwise specified.



Western Union Type



Postal Type

Cat. No.	Stock No.	Type	Size—Inches		Standard Package	Ship. Wt. Lbs. per C
			Length	Width		
19	(890251)	WESTERN UNION	2	3/8	50	1/2
8	(890252)		2 1/8	3/8	50	1/2
22	(890253)		2 1/2	1/2	50	1/2

Cat. No.	Stock No.	Type	Size—Inches		Standard Package	Ship. Wt. Lbs. per C
			Length	Width		
137	(890254)	POSTAL	1 7/8 or 2	1/4	50	1/2
21	(890255)		2	3/8	50	1/2
11	(890256)		2 1/8	3/8	50	1/2
25	(890257)		2 1/2	1/2	50	1/2



Western Union Type



Postal Type

Cat. No.	Stock No.	Type	Size	Std. Pkg.	Fuse No.	Ship. Wt. Lb. per C
				18	(894649)	WESTERN UNION	3 1/2 x 3/4 x 1 1/4	10	19	31
20	(894650)	POSTAL	3 1/2 x 3/4 x 1 1/4	10	21	31

FUSES FOR PROTECTORS AND CABLE TERMINALS

Reliable fuses are of uniform quality and electrical characteristics. Sizes and types are available for all standard telephone protectors and cable terminals.

Early telephone fuses were rated at their blowing points. Later, power ratings came into wide use, permitting a fuse to carry rated current for an indefinite period and to blow within five minutes at 50% overload. Reliable standard fuses are in 1, 3 and 5 ampere telephone ratings, and 7 ampere power rating. Other power and telephone ratings are available on request. Starred catalog numbers are listed by the Underwriters' Laboratories in 7 ampere capacity.

3/8" Ceramic with 1 3/4" Tips



Cat. No.	Stock No.	Material	Shoulder To Shoulder	Standard Package	Ship. Wt. Lbs. per C
27L	(890218)	Ceramic	4 3/4"	50	7
35L	(895823)	Ceramic	3 7/8"	50	5
*77	(890220)	Ceramic	4 3/4"	50	6
95L	(890221)	Ceramic	4"	50	5
31L	(890223)	Ceramic	3"	50	4

7/16" Ceramic with 3/8" Hex. Nuts



Cat. No.	Stock No.	Material	Shoulder To Shoulder	Standard Package	Ship. Wt. Lbs. per C
53L	(890229)	Ceramic	3 3/4"	50	5
*55L	(890230)	Ceramic	4 1/16"	50	5 1/4

7/16" Fibre with 7/16" Hex. Nuts



Cat. No.	Stock No.	Material	Shoulder To Shoulder	Standard Package	Ship. Wt. Lbs. per C
56	(890232)	Fibre	4 1/16"	50	5

7/16" Fibre with Flat Tip

Cat. No.	Stock No.	Material	Shoulder To Shoulder	Standard Package	Ship. Wt. Lbs. per C
*52	(890228)	Fibre	3 1/2"	50	3

RELIABLE BLOW-RITE FUSE WIRE



Blow-Rite Fuse Wire is a copper alloy wire specially made for telephone fuses. It has high tensile strength and can be soldered without fear of burning the wire. It will not corrode or crystallize.

Made in 1, 2, 3 and 5-ampere capacities. Supplied on 300-foot spools. Stock No. (890237)

20q · PROTECTORS

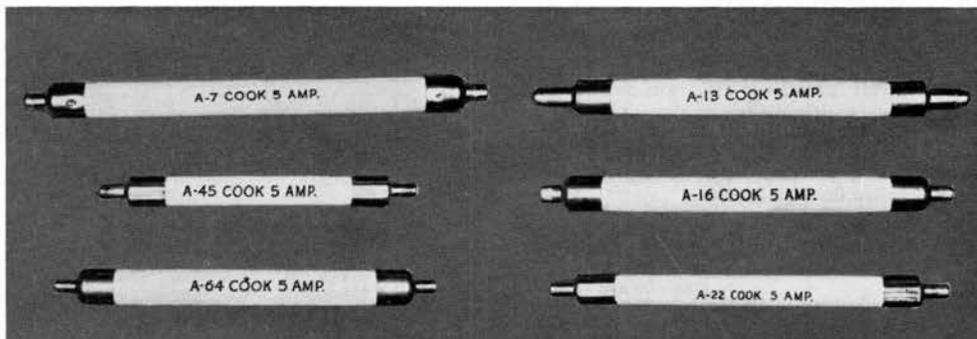
Revised 7-15-55

COOK FUSES FOR PROTECTORS AND TERMINALS

These fuses are designed for use in Cook Protectors and Terminals. To facilitate ordering, the illustrations show the actual size of each fuse. There are two methods of rating telephone and telegraph fuses. Power rated fuses will carry their rated capacity indefinitely without an undue rise in temperature, and will blow within five minutes on 150% of their rated capacity. Cook tele-

phone fuses recognize the importance of the telephone rating, which means that they will operate at their capacity, thus assuring critical protection. Cook Fuses are listed as approved by the Underwriters' Laboratories.

Fibre dowed power rated fuses are interchangeable with the corresponding types of telephone rated fuses.



Cat. No.	Stock No.	Type	Used in	Wt. Lb. per 100
59-0700	(890238)	A-7 Wood	S-6, H-29-D, O-7	8
91-1200	(890250)	A-12 Lavite	H-51, O-12	7
146-0900	(890239)	A-9 Lavite	B-7, B-13, O-9	8
149-1600	(890244)	A-16 Wood	O-16	7
299-4400	(894128)	A-44 Wood	H-44	7
306-4500	(890249)	A-45 Lavite	H-36	7
307-4600	(890248)	A-46 Wood	H-36	7
424-5200	(890243)	A-52 Fibre	O-52	8
494-6200	(890245)	A-62 Fibre	O-62	8
499-6400	(890247)	A-64 Wood	O-64	7
*146-217	(895825)	A-90 Lavite 7 amp.	O-9U	8

*Listed by Underwriters Laboratories.

FUSE WIRE

Cat. No.	Stock No.	Description
900-6000	(895824)	Fuse wire spool of 250 ft. Specify amperage: 1, 2, 3, 5 or 7 amp.

FUSE NEEDLE

Cat. No.	Stock No.	Description
59-16	(894044)	Steel needles for threading fuse wire.

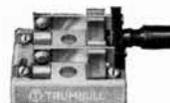
TRUMBULL SWITCHES

There are still many applications for open knife switches. Trumbull switches meet the requirements of high quality and suitability. The switches shown are front connected, no fuse, single and double throw, with porcelain base and plain (bright) finish. 30 Amperes.

Switches 707, 708 have 1 pole, Weight ¼ pound, each.

Switches 709 and 710 have 2 poles. Weight ½ pounds, each.

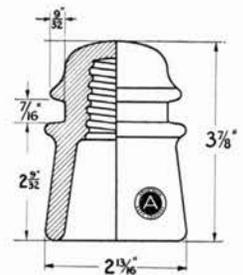
Cat. No.	Stock No.	Throw	Dim. In.
707	(890258)	Single	2 ⁷ / ₁₆ x1 ¹ / ₄
708	(890259)	Double	3 ⁵ / ₁₆ x1 ⁵ / ₁₆
709	(890260)	Single	2 ⁷ / ₁₆ x2
710	(890261)	Double	3 ⁵ / ₁₆ x2



STROMBERG-CARLSON

STROMBERG-CARLSON

Insulators and Sleeves



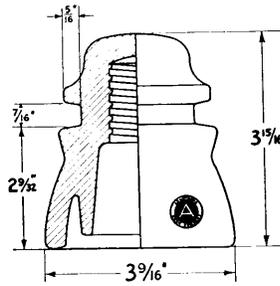
Dependable glass insulators to withstand the worst weather conditions; porcelain knobs and screw eyes; splicing equipment for those inevitable "breaks" caused by severe icing.

CONTENTS
SECTION S

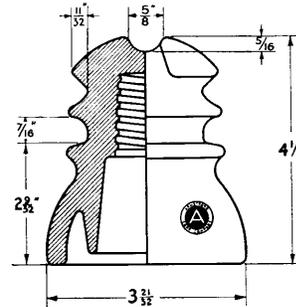
INSULATORS AND SLEEVES

	Page
Armstrong Glass Insulators.....	3s
Hemingray Glass Insulators	4s
Non-Breakable Insulators	5s
Porcelain Insulators	5s
Wire Holders	6s
Nicopress Splicing Sleeves	7s
Off-set Dead Ends	9s
Splicing Tools	10s
Reliable Sleeves	11s
Splicing Tools	13s

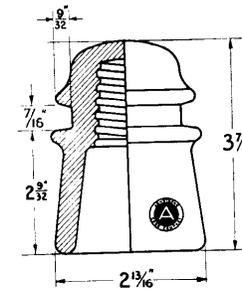
ARMSTRONG'S GLASS INSULATORS



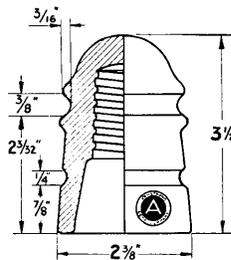
NO. 1
Side G. Double Petticoat
 Height Over All.....in. 3 15/16
 Diameter Over All.....in. 3 9/16
 Diameter Groove.....in. 7/16
 Quantity per Box..... 40
 Appr. Wt. per 1000...lb. 1625
 Stock No. (891187)



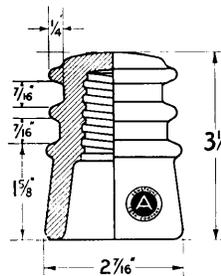
NO. 10
Top Groove D. P.
 Height Over All.....in. 4 1/4
 Diameter Over All in. 3 21/32
 Diameter Groove...in. 7/16
 Quantity per Box..... 40
 Appr. Wt. per 1000 lb. 1750
 Stock No. (891191)



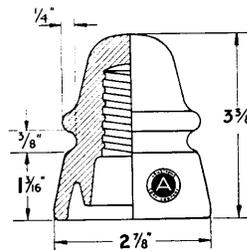
No. 2
Toll Line
 Height Over All.....in. 3 7/8
 Diameter Over All.....in. 2 13/16
 Diameter Groove.....in. 7/16
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 1080
 Stock No. (891188)



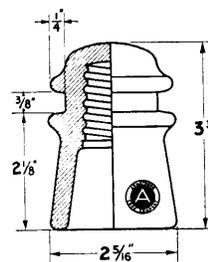
NO. 13
Double-Groove Pony
 Height Over All.....in. 3 1/2
 Diameter Over All.....in. 2 3/8
 Diameter Groove.....in. 3/8
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 640
 Stock No. (891192)



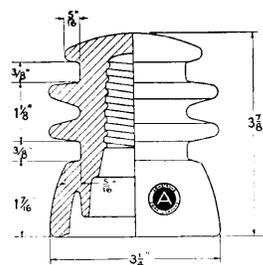
NO. 3
Exchange Line
 Height Over All.....in. 3 1/4
 Diameter Over All.....in. 2 7/16
 Diameter Groove.....in. 7/16
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 720
 Stock No. (891189)



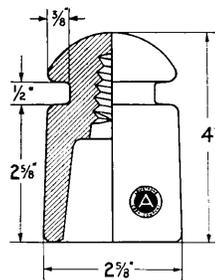
NO. 14
Dbl.G., D. P. Pony
 Height Over All.....in. 3 3/8
 Diameter Over All.....in. 2 7/8
 Diameter Top Groove...in. 3/8
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 820
 Stock No. (891193)



NO. 9
Pony
 Height Over All.....in. 3 3/8
 Diameter Over All.....in. 2 5/16
 Diameter Groove.....in. 3/8
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 620
 Stock No. (891190)

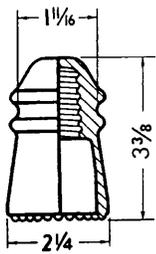


TW
One-Piece Trans.
 Height Over All...in. 3 7/8
 Diameter Over All in. 3 1/4
 Diameter Groove in. 3/8
 Quantity per Box..... 40
 Approx. Wt. per 1000 . lb. 1600
 Stock No. (894674)



CSC
Carrier Service
 Height Over All.....in. 4
 Diameter Over All.....in. 2 5/8
 Diameter Groove.....in. 1/2
 Quantity per Box..... 50
 Appr. Wt. per 1000.....lb. 1120
 Designed for mounting on a steel pin cushioned with a .016" lead thimble or approved equivalent.
 Stock No. (891195)

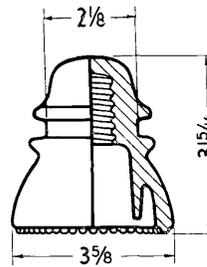
HEMINGRAY GLASS INSULATORS



NO. 9
Pony

Height Over Allin. 3 3/8
 Diameter Over Allin. 2 1/4
 Diameter Groovein. 3/8
 Quantity per Box 50
 Approx. Wt. per 1000lb. 620

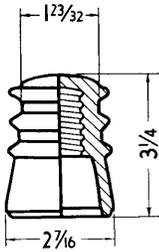
Stock No. (891177)



NO. 42
Double Petticoat

Height Over Allin. 3 31/32
 Diameter Over Allin. 3 3/4
 Diameter Groovein. 7/16
 Quantity per Box 40
 Approx. Wt. per 1000lb. 1487

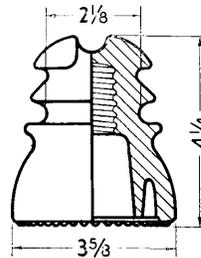
Stock No. (891182)



NO. 10
Exchange Line

Height Over Allin. 3 1/4
 Diameter Over Allin. 2 7/16
 Diameter Groovein. 7/16
 Quantity per Box 50
 Approx. Wt. per 1000lb. 710

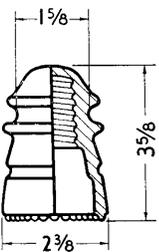
Stock No. (891178)



NO. 43
Top Groove W. U.

Height Over Allin. 4 9/32
 Diameter Over Allin. 3 3/4
 Diameter Groovein. 7/16
 Quantity per Box 40
 Approx. Wt. per 1000lb. 1750

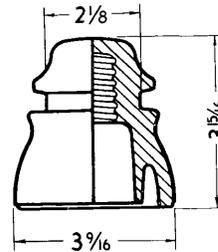
Stock No. (891183)



NO. 12
Double-Groove Pony

Height Over Allin. 3 5/8
 Diameter Over Allin. 2 3/8
 Diameter Top Groovein. 3/8
 Quantity per Box 50
 Approx. Wt. per 1000lb. 650

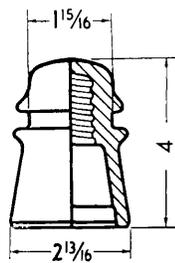
Stock No. (891179)



NO. 45
One-Piece Trans.

Height Over Allin. 3 15/16
 Diameter Over Allin. 3 9/16
 Diameter Groovein. 7/16
 Quantity per Box 40
 Approx. Wt. per 1000lb. 1625

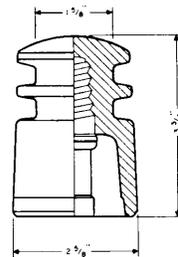
Stock No. (891184)



NO. 16
Long Distance

Height Over Allin. 4
 Diameter Over Allin. 2 13/16
 Diameter Groovein. 3/8
 Quantity per Box 50
 Approx. Wt. per 1000lb. 1090

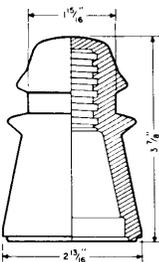
Stock No. (891181)



NO. 23
Point Transposition

Height Over Allin. 3 3/4
 Diameter Over Allin. 2 5/8
 Diameter Groovein. 1/2
 Quantity per Box 50
 Approx. Wt. per 1000lb. 990

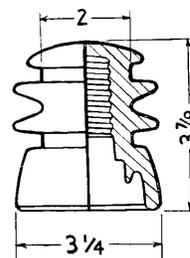
Stock No. (897198)



NO. 17
Medium Length Lines

Height Over Allin. 3 7/8
 Diameter Over Allin. 2 13/16
 Diameter Groovein. 1 15/16
 Quantity per Box 50
 Approx. Wt. per 1000lb. 1060

Stock No. (897197)



NO. 56
Point Transposition

Height Over Allin. 3 7/8
 Diameter Over Allin. 3 1/4
 Diameter Groovein. 3/8
 Quantity per Box 40
 Approx. Wt. per 1000 lb. 1537

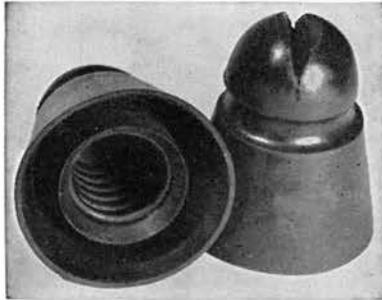
Stock No. (894893)

Table of Comparable Pin Type Insulators

All comparisons are approximate, and not identical.

Brand Name	Number			Number			
Whitall Tatum	1	2	3	9	10	13	C.S.C.
Hemingray	42x45	16 or 17	10	9	43	12	C.S.C.

TYPE R-3 NON-BREAKABLE INSULATORS



Designed for wood pins. With a wood cob may also be used on steel pins; ties are not necessary.

Under both dry and wet weather conditions the insulation is fully equal to glass.

The insulators will withstand repeated blows from stones and rifle bullets and will maintain the wires in place even though lacerated by gun shot. The standard package contains 100 insulators.

Stock No. (894675)

PLASTIC TUBES

**Non-Breakable
Dry Process
Extruded Plastic**



These tubes are used in the same applications as the ceramic or unglazed porcelain tubes which they replace. Made of thermoplastic material, they are non-inflammable and practically unbreakable. They afford considerable saving in weight as well as a tremendous saving in breakage. Also, because of their much smaller wall thickness, time will be saved in drilling holes.

"B" tubes are in individual boxes, 5 pieces per box, 200 pieces per shipping carton.

3/8" Inside Diameter "B" Tubes

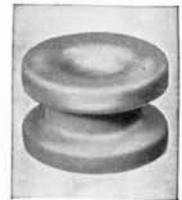
Size	Stock No.
3/8" x 4"	(895179)
3/8" x 6"	(895180)
3/8" x 8"	(895181)
3/8" x 12"	(895182)

STANDARD PORCELAIN TELEPHONE KNOBS

Single Groove



No. 4-SG
(891196)



Type S
(891197)

Catalog No.	4-SG	S
Height	1 11/16 inches	1 1/16
Diameter	1 1/2 inches	1 5/8
Hole	3/8 inches	3/8
Groove	3/8 inches	7/16
No. per Barrel	2000	2500
Weight per 1000	230 pounds	150

Double Groove



No. 4-2GR
(891199)



No. 6061
(891200)



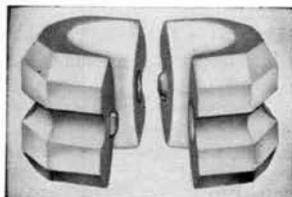
Type T
(891201)



Type C
(891202)

Catalog No.	4-2GR	6061	T	C
Height	1 11/16 in.	1 7/16	1 13/16	1 1/4
Diameter	1 1/2 in.	1 5/8	1 5/8	3/4 x 1 3/16
Hole	3/8 in.	3/8	7/16	7/32
Groove	5/16 in.	5/16	7/16	9/32
No. per Barrel	2000	1900	1500	5000
Weight per 1000	225 lb.	210	245	95

**VICTOR PORCELAIN
SPLIT INSULATORS**



Catalog No.	22
Stock No.	(891203)
Height	1 5/8 in.
Diameter	2 5/8 in.
Hole	1 in.
Groove	5/16 in.
No. per Barrel	1250
Weight per 1000, lbs.	332

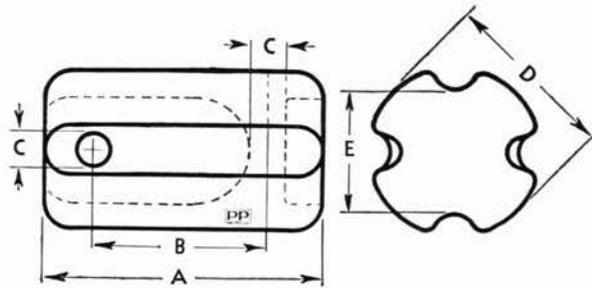
FOUR-GROOVE TELO



Catalog No.	6062
Stock No.	(891198)
Height	2 1/4 in.
Diameter	1 3/4 in.
Hole	7/16 in.
Groove	5/16 in.
No. per Barrel	1000
Weight per 1000	395 lbs.

Revised 1-1-57

PORCELAIN STRAIN INSULATORS



Dry Process

Cat. No.	Stock No.	Dimensions, Inches					Std. Pkg.	Wt. Lb. per 100
		A	B	C	D	E		
500	(891237)	2 3/8	1	3/8	1 1/8	1 1/8	100	24
502	(891238)	3 1/2	1 3/4	5/8	2 1/2	1 3/4	50	128
504	(891239)	4 1/4	2 1/4	7/8	2 7/8	2 1/8	36	178
506	(891240)	5 3/8	3 1/8	1	3 3/8	2 3/8	25	368

Wet Process

Cat. No.	Stock No.	Dimensions, Inches					Std. Pkg.	Wt. Lb. per 100
		A	B	C	D	E		
500	(894137)	2 3/8	1	3/8	1 1/8	1 1/8	100	24
502	(894138)	3 1/2	1 3/4	5/8	2 1/2	1 3/4	50	128
504	(894139)	4 1/4	2 1/4	7/8	2 7/8	2 1/8	36	178
506	(894140)	5 3/8	3 1/8	1	3 3/8	2 3/8	25	368

ALLIGATOR NAIL KNOBS

For providing insulating support in interior wiring, both open and concealed.

It is simple, economical, dependable, and safe.

Made of hard vitrified porcelain, either glazed or unglazed, assembled with 12d nails.

The nail is held in position by a steel washer, which eliminates weakening or bending the nail. The nail head is thoroughly cushioned with a leather washer to prevent breakage.



Height, 1 3/4 inches. Diameter, 1 1/8 inches.

Size of wire, 12-14.

Quantity per barrel, 2700.

Shipping weight per 1000, 165 pounds.

Stock No. (891206)



SELF-TYING KNOBS

Requires no tie wires, brackets, angle irons or bolts. The drop wire can be led in from any angle and pulls directly against the screw.

Made from white glazed porcelain.

Weight per 1000, 450 pounds.

Stock No. (891205)

WIRE HOLDERS

All-Porcelain Type Single and Double Groove



No. 1621
Single Groove



No. 1622
Double Groove

Combines a wall bracket, insulator and screw all in one. A jab and a few turns is all that is necessary to install it. Designed so that no metal is exposed after installations.

The special wood screw which is a part of this wire holder has a clean cut thread and a point which starts into the wood under very little pressure.

Packed 50 in a standard package.

Cat. No.	Stock No.	Size of Screw, In.	Size Wire Hole, In.	Wt. Lbs. per 100
1621	(891254)	20x2 1/8	5/8	65
1622	(891255)	20x2	7/16 x 3/4	65

SERVICE WIRE HOLDERS

Designed for long service. Made of porcelain. All corners are rounded. Screws have sharp threads and are leaded solidly into the porcelain.

All steel screws are hot galvanized.

Size hole of holder No. J1955, 1/2 x 3/4 inches; Diameter of porcelain at base 1 7/8 inches; Height of porcelain, 2 7/8 inches.



No. J1955



No. J1960



No. J-089

The No. J-089 Wireholder is unequalled for rugged construction, attractive appearance, and ease of installation. Equal strength on dead end or 45° pull. All steel parts are hot dip galvanized; all edges on the porcelain insulator are well rounded and will not chip even though a steel bar is used as a handle to install the wireholder.

Cat. No.	Stock No.	Screw Size & Length	No. in Pkg.	Wt. per 100
J-089	(894771)	22x2 1/4"	50	75 lb.

Size of hole of holders J1960, J1961, J1965, J1976, 7/8 inches; Diameter of porcelain at base 2 1/2 in.; Height of porcelain 3 3/8 in.

Cat. No.	Stock No.	Insulator Mounted on	Wt. Lb. per 100
J1955	(891256)	Galv. Steel Screw	65
J1960	(891257)	Galv. Steel Screw	95
J1961	(891258)	Brass Screw	95
J1965	(891260)	Galv. Carriage Bolt	107
J1976	(891261)	Galv. Toggle Bolt	105

NATIONAL NICOPRESS SPLICING SLEEVES For Communication Lines

In the making of a Nicopress splice, the sleeves which are lined with a metal alloy, harder than the metal of either sleeve or conductor, are pressed onto the conductors with the special Nicopress tool. The hard alloy is forced onto the softer metals of sleeve and conductor. The resultant joint has a strength that is greater than the rated breaking strength of the conductor, and is so tight that the conductor cannot pull out.

Nicopress splices will withstand the toughest strains of vibration and have a high lasting conductivity.

NICOPRESS SLEEVES

Nothing could be simpler than making a splice with NICOPRESS equipment. Here is all you do:

- 1) Clean the end of the wire to be spliced
- 2) Insert wire in the proper size sleeve
- 3) Compress sleeve with special NICOPRESS TOOL

The result is a splice that will hold up for the life of the wire.

Many Sizes and Materials Are Available

NICOPRESS SLEEVES are made in several sizes and materials, each for a specific job. The code numbering, an easy key to ordering, is explained below.

First Figure signifies the material: 1—Copper, 2—Galvanized Copper, 3—Bronze, 4—Galvanized Bronze, 5—Galvanized Steel.

Second Group of three figures show the decimal equivalent of the wire diameter (.162—.162" or No. 6 B and S Copper).

The Last Letter indicates the tool groove for compressing the sleeve (J groove, D groove, etc.).

Example: 1-064C is made of Copper, takes wire of .064". Diameter (No. 14B&S Gage), and is compressed in the "C" groove of the tool.

Special Prefix Numbers

The regular code numbers, as detailed above, are sometimes preceded by a prefix number or letter to signify a particular use.

For Repair Sleeves, the code is preceded by "R."

Example: R1-162J

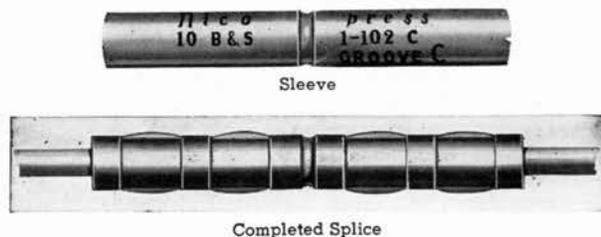
For Nicotap, the code is preceded by "T."

Example: T2-109 x 045D

For Offset Dead-End, the code is preceded by "9."

Example: 91-162J.

The coding pattern is given here as additional helpful information only; all necessary ordering information is clearly shown on the following pages.



For Drop, Bridle and Inside Wires

Splices made with Nicopress sleeves have maximum strength and tightness, are small, compact, and neat. There is a saving of wire and tape due to the fact that the wires are butted and not overlapped. Splicing is quickly done with the light, compact, one-hand-operated No. 17 type tool, completely eliminating need of solder.



Completed Drop Wire Splice



Completed Inside Wire Splice

Cat. No.	Stock No.	For Wire	For Use in Tool No.	Ship. Wt. per 200
3-036A	(893201)	19-20-22 B. & S. Copper	17-2	1/2 Lb.
3-045B	(893202)	{ 17-18 A.W.G. Copperweld 17 B. & S. Bronze 17-18 B. & S. Copper	17-2	3/4 Lb.
3-051B	(893203)	{ 16 B. & S. Copper 16 A.W.G. Copperweld	17-2	3/4 Lb.
3-064B	(893204)	14 B. & S. Copper	17-2	3/4 Lb.
4-049B	(893205)	18-19 B.W.G. Galv. Iron	17-2	3/4 Lb.

For Hard Drawn Copper Wire Copper Sleeves

Cat. No.	Stock No.	Gage		in Tool Groove For Use	Wt. Lb. per 100 Ship.
		B. & S.	N.B.S.		
1-064C	(893206)	14	16	C	1 1/2
1-080C	(893207)	12	14	C	1 1/2
1-080D	(893208)	*12	14	D	1 1/2
1-102C	(893211)	10	12	C	1 1/4
1-102D	(893212)	*10	12	D	1 1/2
1-114D	(893215)	9	11	D	1 1/2
1-128E	(893218)	8	10	E	1 1/2
1-128J	(893219)	*8	10	J	4 1/2
1-162J	(893220)	6	8	J	4 1/2

*Indicates sleeve with larger than standard outside diameter for use in a larger tool groove.

For "BB" Galvanized Wire

Catalog No.	Stock No.	B.W.G.	For Use in Tool Groove	Ship. Wt. Lbs. per 100
Galvanized Steel Sleeves				
5-083C	(893221)	14	C	1 1/2
5-109C	(893222)	12	C	1 1/2
5-109DBB	(893223)	*12	D	1 3/4

Galvanized Copper Sleeves

2-083C	(893227)	14	D	1 3/4
2-083D	(893228)	*14	C	1 1/2
2-109D	(893229)	12	D	1 3/4
2-134J	(893230)	10	J	2
2-148J	(893231)	9	J	4 1/2
2-165J	(893232)	8	J	4 1/2

Galvanized Bronze Sleeve

4-109C	(893233)	12	C	1 1/4
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Revised 1-1-57

For "85" Galvanized Wire Galvanized Steel Sleeves

Cat. No.	Stock No.	B.W.G.	For Use in Tool Groove	Ship. Wt. Lb. per 100
5-083C	(893221)	14	C	1½
5-109D85	(893235)	12	D	2

Galvanized Copper Sleeves

2-083C	(893227)	14	C	1½
2-083D	(893228)	*14	D	1¾
2-134J85	(893240)	10	J	4½
2-148J	(893231)	9	J	4½

For "135" Galvanized Wire Galvanized Steel Sleeve

5-109D135	(893242)	12	D	3
5-109D190	(897166)	12	31D or 31DC	4½

For "190" Galvanized Wire

5-109G190	(895831)	12	41-GD	4½
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For Rusty Iron Wire Galvanized Copper Sleeves

2-102C	(893243)	12	C	1¾
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*Indicates sleeve with larger than standard outside diameter for use in larger tool groove.

For Copperweld Telephone and Telegraph Wire

Solid—high strength and extra high strength.

Catalog No.	Stock No.	A.W.G.	Tool Groove	Ship. Wt. Lb. per C
1-064C	(893206)	14	C	1½
1-080D	(893208)	12	D	1½
1-080E	(893209)	*12	E	2½
3-102D	(895164)	10	D	5½
1-102J	(893214)	10	J	5½
1-114J	(893217)	9	J	5½

*Indicates sleeve with larger than standard outside diameter for use in larger tool-groove.

NICOPRESS REDUCING SLEEVES

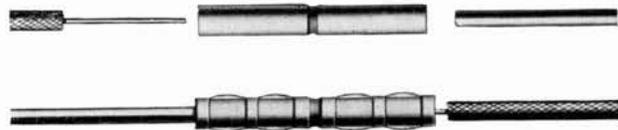
For Galvanized Line Wire to Drop, Bridle, and Inside Wires

Cat. No.	Stock No.	B.W.G. to B. & S.	For Use in Tool Groove	Approx. Ship. Wt. per 100
2-083x036C	(893344)	14 to 19, 20, 22	C	1½
2-083x045C	(893345)	14 to 17, 18	C	1½
2-083x051C	(893346)	14 to 16	C	1½
4-109x045C	(893347)	12 to 17, 18	C	2
2-109x045D	(893348)	12 to 17, 18	D	2
4-109x051C	(893349)	12 to 16	C	2
2-109x051D	(893350)	12 to 16	D	2
4-109x064C	(893351)	12 to 14	C	2
2-109x064D	(893352)	12 to 14	D	2
2-134x051J	(893353)	10 to 16	J	5
2-134x064J	(893354)	10 to 14	J	4¾
2-148x064J	(893355)	9 to 14	J	5½
2-165x064J	(893356)	8 to 14	J	5½

For Galvanized "BB" Line Wire

Cat. No.	Stock No.	B.W.G.	For Use in Tool Groove	Approx. Ship. Wt. per 100
4-109x083C	(893339)	12 to 14	C	1½
2-109x083D	(893340)	12 to 14	D	2
2-134x083J	(893341)	10 to 14	J	3
2-134x109J	(893342)	10 to 12	J	3
2-148x109J	(893343)	9 to 12	J	5

Copper Sleeve



For Copper Wire

Catalog No.	Stock No.	B. & S. Gage	For Use in Tool Groove	Approx. Ship. Wt. per 100
2-045x036B	(893309)	17, 18 to 19, 20, 22	17-2	½
1-064x036C	(893310)	14 to 19, 20, 22	C	1½
1-064x045C	(893311)	14 to 17, 18	C	1½
1-080x036C	(893312)	12 to 19, 20, 22	C	1½
1-080x045C	(893313)	12 to 17, 18	C	1½
1-080x051C	(893314)	12 to 16	C	1½
1-080x064C	(893315)	12 to 14	C	1½
1-102x036C	(893316)	10 to 19, 20, 22	C	1½
1-102x045C	(893317)	10 to 17, 18	C	1½
1-102x051C	(893318)	10 to 16	C	1½
1-102x064C	(893319)	10 to 14	C	1½
1-102x080C	(893320)	10 to 12	C	1½
1-114x036D	(893322)	9 to 19, 20, 22	D	1¾
1-114x045D	(893321)	9 to 17, 18	D	1¾
1-114x051D	(893323)	9 to 16	D	1¾
1-114x064D	(893324)	9 to 14	D	1¾
1-114x080D	(893325)	9 to 12	D	1¾
1-114x102D	(893326)	9 to 10	D	1¾
1-128x051E	(893327)	8 to 16	E	2
1-128x064E	(893328)	8 to 14	E	2
1-128x080E	(893329)	8 to 12	E	2
1-128x102E	(893330)	8 to 10	E	2
1-128x114E	(893331)	8 to 9	E	2
1-162x064J	(893332)	6 to 14	J	3½
1-162x102J	(893333)	6 to 10	J	3½
1-162x114J	(893335)	6 to 9	J	3½
1-162x128J	(893336)	6 to 8	J	3½

NICOPRESS REPAIR SLEEVES

For Replacing Defective Joints



For Copper Wire

Catalog No.	Stock No.	B. & S. Gage	For Use in Tool Groove	Lgth. In.	Approx. Ship. Wt. per 100
R1-080C	(893296)	12	C	7	6
R1-080D	(893297)	*12	D	7	7½
R1-102C	(893298)	10	C	7½	5¼
R1-114D	(893299)	9	D	8	7
R1-114E	(893300)	*9	E	8	9
R1-128E	(893301)	8	E	8	8½
R1-162J	(893302)	6	J	10	16½

*Indicates sleeve with larger than standard outside diameter for use in a larger tool-groove.

For "BB" Galvanized Wire

Catalog No.	Stock No.	B.W.G. Gage	For Use in Tool Groove	Lgth. In.	Approx. Ship. Wt. per 100
R2-083C	(893303)	14	C	7	6
R4-109C	(893304)	12	C	7½	5½
R2-109D	(893305)	*12	D	7½	7
R2-134J	(893306)	10	J	8½	16½
R2-148J	(893307)	9	J	9	16
R2-165J	(893308)	8	J	10	16½

*Indicates sleeve with larger than standard outside diameter for use in a larger tool-groove.

RELIABLE ELECTRIC CO. SPLICING SLEEVES

All types of Reliable Squeez Sleeves except Squeez Taps are internally impregnated with a dispersion of fine, sharp silicon carbide particles to assist holding ability. The patented method is unique and consistent and is used by the largest communi-

cations company in the United States.

The electrical properties of a made-up joint are highly efficient. The resistance of a made-up joint is less than an equal length of wire. This high electrical efficiency is stable.



RELIABLE SQUEEZ SLEEVES

Solid Copper Wire

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
14-C-1	(895448)	14	C	100	1 3/4
12-C-1	(895449)	12	C	100	1 1/2
12-D-1	(895450)	12	D	100	2
10-C-1	(895451)	10	C	100	1 3/4
10-D-1	(895451)	10	D	100	1 3/4
9-D-1	(895452)	9	D	100	1 3/4
8-D-1	(895453)	9	D	100	1 3/4
8-J-1	(895454)	8	J	100	4 1/4
6-J-1	(895455)	6	J	100	4 1/2
4-M-1	(895456)	4	M	50	15 1/4
4-P-1	(895457)	4	P	50	15
2-X-1	(895458)	2	X	50	14 3/4
1-X-1	(895459)	1	X	50	13

Stranded Copper Wire

Cat. No.	Stock No.	AWG	No. of Strands	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
6 Str-J-1	(895473)	6	7	J	100	4 3/4
4 Str-M-1	(895474)	4	7	M	50	6
4 Str-P-1	(895475)	4	7	P	50	9
2 Str-X-1	(895476)	2	7	X	50	14 1/2
2/3 Str-X-1	(895477)	2	3	X	50	12 3/4
3 No. 10-P-1	(895478)	3 No. 10		P	50	19 1/2
4/3 Str-X-1	(895479)	4	3	X	50	14 1/2

*Oversize Sleeve.

3-Strand Copperweld

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
8A-M-1	(895480)	8	M	50	14
8A-P-1	(895481)	8	P	50	16 3/4
6A-P-1	(895482)	6	P	50	17 1/2
6A-X-1	(895483)	6	X	50	29 1/4
4A-X-1	(895484)	4	X	50	27 1/2
3 No. 12-M-1	(895485)	{ 3 No. 12, 8C, 9 1/2 D	M	50	9
3 No. 12-P-1	(895486)	{ 3 No. 12, 8C, 9 1/2 D	P	50	13 1/4
3 No. 10-P-3	(895487)	3 No. 10	P	50	16 1/2

Drop, Bridle and Inside Wire — Copper, Copperweld and Bronze

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
19-22-A-3	(895460)	19-20-22	A	200	1/4
17-18-B-3	(895461)	17-18	B	100	1/2
16-B-3	(895462)	16	B	100	1/2
14-B-3	(895463)	14	B	100	1/2

Solid Copperweld Wire

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
14-C-1	(895448)	14 CW	C	100	1 3/4
12-D-1	(895450)	12 CW	D	100	2
10-D-3	(895464)	10 CW	D	100	2 1/2
10-J-1*	(895465)	10 CW	J	100	5 1/4
9-J-1	(895466)	9 CW	J	100	5
8-J-1	(895454)	8 CW HS	J	100	4 1/4
8-J-3	(895467)	8 CW	J	100	5 1/2
8-M-1*	(895468)	8 CW	M	50	9 1/2
8-P-1*	(895469)	8 CW	P	50	15 1/2
7-M-1	(895470)	7 CW	M	50	10 1/2
6-P-1	(895471)	6 CW	P	50	13
4-X-1	(895472)	4 CW	X	50	25

Galvanized Steel Conductors

Cat. No.	Stock No.	BWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
14-C-2	(895488)	14 BB	C	100	1 1/2
14-C-5	(895489)	14 85	C	100	1 1/2
14-D-2	(895490)	14 BB & 85	D	100	1 3/4
12-C-2	(895491)	12 Old	C	100	1 1/4
12-C-4	(895492)	12 BB	C	100	1 1/4
12-C-5	(895493)	12 BB & 85	C	100	1 1/4
12-D-2	(895494)	12 BB	D	100	1 1/2
12-D-5BB	(895495)	12 BB	D	100	1 1/2
12-D-5	(895496)	12 85	D	100	1 3/4
12-D-5-135	(895497)	12 135	D	100	2 1/2
10-J-2	(895498)	10	J	100	6 1/2
10-J-2-85	(895499)	10 85	J	100	6 1/2
9-J-2	(895500)	9	J	100	4 3/4
8-J-2	(895501)	8	J	100	4 3/4

RELIABLE REPAIR AND TRANSPOSITION SLEEVES

Solid Copper Wire

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
12L-C-1	(895502)	12	C	100	6
12L-D-1	(895503)	12	D	100	7 1/4
10L-C-1	(895504)	10	C	100	5 3/4
10L-D-1	(895505)	10	D	100	6
9L-D-1	(895506)	9	D	100	6 1/2
8L-D-1	(895507)	8	D	100	7 1/2
8L-J-1	(895508)	8	J	100	16 3/4
6L-J-1	(895509)	6	J	100	17 1/4

Galvanized Steel Conductors

Cat. No.	Stock No.	BWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
14L-C-2	(895510)	14	C	100	6
12L-C-4	(895511)	12	C	100	5 1/2
12L-D-2	(895512)	12	D	100	7
10L-J-2	(895513)	10	J	100	17
9L-J-2	(895514)	9	J	100	16 3/4
8L-J-2	(895515)	8	J	100	18 1/2

12s • INSULATORS

Revised 7-15-55

RELIABLE REDUCING SLEEVES Copper to Copper

Cat. No.	Stock No.	AWG	Tool Groove	Ship. Wt. Lbs. Per C
12x17-18-C-1	(895516)	12 to 17-18	C	1 1/2
12x17-18-D-1	(895517)	12 to 17-18	D	1 3/4
12x16-C-1	(895518)	12 to 16	C	1 1/2
12x14-C-1	(895519)	12 to 14	C	1 1/2
12x16-D-1	(895520)	12 to 16	D	1 3/4
12x14-D-1	(895521)	12 to 14	D	1 3/4
10x17-18-C-1	(895522)	10 to 17-18	C	1 1/2
10x17-18-D-1	(895523)	10 to 17-18	D	2
10x16-C-1	(895524)	10 to 16	C	1 1/2
10x16-D-1	(895525)	10 to 16	D	1 3/4
10x14-C-1	(895526)	10 to 14	C	1 1/2
10x14-D-1	(895527)	10 to 14	D	1 3/4
10x12-C-1	(895528)	10 to 12	C	1 1/2
10x12-D-1	(895529)	10 to 12	D	1 3/4
9x17-18-D-1	(895530)	9 to 17-18	D	2
9x16-D-1	(895531)	9 to 16	D	1 3/4
9x14-D-1	(895532)	9 to 14	D	1 3/4
9x12-D-1	(895533)	9 to 12	D	1 3/4
9x10-D-1	(895534)	9 to 10	D	1 3/4
8x16-D-1	(895535)	8 to 16	D	1 3/4
8x14-D-1	(895536)	8 to 14	D	1 3/4
8x12-D-1	(895537)	8 to 12	D	1 3/4
8x10-D-1	(895538)	8 to 10	D	1 3/4
8x9-D-1	(895539)	8 to 9	D	1 3/4
10x12-J-1	(895540)	10 to 12	J	3 1/2
8x16-J-1	(895541)	8 to 16	J	3 1/2
8x14-J-1	(895542)	8 to 14	J	5 1/2
8x12-J-1	(895543)	8 to 12	J	4 3/4
8x10-J-1	(895544)	8 to 10	J	5 1/4
8x9-J-1	(895545)	8 to 9	J	5 1/4
6x14-J-1	(895546)	6 to 14	J	5 1/4
6x10-J-1	(895547)	6 to 10	J	5 1/4
6x9-J-1	(895548)	6 to 9	J	5 1/4
6x8-J-1	(895549)	6 to 8	J	4 3/4
6 Str. to 6-J-1	(895550)	6 to 6-7 Str.	J	4
4x6-P-1	(895551)	4 to 6	P	8
4x6-M-1	(895552)	4 to 6	M	8 1/2
4 Str. x4-M-1	(895553)	4 to 4-7 Str.	M	8 1/2
2x4-T-1	(895554)	2 to 4	T	11
2x4 Str.-T-1	(895555)	2 to 4-7 Str.	T	11

Copperweld to Copperweld

Cat. No.	Stock No.	AWG	Tool Groove	Ship. Wt. Lbs. Per C
10x12-C-1	(895552)	10 to 12	C	1 1/2
10x12-D-1	(895553)	10 to 12	D	1 3/4
10x12-J-1	(895554)	10 to 12	J	4 1/4
9x10-J-1	(895555)	9 to 10	J	3 3/4
8x10-J-1	(895556)	8 to 10	J	3 1/2
8x9-J-1	(895557)	8 to 9	J	3 1/2
6x8-J-1	(895558)	6 to 8	P	15
6Ax8A-P-1	(895559)	6A to 8A	P	16

Steel to Steel

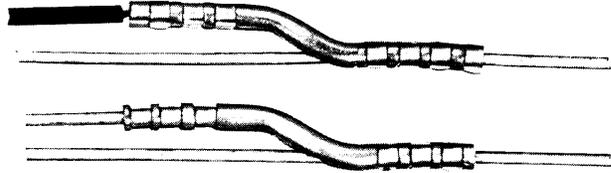
Cat. No.	Stock No.	BWG	Tool Groove	Ship. Wt. Lbs. Per C
12x14-C-4	(895560)	12 to 14	C	1 1/4
12x14-D-2	(895561)	12 to 14	D	2
10x14-J-2	(895562)	10 to 14	J	3
10x12-J-2	(895563)	10 to 12	J	4 3/4
9x12-J-2	(895564)	9 to 12	J	5
9x10-J-2	(895565)	9 to 10	J	4
8x10-J-2	(895566)	8 to 10	J	4 1/2
8x9-J-2	(895567)	8 to 9	J	4 1/2

Steel to AWG Drop Wire

Cat. No.	Stock No.	BWG to AWG	Tool Groove	Ship. Wt. Lbs. Per C
14x17-18-C-21	(895568)	14 17-18	C	1 3/4
14x16-C-21	(895569)	14 16	C	1 3/4
12x17-18-C-41	(895570)	12 17-18	C	1 1/2
12x17-18-D-21	(895571)	12 17-18	D	1 1/2
12x16-C-41	(895572)	12 16	C	1 3/4

Cat. No.	Stock No.	BWG to AWG	Tool Groove	Ship. Wt. Lbs. Per C
12x16-D-21	(895573)	12 16	D	1 3/4
12x14-C-41	(895574)	12 14	C	2
12x14-D-21	(895575)	12 14	D	2
10x17x18-J-21	(895576)	10 17-18	J	5
10x16-J-21	(895577)	10 16	J	5
10x14-J-21	(895578)	10 14	J	4 3/4
9x17-18-J-21	(895579)	9 17-18	J	4 3/4
9x16-J-21	(895580)	9 16	J	4 3/4
9x14-J-21	(895581)	9 14	J	5 3/4
8x16-J-21	(895582)	8 16	J	5 1/2
8x14-J-21	(895583)	8 14	J	5 1/2

RELIABLE SQUEEZ TAPS



Copper, Copperweld and Bronze

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
T-17-18-B-2	(895584)	17, 18 to 17, 18	B	100	1/2
T-14-16-B-2	(895585)	14, 16 to 14, 16	B	100	1/2
T-12-C-1	(895586)	12 to 12	C	100	2
T-12x17-18-C-1	(895587)	12 to 17, 18	C	100	2
T-12x14-16-C-1	(895588)	12 to 14, 16	C	100	2
T-10-D-1	(895589)	10 to 10	D	100	2 1/2
T-10x17-18-D-1	(895590)	10 to 17, 18	D	100	2 1/2
T-10x14-16-D-1	(895591)	10 to 14, 16	D	100	2 1/2
T-10x12-D-1	(895592)	10 to 12	D	100	2 1/2
T-9-D-1	(895593)	9 to 9	D	100	2 1/2
T-9x17-18-D-1	(895594)	9 to 17, 18	D	100	2 1/2
T-9x14-16-D-1	(895595)	9 to 14, 16	D	100	2 1/2
T-8-D-1	(895596)	8 to 8	D	100	2 1/2
T-8x17-18-D-1	(895597)	8 to 17, 18	D	100	2 1/2
T-8x14-16-D-1	(895598)	8 to 14, 16	D	100	2 1/2
T-8-J-1	(895599)	8 to 8	J	100	3
T-8x14-16-J-1	(895600)	8 to 14, 16	J	100	3 1/4
T-6-J-1	(895601)	6 to 6	J	100	3
T-6x14-16-J-1	(895602)	6 to 14, 16	J	100	3

Steel to Copper, Copperweld and Bronze

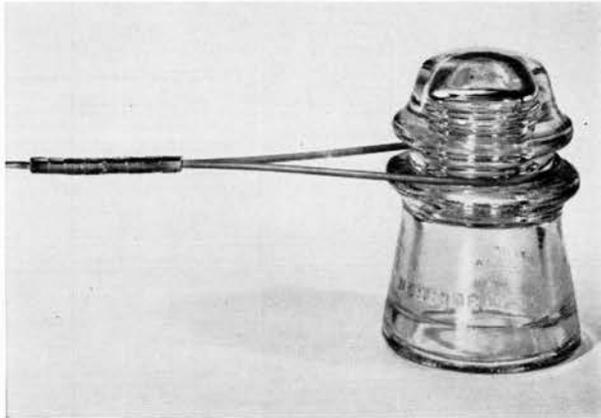
Cat. No.	Stock No.	BWG to AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
T-14x17-18-C-2	(895603)	14 17, 18	C	100	2
T-12x17-18-D-2	(895604)	12 17, 18	D	100	2 1/2
T-12x14-16-D-2	(895605)	12 14, 16	D	100	2 1/2
T-10x17-18-J-2	(895606)	10 17, 18	J	100	3 1/4
T-10x14-16-J-2	(895607)	10 14, 16	J	100	3 1/4
T-9x17-18-J-2	(895608)	9 17, 18	J	100	3 1/4
T-9x14-16-J-2	(895609)	9 14, 16	J	100	3 1/4
T-8x14-16-J-2	(895610)	8 14, 16	J	100	3 1/4
T-8x12-J-2	(895611)	8 12	J	100	3 1/4

Steel to Steel

Cat. No.	Stock No.	BWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
T-14-C-2	(895612)	14 to 14	C	100	2
T-12-D-2	(895613)	12 to 12	D	100	2 1/2
T-12x14-D-2	(895614)	12 to 14	D	100	2 1/2
T-10-J-2	(895615)	10 to 10	J	100	3
T-9-J-2	(895616)	9 to 9	J	100	3
T-8-J-2	(895617)	8 to 8	J	100	3

STROMBERG-CARLSON

RELIABLE SQUEEZ DEAD-ENDS



Reliable Squeeze deadends consist of a Squeeze splicing sleeve with a factory-assembled loop (bail) in one end. The other end is for the line wire, and only the line wire is installed by the lineman. The loop, or bail, is a specially prepared, high strength, D-shaped stainless steel wire which is factory-assembled to one-half of the sleeve. Thus you have a prefabricated loop deadend ready for insulator or deadend fixture. In the case of deadending on a strain insulator, these deadends may be ordered separately of the loops. The lineman can assemble the bail and sleeve on the job. The groove marked on the sleeve for the wire is to be used when compressing bail into sleeve.

Copper Conductors

Cat. No.	Stock No.	AWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
DE-12-C-1	(895618)	12	C	25	3
DE-12-D-1	(895619)	12	D	25	3
DE-10-C-1	(895620)	10	C	25	3
DE-10-D-1	(895621)	10	D	25	3
DE-9-D-1	(895622)	9	D	25	3
DE-8-J-1	(895623)	8	J	25	7
DE-6-J-1	(895624)	6	J	25	7
DE-6STR-J-1	(895625)	6-7 Str.	J	25	7

Copperweld Conductors

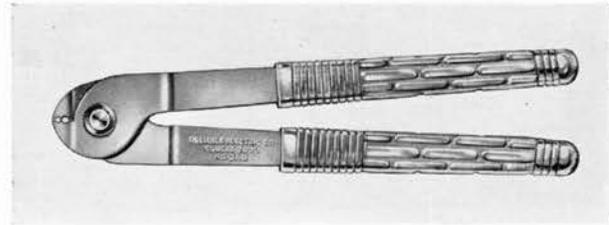
Cat. No.	Stock No.	BWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
DE-12-D-1	(895626)	12 CW	D	25	3
DE-10-D-3	(895627)	10 CW	D	25	4
DE-10-J-1	(895628)	10 CW	J	25	7
DE-9-J-1	(895629)	9 CW	J	25	7
DE-8-J-3	(895630)	8 CW	J	25	7 1/2
DE-8-M-1	(895631)	8 CW	M	25	11
DE-8-P-1	(895632)	8 CW	P	25	7
DE-7-M-1	(895633)	7 CW	M	25	11
DE-6-P-1	(895634)	6 CW	P	25	7

Galvanized Steel Conductors

Cat. No.	Stock No.	BWG	Tool Groove	Std. Pkg.	Ship. Wt. Lbs. Per C
DE-14-C-4	(895635)	14 BB & 85	C	25	3
DE-14-D-2	(895636)	14 BB & 85	D	25	3
DE-12-C-4	(895637)	12 BB	C	25	3
DE-12-C-5	(895638)	12 BB & 85	C	25	3
DE-12-D-2	(895639)	12 BB	D	25	3
DE-12-D-5(BB)	(895640)	12 BB	D	25	3 1/2
DE-12-D-5(85)	(895641)	12 85	D	25	3 1/2
DE-12-D-5(135)	(895642)	12 135	D	25	5
DE-10-J-2	(895643)	10 BB & 85	J	25	7
DE-9-J-2	(895644)	9 BB & 85	J	25	7
DE-8-J-2	(895645)	8 BB & 85	J	25	7

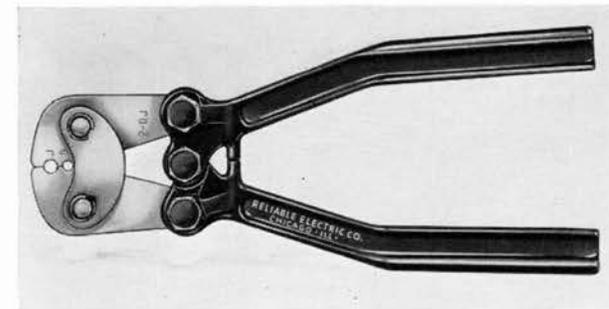
RELIABLE SQUEEZ TOOLS

Reliable compression tools with integral standard dies are superbly designed toggle action tools of high quality. They are factory adjusted and have generous, comfortable handles. All critical dimensions are maintained to close tolerances. Jaws, with die grooves, and the linkages are special heat treated alloy steel. Handles are drop forged steel. The tools with standard die grooves in pairs (2 dies per tool) handle all sizes and types of sleeves and wires No. 1 Sol. to No. 22. Tools are cataloged and are available in die groove combinations to suit the user's wire size practices.



A six ounce, heat treated steel tool with comfortable plastic handle grips for use with all sleeves having "A" or "B" in catalog numbers.

Cat. No.	Stock No.	Grooves	Sleeves Accommodated	Lgth.	Ship. Wt.
3-BA	(895646)	B and A	Sleeves with A or B in Cat. No.	8 1/2"	6 oz.



A rugged toggle type tool with drop forged steel handles and special heat treated alloy steel jaws and standard die grooves. Applies pressure with ease and positive closure. For use with all sleeves having letters C, D or J in catalog numbers and available in die groove combinations CD, CJ or DJ.

Cat. No.	Stock No.	Grooves	Sleeves Accommodated	Lgth.	Ship. Wt.
2-DD	(895647)	D and D	Sleeves with DT-2 or D in Cat. No.	12"	3
2-DC	(895648)	D and C	Sleeves with C or D in Cat. No.	12"	3
2-CJ	(895649)	C and J	Sleeves with C or J in Cat. No.	12"	3
2-DJ	(895650)	D and J	Sleeves with D or J in Cat. No.	12"	3

SEYMOUR-SMITH NO. 12 AND NO. 11 TELEPHONE TREE PRUNERS



Strong, durable tree pruners with reinforced head. Tempered steel cutting blade. Compression coil spring. Selected spruce poles with positive locking, seamless brass, telescoping ferrule joints. Steel cable chain works through ball bearing pulley. Simple, powerful action.

For heavy duty, up to 1½" capacity, the No. 12-18 Complete Pruner is recommended. Consists of No. 12 Pruner Head, No. 202 Head Section Pole, two No. 203 Extension Poles, and Operating Rope. For average work, up to 1" capacity, the No. 11-18 Complete Pruner is recommended. Consists of No. 11 Pruner Head, No. 102 Head Section Pole, two No. 103 Extension Poles, and Operating Rope.

Cat. No.	Stock No.	Description	Ship. Wt. Pounds
12-18	(892206)	Complete Pruner with rope, 18' pole	19
12	(892207)	Telephone Pruner Head only.	4
11-18	(892200)	Complete Pruner with rope, 18' pole	10
11	(892201)	Telephone Pruner Head only.	1½

For making up a very long pole, it is advisable to use the large Extension Section Poles (No. 203) for the lower sections. To join small poles to the large poles, it is necessary to use either the No. 21 Tapered Extension Section or the No. 51 Tapered Head Section Pole.

SEYMOUR SMITH "TELEPHONE" POLE PRUNING SAW

No. 20-18 Complete Saw

An improved pole pruning saw for line clearing. Has unbreakable aluminum alloy head with extra large hook for pulling out loose branches. Also has paint brush holder. Saw blade 16" long of highest quality steel, taper ground, with fast-cutting needle teeth. Attached to head by bolt and thumb nut. Holes in blade end, which fit over a hardened steel screw, allow adjustment to three different positions. No weak pin to shear off.

No. 20-18 Complete Saw with 18 ft. pole. Comprised of No. 20 Saw Head, one Head Section Pole No. 102, and two Extension Poles No. 103. Shipping Weight 10 lbs. Stock No. (894824)



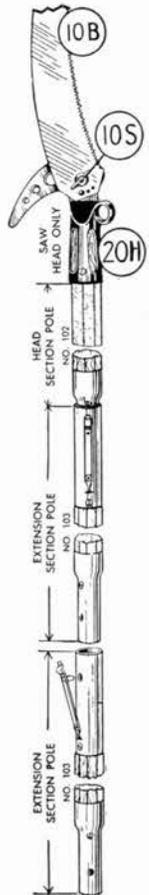
Repair Parts and Poles

- 10B Cutting Blade only
- 10S Bolt, Wing Nut and Lock Washer
- 20H Head Casting only
- 102 Head Section Pole 6 ft.
- 103 Extension Pole 6 ft.

NOTE: When ordering parts, please specify both Part Number and Part Name.

No. 20 Saw Head

No. 20 Saw Head only with blade. Shipping weight 1½ lbs. Stock No. (394825)



TELEPHONE TREE PRUNER PARTS

Sectional Poles Only

For No. 12 Pruner Part No.	For No. 11 Pruner Part No.
202—Head Section Pole, complete, 6 ft. long.....	102
203—Extension Section Pole, complete, 6 ft. long.....	103
* 51—Tapered Head Section Pole, 6 ft. long.....	* 51
† 21—Tapered Extension Pole, 6 ft. long.....	21

Notes

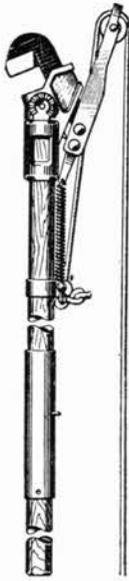
* If desired to use the No. 11 (small) Pruner Head or the No. 20 Saw Head with the No. 203 (large) extension pole, use a No. 51 Tapered Head Section for mounting the Pruner or Saw Head.

† If desired to use the No. 102 (small) Head Section Pole with a No. 203 (large) Extension Section, use a No. 21 Tapered Extension Section in between.

Repair Parts

For No. 12 Pruner Part No.	For No. 11 Pruner Part No.
121—Head Casting only	111
122—Operating Lever only	
123—Lever Screw with nut and washer	
124—Blade Bolt with nut and washer.....	114
125—Spring Bolt with nut and washer.....	113
126—Spring with Eye Rod (2 needed per pruner)	
Spring with Eye Rod.....	115
127—Cutting Blade.....	116
128—Operating Pulley with bolt and nut.....	117
129—Socket Bolt with nut.....	118
120—Operating Chain with Ring and Cotter Pin.....	110
Short Ferrule with Rope Guide and Rivet.....	19
Long Ferrule with Lock and Rivet.....	100
Short Ferrule with Rivet.....	101

Revised 1-1-57



No. 700

NO. 700 FEATHERWEIGHT TRIMMER

Our No. 700 Trimmer is designed for lighter work than the Nos. 800 and 900. It is a very light weight tool and yet makes a 1" cut, and is especially adapted for topping or work in the tree. This trimmer has single action pulley design. This is an ideal tool for home owners, nurseries, tree surgeons, park departments, etc.; unit of sale is head section and end section, 10' overall. Additional center section can be secured. All handles are 1 1/4" diameter. All pulleys are ball bearings for easier operation.

Specifications

Cat. No. 700—10' Overall, weight 4 3/4 pounds.
Stock No. (894621)

Parts

Cat. No. 875—Center Ext. Handle 5', wt. 1 3/4 lbs.
Cat. No. 750—Replacement Blade, wt. 3/8 lb.
Cat. No. 885—End Ext. Handle 5', wt. 1 3/4 lbs.

NO. 800 BANTAM WEIGHT TRIMMER

The Newman No. 800 Trimmer was designed for lighter work than the No. 900 would be used for and yet having the same compound leverage. This tool is light enough for horizontal use in the tree.

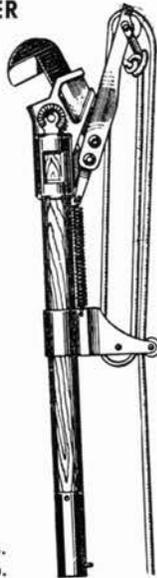
Cutting capacity a full inch and using 1 1/4" diameter handles. Unit of sale is 10' overall, consisting of head or cutting section 5' and end extension 5'. For longer use, 5' center extensions may be had. All pulleys are ball bearing for easier operation.

Specifications

Cat. No. 800—10' Overall, weight 5 1/4 lbs.
Stock No. (894622)

Parts

Cat. No. 875—Center Ext. Handle 5', wt. 1 3/4 lbs.
Cat. No. 750—Replacement Blade, wt. 3/8 lb.
Cat. No. 885—End Ext. Handle 5', wt. 1 3/4 lbs.



No. 800

"EZY-CUT" LONG HANDLED PRUNER

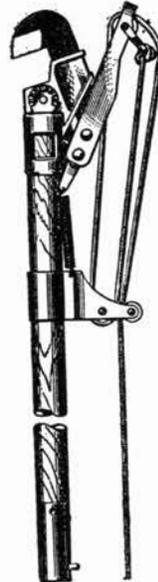


A rugged performer for all tough clearing and brush cutting jobs. Drop forged, tempered steel cutting parts. Selected ash handles with heavy ferrules. Cuts up to 2" brush and limbs.

Cat. No.	Stock No.	Description
25	(892231)	22" handles, length overall, 28"
26	(892232)	30" handles, length overall 36"

Packed 1 doz. in shipping carton. Shipping wts. per doz. No. 25, 53 lbs.; No. 26, 78 lbs.

NO. 900 HEAVY DUTY TRIMMER



No. 900

This trimmer employs a wholly new principle in that it cuts from the top down rather than the bottom up—with the law of gravity rather than against it. Furthermore, the cutting action is a cyclic motion—point first, then heel—then the blade cleaves through the last of bark. This tool features the Newman compound leverage—plus ball bearing pulleys.

It is impossible to get this tool stuck or wedged in a limb—because there is no place for bark and sap to lodge.

Makes full 1 1/2" cut because cutting action is from outside in rather than inside out. All handles 1 1/2" diameter, 5' long. Unit of sale head section and end extension. 10' overall. Additional center sections may be had.

Specifications

Cat. No. 900—10' Overall, weight 6 1/2 pounds.
Stock No. (894623)

Parts

Cat. No. 975—Center Ext. Handle 5', wt. 2 lbs.
Cat. No. 950—Replacement Blade, wt. 1/2 lb.
Cat. No. 985—End Ext. Handle 5', wt. 2 lbs.

NO. 1550-2 XELA ELECTRICIANS' KNIVES



A handy combination for the electrician, combining an emergency screwdriver, a knife blade for cutting or stripping wire; safely locked so that it cannot close during use. Well-tempered blade, strong joint, solid, well-proportioned, hand fitting handle and a lock to keep the blade safely open, yet promptly releasable when it is desired to close the blades.

Screwdriver blade is locked when open; to unlock press down on large blade. Stock No. (892512)

JOSLYN FORGED STEEL BUSH HOOKS Single Edge — Strap Style



Built for clearing work that is too heavy for a scythe and not suited for an axe. Heavy duty, high carbon steel blades automatically tempered. Sharp beveled edges. Bright red enameled blade with blue metallic blade stamp. 36" oval hickory handles with beveled butt. White lacquer finish. Packed 6 per carton.

Cat. No.	Stock No.	Head Weight	Point Size	Cutting Edge	Handle Pattern	Weight Each
100	(897241)	3 1/2 lbs.	3 1/2"	11"	36" Bent	4 3/4 lbs.

STROMBERG-CARLSON

PRUNING SAWS
No. 40—Tuttle Tooth

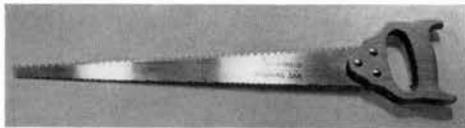


Special steel, high grade, tuttle tooth pattern. Has extra sharp teeth, which hold edge longer due to their extra fine temper. Handle of air dried beech, Davey pattern. Extra large and roomy grip reinforced with dowel pin. Fully lacquered and polished. Fastened to handle with 3 brass screws and medallion.

Packed 6 in a box.

Cat. No.	Stock No.	Lgth. Inches	Width Point In.	Width Butt Inches	Wt. Lb. per Doz.
40	(892236)	20	1 1/8	5 1/2	17
40	(892237)	24	1 1/2	6 3/4	21

NEWMAN DOUBLE EDGE SAW



This double edge saw provides crosscut teeth on one side and fine teeth on the other for finish stroke and barking. Blade: 18" long. Width at butt: 2 1/4". Width at point: 7/8".

Cat. No.	Stock No.	Packaged	Weight
118	(897240)	1/3 doz. per carton	10 lbs. per doz.

NO. 22 CURVED PRUNER



Silver steel with teeth on concave edge only. Blade has smooth back. Rip teeth cut on the full, filed and set. Extra large beech handle grip, fully lacquered and polished. 3 nicked screws.

Packed 4 in a box.

Length Inches	Stock No.	Points per In.	Width Point In.	Width Butt In.	Wt. Lb. per Doz.
18	(894741)	6	1 1/8	3 1/8	13
22	(894742)	6	1 1/8	3 3/8	16
24	(894743)	6	1 1/8	3 3/8	18

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

IWAN AUGER BLADES
Less Handle



Adapted for use with Blackburn's telescope handle. These blades have two sharp cutting edges formed in such a manner as to both cut and hold the earth as they are rotated. The result is a clean-cut round hole. These may be ordered with handles.

Cat. No.	Stock No.	Diam. Hole Inches	Weight Pounds
5	(892299)	5	4
6	(892300)	6	6
7	(892301)	7	7
8	(892302)	7	7
10	(892303)	10	8
12	(892304)	12	14

EVERSTICK STANDARD
EARTH AUGERS

Less Handle



Adapted for use with Blackburn's telescope handle.

Cat. No.	Stock No.	Diam. Hole Inches	Weight Pounds
8	(892292)	8 to 14	28 1/2
5	(892293)	5 to 8	28 1/2

CHANCE TELESCOPIC TRIP AUGER
Complete with Handles

An efficient, economical tool for boring holes for poles, guy anchors, etc. Every twist of the handle pulls the blades into the ground like a carpenter's auger.

The separate extension blade on the No. 812 auger is adjustable to diameters from 8 to 12 3/4 inches, so that it is possible to bore seven different size holes to a depth of 8 feet with the same auger.

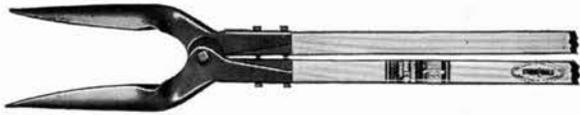


Telescoping Augers
Complete with Handles

Depth of Hole, 5' to 8'.	Cat. No.	Stock No.	Dia. of Hole	Wt. Each
	610	(892294)	6 1/2" to 8 1/2"	26
	812	(892295)	8" to 12 3/4"	28

Revised 1-1-57

PERFECTION POST HOLE DIGGERS

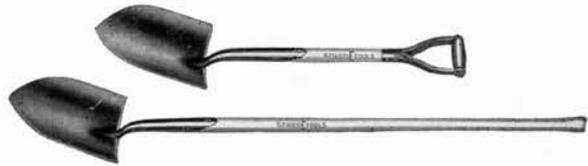


Regular Pattern Complete with Handles

Blade is 13 gage, 13½ inches long and 7 inches wide; painted orange and black. Ash handles, lacquer finish.

Catalog No.	Stock No.	Length Handle Ft.	Wt. Lb.
439	(892282)	4	10
440	(892283)	7	12
441	(892284)	8	13

ROUND POINT SHOVELS



Plain back, strap pattern. Flexsteel quality, heat treated. A grade, 15-gauge blade, X grade handles, sanded and waxed. Black finish blades. Blade approximately 9 x 12 inches.

Cat. No.	Stock No.	Size No.	Description	Handle In.	Wt. Lb.
823	(892334)	2	D Handle	24	5
826	(892335)	2	Long Handle	46½	5

SHOVELS—STRAIGHT WOOD HANDLES



Plain Black—Strap Pattern

Hickory or Ash

Strap 22 inches; Blade 9 x 12 inches.

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
16	(892312)	7	8
17	(892313)	8	9
18	(892314)	9	10
19	(892315)	10	11

SPOONS

Plain back, strap pattern. Flexsteel quality, heat treated, 13-gauge blade. XX grade handles, sanded and waxed. Black finish blades.

Eastern Pattern



Hickory or Ash Handles

Strap 22 inches; Blade 9½ x 10 ½ inches.

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
A55	(892339)	6	7
55	(892340)	7	8
56	(892341)	8	9
57	(892342)	9	10
58	(892343)	10	11
58A	(892344)	12	13

Western Pattern



Hickory or Ash Handles

Strap, 22 inches; Blade 8½ x 9¾ inches.

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
49	(892349)	6	7
50	(892350)	7	8
51	(892351)	8	9
52	(892352)	9	10
53	(892353)	10	11
54	(892354)	12	13

**CHANCE SAFETY
REVERSIBLE POINT PIKE POLE**



A new safety innovation is the Chance Pike Pole with removable point. The point is made in a separate piece, flat on one end with a gimlet point on the other. A spring catch on the side of the point holds it in place when slipped into the end of the ferrule on the pole.

Made of Douglas or Western Fir, free from all defects, and lacquer finished. The ferrule is made of high grade malleable iron. Removable pike point is made of steel, heat treated. Ferrule and pike may be purchased separately.

Cat. No.	Stock No.	Dia. and Length	Wt. Each
210P	(892431)	2"x10'	8 lbs.
212P	(892432)	2"x12'	9 lbs.
214P	(892433)	2"x14'	11 lbs.
216P	(892434)	2"x16'	13 lbs.
218P	(892435)	2"x18'	15 lbs.
220P	(892436)	2"x20'	17 lbs.

OCTAGON TAMPING AND DIGGING BARS



Double beveled cutting blade at one end; fitted with heavy iron tamping shoe, painted blue.

Cat. No.	Stock No.	Diam. In.	Lgth. Ft.	Wt. Lb.
408	(892260)	1	7	20
409	(892261)	1	8	25
411	(892262)	1 1/8	7	25
412	(892263)	1 1/8	8	30

These poles are made of selected Douglas or Western fir, free from all defects. This timber is especially adapted to pike poles. Has the strength of ash, yet is light in weight.

Pikes are of 1 3/16-inch round crucible steel of the collar pike

Light Pattern



These poles are 2 inches in diameter, not tapered.

Cat. No.	Stock No.	Length Feet	Wt. Lb.
205	(892405)	12	9
206	(892406)	14	11
207	(892407)	16	13
208	(892408)	18	15
209	(892409)	20	17

CHANCE EXPANDING AND TAMPING BAR



Wherever expanding anchors are used, the Chance Expanding and Tamping Bar should be used also because it simplifies the expanding job. The hook wraps around the anchor rod. This keeps the tamping from slipping off the anchor top plate and consequently makes expanding easier and quicker.

The base is a "Duramel" casting attached to the hard maple handle by two heavy strips of steel.

Cat. No.	Stock No.	Length	Approx. Wt. Each
10	(892307)	10'	24
10-H	(892308)	10' Heavy	27
12	(892309)	12'	28
12-H	(892310)	12' Heavy	33 1/2

A. T. & T. PATTERN TAMPING BARS



Select maple handle 1 1/8 inches in diameter, tapered at lower end; fitted with extra heavy one-piece shoe, made of 5/8 x 1 1/4-inch side straps; bottom, 1 1/4-inch square steel. Rivets passing through the handle and shoe with heads countersunk, hold the shoe firmly in place. An extremely high grade tamper.

Tamping end dipped in creosote to prevent decay, then painted blue. Handle smoothly sand finished.

Cat. No.	Stock No.	Length Feet	Wt. Lb.
421	(892272)	7	12
422	(892273)	8	13

PIKE POLES

design with sharp points. They are set in creosote.

Ferrules are made of steel tubing, riveted securely, passing through ferrule and pike, holding the pike firmly in the pole.

All poles are smoothly sand finished. Metal parts painted blue.

A. T. & T. Pattern



Diameter at center, 2 1/2 inches, tapering to 2 inches at ends. This gives extra strength at center where needed with very little increase in weight.

Cat. No.	Stock No.	Length Feet	Wt. Lb.
219	(892410)	12	12
220	(892411)	14	14
221	(892412)	16	16
222	(892413)	18	18
223	(892414)	20	20

JENNY SUPPORTS



Made very strong for raising wooden poles. The best selected hardwood is used in this support.

The fork is of crucible steel; heavy braces and bolts make it very serviceable.

Spikes are bolted to each leg to avoid slipping.

Shipped knocked down.

Cat. No.	Stock No.	Lgth. Ft.	Wt. Lb.
301	(892453)	6	25
302	(892454)	7	30
303	(892455)	8	35

RAISING FORKS, GUARDED PIKE POLES



Made of selected Douglas or Western fir with malleable iron ferrule and fork in one piece, driven onto pole and secured by a rivet.

Handles are furnished in two sizes, the 2-inch are parallel and the 2½-inch are tapered to 2 inches at the ends.

Metal parts painted blue.

Cat. No.	Stock No.	Length Feet	Diam. In.
226	(892415)	10	2
227	(892416)	12	2
228	(892417)	14	2
229	(892418)	16	2½
230	(892419)	18	2½
231	(892420)	20	2½

CARRYING OR LUG HOOKS



Handles of selected air seasoned hickory and hard maple with hand turned knobs, smoothly sand finished.

Hooks are crucible steel, hung in heavy malleable iron clasp and swivel. Metal parts painted blue.

W.U. Pattern Hickory

Diameter handle, 3 inches.

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
112	(892381)	5	12
113	(892382)	6	14
114	(892383)	7	16

CANT HOOKS



Handles of selected air seasoned hickory and hard maple with hand turned knobs. Smooth sand finished.

Hooks are crucible steel with duck bill points, hung in heavy malleable iron clasp.

Toe rings are malleable iron.

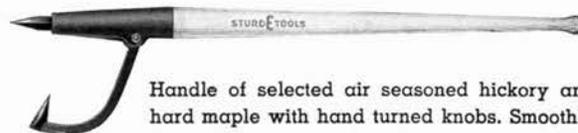
Metal parts painted blue.

Diameter handle 2½ inches.

Hickory

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
118	(892393)	4	7½
119	(892394)	4½	8
120	(892395)	5	8½

PEAVIES



Handle of selected air seasoned hickory and hard maple with hand turned knobs. Smoothly sand finished. Malleable iron sockets and crucible steel hooks with duck bill points. Pikes

are of crucible steel and driven in. Metal parts painted blue. Diameter handle, 2½ inches.

Hickory

Cat. No.	Stock No.	Handle Ft.	Wt. Lb.
124	(892369)	4	8
125	(892370)	4½	9
126	(892371)	5	10

CHANCE POLE TONGS



Work like giant pliers, allowing one man to guide and control the installation of a pole. Applying pressure to keep the tongs closed, a workman controls the forward, backward and rotation movement of a pole as it is lowered by a winch line.

The adjustable jaws permit the tong to fit securely on poles from 7 to 18 inches diameter. Seasoned hickory handles, three feet long, keep the workman well away from the pole.

Catalog No.	Stock No.	Handle Length	Approx. Wt.
C-200-T	(895666)	3 ft.	14½ lbs.

NO. 5197 PAY-OUT AND TAKE-UP REELS



Designed to pay out drop wire, and also to take up wire. It is demountable and can be used in a vertical or horizontal plane when removed from the vehicle.

The outer spider is removable and adjustable with a plunger type lock. This permits the placing of coils as well as the removal of same from the reel.

A variable tension brake controls the paying out speed of the wire.

Made of malleable castings, and high grade steel. It will take a coil of wire

having an inside diameter of 15 inches.

Cat. No.	Stock No.	Inside Coil Diam. In.	Wt. Lb.
5197	(892461)	15	32

SQUIRREL CAGE REEL



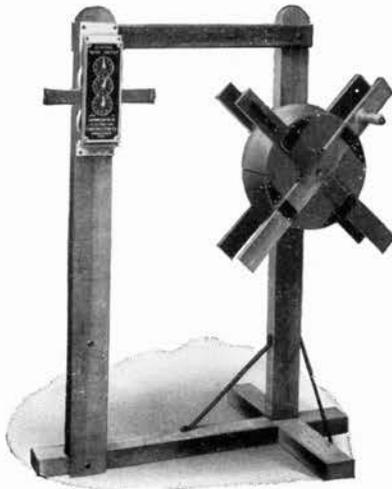
This squirrel cage reel controls stiff, stubborn wire strand cable which is difficult to handle on ordinary reels. Can be mounted on trucks either horizontally or vertically. Strong steel welded construction, light weight. Furnished with adjustable fingers, friction brake and handle for takeup.

Cat. No. 400
Stock No. (897244)

Specifications

Cage Diameter OD.....	40 inches
Cage Inside Diameter OD.....	37 inches
Width of Cage Diameter.....	16 inches
Over-all Width.....	16 inches
Inside Coil Adjustment.....	16 inches to 29 inches
Width of Coil Range.....	3 inches to 10 inches
Weight	70 lbs.

FSA WIRE REEL WITH METER



A machine for measuring the various sizes of Wire, Cordage, etc. It will save time and money and in a short time will demonstrate its great value.

In the meter the wire passes between two self-adjusting rollers which admit of wide range, and will measure accurately large or small sizes. The pointers are movable and readily adjusted to zero point. Takes up to 3/4 in.

The Reel is provided with removable cross bars, and the drum with grooves so the coil can be bound with tie wires and removed in compact form. The meter shows the number of feet in the coil and does away with measuring on the floor.

The Reel and Meter, being movable and occupying small space, can be placed where convenient for measuring and set aside when not in use.

Capacity of reel, 1,000 ft. of No. 14 B. and S. gauge. Other sizes in proportion. Stock No. (894772)

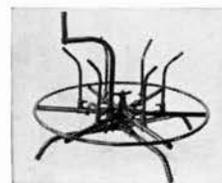
STORE ROOM REEL



This Storeroom Reel takes any size of wire or cable without adjustments. It has free, easy running because of an excellent bearing arrangement. Saves time and labor. It can be easily moved because of its light weight. It will not tip as the legs are widely spaced. Strong welded smooth construction permits the wire to be pulled off without kinks or tangles, leaving a compact coil for storage. Comes equipped with attachment to hold meter.

Cat. No.	Stock No.	Dimension	Weight
800	(897243)	40" tall, 34" wide	42 lbs.

TAKE-UP REEL



No. 4T Reel has four short 8 in. legs on which it stands. It is equipped with 6 fingers and a handle crank for paying out as well as taking up wire. This type is not to be mounted but will stand on the ground or in a truck bed to pay out wire.

Cat. No.	Stock No.	Description	(I.D.) Coil Size	Wt. lbs.	Size Ring	Ht.
4T	(897242)	4-leg Payout-Takeup	14" to 22"	41	34"	24"

GUY WIRE DISPENSER



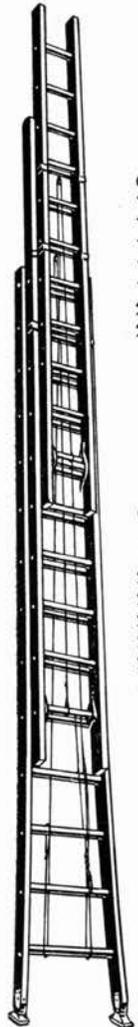
This dispenser feeds guy wire smoothly by eliminating whipping of the strand ends. It is simple and safe to operate. The steel dispenser will accommodate every standard type of coil.

The unit may be suspended on a truck by its ring holder or may be used in the horizontal position with equal efficiency. It may also be used for storing partially used rolls.

Coil is easily loaded into this dispenser by removing a wing nut and spreading the two top bars. After the coil is in place, replace the bars and wing nut and cut the wires binding the coil. The strand is fed from the center of the coil.

Catalog No.	Stock No.	Description	Weight
3001	(895685)	Guy Wire Dispenser	21 lbs.

DUO-SAFETY EXTENSION AND STEP LADDERS



Type D

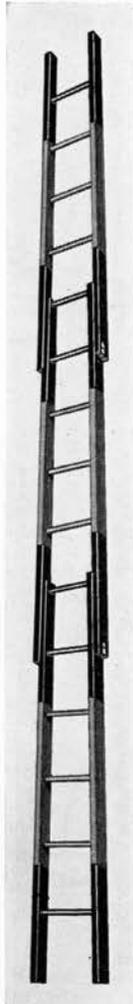
One Section

Cat. No.	Stock No.	Size
10-D1	(894683)	10'
12-D1	(894684)	12'
14-D1	(894685)	14'
16-D1	(894686)	16'
18-D1	(894687)	18'
20-D1	(894688)	20'
22-D1	(894689)	22'

Two Section

Cat. No.	Stock No.	Size
16-D2	(894690)	16'
18-D2	(894691)	18'
20-D2	(894692)	20'
22-D2	(894693)	22'
24-D2	(894694)	24'
26-D2	(894695)	26'
28-D2	(894696)	28'
30-D2	(894697)	30'

NOTE: Larger Sizes available on request. Complete line of aluminum extension and step ladders available on request.



Type E

Type C—Step Ladders

The Type C is strong, lightweight and well constructed. It is designed especially for general maintenance work featuring improved rung back construction, and has all steps trussed with steel rods.

Cat. No.	Stock No.	Over-all Height	Work Height	Weight
5-C	(897203)	5'	11'	18 lb.
6-C	(897204)	6'	12'	22 lb.
7-C	(897205)	7'	13'	26 lb.
8-C	(897206)	8'	14'	30 lb.
10-C	(897207)	10'	16'	37 lb.
12-C	(897208)	12'	18'	45 lb.
14-C	(897209)	14'	20'	52 lb.
16-C	(897210)	16'	22'	60 lb.

Type D—Extension Ladders

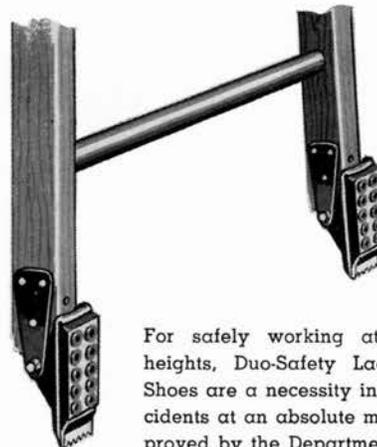
A really great ladder is Duo-Safety's Type "D", suitable for all the straight or extension ladder requirements of heavy industry. Type D is built in accordance with approved safety standards, has rungs of second growth hickory reinforced by steel rods, and equipped with special automatic locks and Duo-Safety ladder's famous Safety Shoes. Available in one, two and three section ladders.

Type E—Section Ladders

Designed primarily for Telephone and Telegraph Companies, Type "E" is a sectional ladder which can be easily stored in a small space in Utility trucks. Sketch shows the steel reinforcing of the dovetail pronged section ends. Type "E" is an exceptionally useful and versatile ladder, built to withstand the most severe usage. Available in either special or natural finishes.

Type E Stock No. (894698)

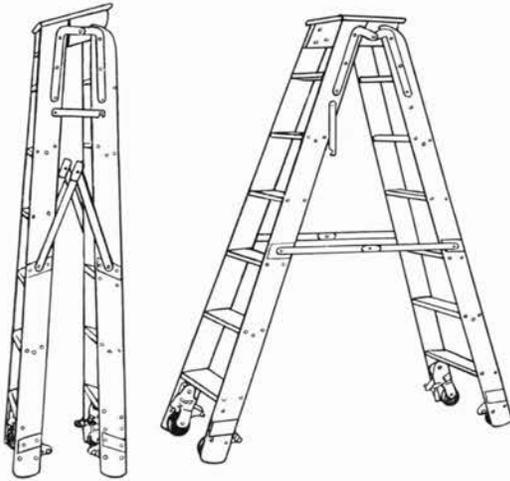
DUO-SAFETY LADDER SHOES



For safely working at dangerous heights, Duo-Safety Ladder Safety Shoes are a necessity in keeping accidents at an absolute minimum. Approved by the Departments of Labor and State Industrial Commissions, these rugged safety shoes can be instantly converted from rubber soled shoes for inside use, to rugged spiked toes for use on the ground. Suction holes have 10 inches of gripping area. Spiked toes are made of hardened steel. Duo-Safety Shoes will fit any standard ladder rail.

Stock No. (894838)

PUTNAM NO. 105 AUTOMATIC PORTABLE LADDER



This ladder has been especially designed and used extensively in terminal rooms of telephone exchanges. The ladder rolls easily in either the open or closed position and features the automatic brake and wide face rubber wheels. When stepped on, the ladder becomes automatically locked and will not move. Stock size — six foot. Any size made to specification. Made of Oak or Beech. All metal parts pressed steel, galvanized.

Catalog No. 105

Stock No. (897216)

PUTNAM NO. 2 ROLLING LADDER ASSEMBLY

No. 2 Ceiling Ladder is a rolling type stepladder, designed for use generally in telephone central offices. Ladder is usually placed between two rows of frames in telephone offices so that either side may be served from it. Mounting of ladder is about 68°, making the steps parallel with floor.

A top brake is mounted on upper end of ladder, said brake equipped with trolleys to permit ladder to be suspended from, and ride in, track. Track is mounted either on ceiling or suitable brackets by means of track brackets, and sections of track are joined together by track splices. Rubber-tired wheels at bottom of ladder permit easy movement.

Ladder may be ordered in various heights, depending on track height requirements.

Catalog No. 2

Stock No. (897217)

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.



Revised 9-1-55

KLEIN'S SIDE CUTTING PLIERS



Diamond special for use on bare and insulated wire.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
201-6	(892466)	6	5 1/4
201-7	(892467)	7	7 1/4
201-8	(892468)	8	11 3/4
201-9	(892469)	9	14

ROUND NOSE N. E. TYPE



Nose and all edges rounded and shoulder of head removed.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
201-6NE	(892470)	6	5
201-7NE	(892471)	7	7 1/2
201-8NE	(892472)	8	12
201-9NE	(892473)	9	12 1/2

NOS. 202-5 AND 202-6



Cuts close, the narrow head permitting its use in confined places. Knives are perfectly fitted.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
202-5	(892479)	5	3 3/4
202-6	(892480)	6	4

WITH SLEEVE JOINT TWISTER



Diamond special for use on bare and insulated wire, with sleeve joint twister.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
212-6NE	(892474)	6	5 1/4
212-7NE	(892475)	7	7 1/4
212-8NE	(892476)	8	11 3/4

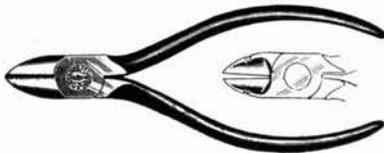
NO. 245-5 OBLIQUE CUTTING PLIERS



Lap Joint Type

For electricians, telephone men and switchboard builders. Size, 5 inches. Weight per dozen, 3 pounds. Stock No. (892477)

NO. 245-5W WITH W STRIPPING NOTCHES



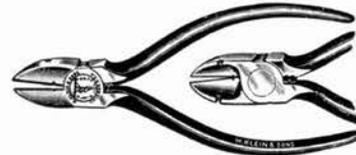
For removing acetate cellulose insulation from .050 and .058 wires used on telephone distributing frames, etc.

Size, 5 inches. Weight per dozen, 3 pounds. Stock No. (892478)

NO. 213-9NE HEAVY DUTY PLIERS

Similar in style and appearance to the No. 201-NE series. Designed and developed to cut high tensile 190 grade steel wire. Length is 9". Stock No. (895767).

WITH W STRIPPING NOTCHES, SLEEVE OPENINGS AND SKINNING HOLE



NO. 202-5-SW

An all-purpose cutting tool for telephone installation and maintenance work. The W notches will slit acetate cellulose and other insulations from wires up to .058 o.d. A stripping hole .052 diameter is provided in blades. Sleeve openings in handles.

Size, 5 1/2 inches. Weight, per dozen, 3 3/4 pounds.

Stock No. (892481)

NO. 240-5



Has notch for stripping small wires placed 3/16 inch from hinge and has diameter of .052 inch.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
240-5	(892482)	5	4
240-6	(892483)	6	4 1/4

NO. 242-6



Heavy pattern. For use where it is not necessary to reach into confined places.

Size, 6 inches. Weight per dozen, 4 1/4 pounds.

Stock No. (892486)

LONG NOSE PLIERS



Without Cutters

Adapted for stripping the ends of insulated wire and for work in confined spaces.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
301-5	(892487)	5	3¼
301-6	(892488)	6	3¾
301-7	(892489)	7	4¼

LONG NOSE PLIERS



Side Cutting

Designed for work in restricted spaces. Equipped with cutting knives.

Cat. No.	Stock No.	Size Inches	Wt. Lb. per Doz.
203-5	(892490)	5	3¼
203-6	(892491)	6	3¾
203-7	(892492)	7	4¼

NO. 316-S LONG NOSE SLEEVE PLIERS



Bell System Type

Jaws are 2 inches long with 1/16-inch point. Has openings for No. 17 B. & S. double tube copper sleeves. Handles 4 inches long, temper blued; polished head and jaws.

Size, 6 inches. Weight per dozen, 3¾ pounds. Stock No. (892493)

NO. 303-6 LONG NEEDLE NOSE PLIERS



Long nose permits use in confined spaces. Has polished head and handles temper blued.

Size, 6 inches. Weight per dozen, 3 pounds. Stock No. (892494)

NO. 302-6 KLEIN'S LONG CURVED NOSE PLIERS



Angle is arranged to give full clearance and prevent skinning of knuckles.

Size, 6 inches. Weight per doz., 3¼ pounds. Stock No. (892495)

NO. 305-6 LONG FLAT NOSE PLIERS



Has long wide flat nose. Inside of jaws left smooth if desired. Has polished head and handles temper blued.

Size, 6 inches. Weight per doz., 3½ pounds. Stock No. (892496)

NO. 206-6 LONG FLAT NOSE PLIERS



Side Cutting

Has long wide flat nose and cutting knives. Smooth jaws if desired. Has polished head and handles temper blued.

Size, 6 inches. Weight per doz., 3½ pounds. Stock No. (892497)

NO. 311-5½ LONG FLAT NOSE PLIERS



Spring Adjuster

Hollow ground on outside of jaws to reach between and grasp springs easily.

Size, 5½ inches. Weight per dozen, 3¼ pounds. Stock No. (892498)

NO. 313-6 HEAT-COIL PLIERS



For removing heat coils from switchboards and telephone terminals, the points of the nose being shaped to fit the coils. Also used for removing battery caps as well as holding any cylindrical object.

Size, 6 inches. Weight per doz., 3¾ pounds. Stock No. (892499)

NO. 304-6 LONG DUCK BILL PLIERS



For general use. Jaws are wider and heavier than those of flat nose pliers. Has polished head and handles temper blued.

Size, 6 inches. Weight per doz., 3¼ pounds. Stock No. (892501)

Revised 1-1-57

NO. 205-6 LONG DUCK BILL PLIERS



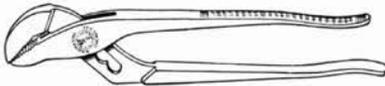
Side Cutting

For general use. Jaws are wider and heavier than those of flat nose pliers. Has polished head and handles temper blued.

Size, 6 inches. Weight per dozen, 3 pounds.

Cat. No. 205-6 Stock No. (892502)

KLEIN PUMP PLIER



The new design provides easy one-hand operation. Firm grip in any of the four positions with a capacity of slightly over two inches. Handles lightly knurled to assure positive grip. Zinc plated. Packed 6 to a box.

Cat. No.	Stock No.	Length	Av. Wt. Per Doz.
510	(897180)	9 1/2"	9 1/2 lbs.

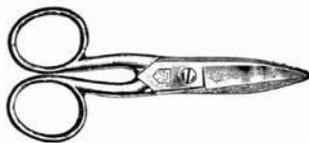
KLEIN PLIER GRIPS



These grips are of transparent plastic in bright maroon. To apply to plier handles, dip plastic grip into boiling water to within one inch of the closed end for 45 seconds. Then drive on plier handles. Their flexibility permits them to conform to the shape of the handles, assuring a tight fit. Eliminates practice of taping handles. Available in three sizes to fit 6", 7", 8" or 9" pliers.

Catalog No.	Stock No.	Plier Length Inches	Av. wt. per doz. pairs, lbs.
60	(895242)	6	1
70	(895243)	7	1 1/4
89	(895244)	8 or 9	1 1/2

NO. 2100-5 XELA ELECTRICIAN'S SCISSORS



Made of high grade steel properly tempered.

Has screw hinge. Nickel-plated finish. Size, 5 inches. Weight per dozen, 2 pounds. Stock No. (892514)

LINEMEN'S WRENCHES NO. 3416

Bell System Type

Forged from selected bar steel and of the open end type with two openings

of different sizes at each end. A hole also provided for turning in pole steps, etc.



Cat. No.	Stock No.	For Hardware In.	Wt. Lb. per Doz.
3146	(892508)	3/8"	21
3146A	(892509)	3/4"	21

KLEIN ADJUSTABLE WRENCH

A high quality adjustable end wrench for any purpose. Drop forged alloy steel for maximum



strength and lighter weight. Chrome plated. Packed 6 to a box.

Cat. No.	Stock No.	Size	Capacity	Av. Wt. Per Doz.
500-6	(897181)	6"	3/4"	3 lbs.

HI WIRE STRIPPERS



Improved action gives superior performance. Single squeeze action, easy grip and sturdy construction together with razor sharp adjustable blades provides one of the finest wire strippers available.

Catalog No.	Stock No.	Wire Sizes
H5-02	(897211)	8-10-12-14-16-18-20-22
H5-0	(897212)	14-16-18-20-22-24-26-28-30
H5-01	(897213)	16-18-20-22
H5-2	(897214)	10-12-14-16-18
H5-3	(897215)	8-10

DIAMOND B BRAID STRIPPER



This tool saves considerable time in removing the braided covering from Drop Wires. Also for holding bridging connectors while they are being installed or removed. There are three grooves for accommodating three sizes of drop wire.

Groove	Width	Depth of Cut
A	.270"	.060"
B	.330"	.080"
C	.375"	.110"

Sliding guard protects the thumb, at the same time forcing wire down on cutting blade. Blade can be rotated to new position when used section becomes dull.

Handle provided with steel wrench plate. Hexagonal opening of 3/8", 7/16" and 5/8" for bridging connectors, nuts or heads.

Aluminum die-casting. Steel parts oiled. Weight 1/4 lb.

Catalog No. 779 Stock No. (892513)

PARALLEL WIRE SLITTER

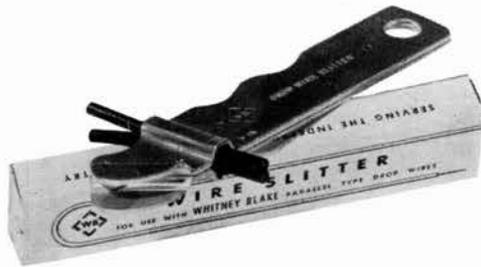


Designed for use with Neoprene and other tough jacketed wires. Light weight, vest pocket size—uses safety-razor blade for knife. 3 different size ports accommodate different size wires. Furnished with blade.

Weight each—2 ounces.

Catalog No. 5-7508 Stock No. (895011)

WHITNEY BLAKE DROP WIRE SLITTER MODEL 1



For use with Twin Parallel Types 18TICWP and 17TIBP.
This slitter consists of two formed stampings bolted together to hold a Schick Injector razor blade.

For end slitting the two stampings provide an opening through which the wire can be forced against the blade, thus slitting the center web evenly, leaving the neoprene covering around each individual conductor. A center slit can be made by pulling the slitter along the wire with the end projection of the blade slitting the center web.

Stock No.	Description
(895724)	Whitney Blake Drop Wire Slitter

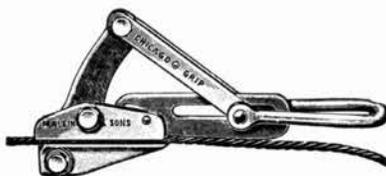
**CHICAGO GRIPS
For Bare Wire**



Main body piece and lever are forged steel. Draw parts are wrought steel. Gripping jaws are machined.

Cat. No.	Stock No.	Description	Max. Open Inches	Wt. Lb.
1613-30	(892515)	For No. 6 Wire and Smaller	2187	1½
1613-30B	(892516)	With Bronze Lined Jaws	1875	1½
1613-40	(892517)	For No. 0 Wire and Smaller	3125	2¾
1613-40B	(892518)	With Bronze Lined Jaws	3125	2¾
1613-50	(892519)	For No. 0000 Wire and Smaller	50	7½
1613-50B	(892520)	With Bronze Lined Jaws	50	7½

For Messenger Strand and Heavy Cable



Forged from alloy steel heat treated. Gripping jaws are machined smooth. Rivets are machine turned.

Cat. No.	Stock No.	For Strand	Lbs.	Max. Open In.	Wt. Lb.
1628-5	(892521)	2200 to 10000 Pounds	8000	7/16	5
1628-5B	(892522)	With bronze lined jaws	8000	.375	5
1628-6	(892523)	2200 to 6000 Pounds	8000	13/32	8½
1628-6B	(892524)	With bronze lined jaws	8000	.50	8½
1628-16	(892525)	10000 to 16000 Pounds	15000	11/16	14
1628-16B	(892526)	With bronze lined jaws	15000	.625	14

HAVEN'S STEEL GRIPS



Almost automatic in action. Handle and eccentric allow instantaneous hold. A shake of the rope on the tackle disengages the grip.

Cat. No.	Stock No.	Description
1604-10	(892527)	For No. 4 Wire and Finer
1604-20	(892528)	For ½-Inch Wire and Finer

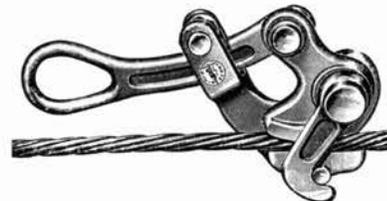
NO. 1700-30 CHICAGO LINEMEN'S TOOLS



Set is combination of Chicago Grip No. 1613-30 with Howes Wire Tool No. 1702-20.

For No. 6 wire and smaller down to No. 13.
Weight, 4 pounds. Stock No. (892536)

NO. 1625-20 IMPROVED HAVEN'S GRIPS



For plain or stranded wire No. 6 to ¼-inch diameter. Made with swing latch which engages stud on lower jaw.
Stock No. (892529)

**NO. 1702-20 KLEIN'S HOWES
WIRE TOOLS**



Strap is harness leather 1¼ inches wide and 7 feet long. At one end a forged steel swivel hook is provided with opening to permit anchoring round insulator pin. Forward end has a locking device to hold load at any distance and is so arranged that a wire grip can be readily attached.

Metal parts are galvanized.
Weight per set, 2 pounds. Stock No. (892537)

Revised 1-1-57

NO. 1802-30 KLEIN'S SELF-LOCKING TACKLE BLOCKS



Especially for use with Klein's Wire Grips. Furnished with 25 feet $\frac{3}{8}$ -inch "Waterflex" Manila rope, 2 $\frac{1}{2}$ pounds.

Consists of light steel shell blocks galvanized, fitted with snubbing hook to lock load in any position. To lock load, pull luff rope under hook. To release, simply pull rope. Blocks are arranged with spring guard snap hooks. When pulling up wire to make a splice, it may be used with two grips attached to snaps or with hook to anchor to an insulator pin or other convenient anchorage.. Stock No. (892538)

KLEIN'S HAND LINES



Rope is best quality "Waterflex" Manila and does not twist. Spliced to eye of snap hook with galvanized steel thimble.

Snap hook is drop forged and similar to those used on safety straps except that it has round eye.

Cat. No.	Stock No.	Description
1803-60	(892539)	75 Feet of $\frac{3}{8}$ -Inch Rope
443A	(892541)	Forged Snap, Eye 1 $\frac{1}{16}$ -Inch I.D.

CHANCE HOIST

For line construction and maintenance jobs, this tool is preferred because it was designed and developed especially for linemen. The simple controls can be operated without removing heavy work or rubber gloves. It is light in weight, well balanced and has a handle shaped for easy gripping. The ratchet type handle can be operated from either side to avoid poles, guys, conductors or other obstacles that might interfere with the lever motion.

The Chance Hoist is rated for lifting loads up to one ton. The easy operating lever action requires only a 100-pound pull on the handle to lift a one-ton load. The chain is released to "free-wheeling" by simply flipping the control lever. This makes it easy to hook on to a load.

All working parts are fully enclosed in the housing unit to prevent damage to the hoist while eliminating danger of injury to the worker's fingers.



Catalog No.	Stock No.	Description	Standard Lift	Weight, lbs.
3010	(895667)	One ton hoist	5' 6"	12
3010s	(895668)	One ton hoist with Safety Latch Hook	5' 6"	12 $\frac{1}{8}$

COFFING SAFETY-PULL RATCHET LEVER HOISTS



Nos. AG, FG

Nos. ATG, FTG

No. ZG

The Coffing Safety-Pull Ratchet Lever Hoist is built on the ratchet and pawl principle. The load is always locked by sprocket and ratchet pawls (cannot slip or drop load).

Automatic stops prevent handle from spinning in case hand should slip off handle. Reversible handle permits operating hoist in any position.

Safety valve handle, that is, handle will bend before chain will break or hooks will straighten out.

The safety-pull has free chain for quick load adjustment when there is no weight on the hoist.

Special designed hooks of drop-forged, heat-treated alloy steel.

Roller chain to meet Navy specifications, standard on all models.

The frame and lever parts are of certified malleable iron.

Sprockets and ratchets are of alloy steel, heat-treated and ground.

Reversing mechanism, bearing pins, etc., heat-treated alloy steel to meet their specific functions.

Model	Stock No.	Rated Cap. Tons	Net Wt. Lb.	Min. Hooks In.	Dist. Between Hooks In.	Lift per Rated Cap. In.	Lb. on Lever to Lift	Std. Lift in In.
*AG	(892550)	$\frac{3}{4}$	14	13	36	56	56 $\frac{1}{2}$	
*ATG	(892551)	1 $\frac{1}{2}$	17	15	18	60	57	
*FG	(892552)	1 $\frac{1}{2}$	25	16	48	116	56 $\frac{1}{2}$	
*FTG	(892553)	3	34	17	24	120	57	
ZG	(892554)	6	59	25	12	124	53	

*Available with double pawl at extra cost.

The double pawl safety-pull ratchet lever hoists have decided advantages when working in close quarters where a full stroke of the lever is not permitted, because the load can be raised or lowered with a half stroke of the lever.

VAN-WEB NO. 100 HYDRAULIC POLE JACK



It has a raise lift of 60 inches at the hook through the pulley that doubles the lift of the ram.

It is guaranteed to exert a 15,000 lb. pressure on end of ram.

The jack with ram depressed is 41 inches long, and weighs 60 lbs. The pump handle is 25 inches long, and folds down to the side. A handle ring is mounted on the side so weight is balanced for carrying.

No special strength is required to operate the pump handle. The hook lifts 3/4 inches on each stroke. A shut-off valve is located at the top of the cylinder and the ram can easily be pushed back in the cylinder when this valve is opened.

The hydraulic pump is operated with No. 10 oil, pushing against the 1 1/2 inch diameter ram. This is sealed in, but can be replaced occasionally for operating efficiency.

The pulley yoke is mounted on a loose piston so the whole yoke can be lifted out and a pike pole set in the cup at the top of the ram, for straightening poles.

This jack is very simple to set up against a pole, requiring only a base laid on the ground for leverage. The hook starts at the bottom of the jack, so one pull will clear most poles.

Stock No. (894840)

MIGHTY MIDGET PULLER



For any pulling job up to 500 lbs. where the requirements are for a compact, light, really portable tool, less than a foot long, and weighing only 6 1/2 lbs., it is especially appreciated by the line-man. The safety-load handle warns when there is an overload; it can be used as a lever or a crank—it locks in either position.

Packed in a box 11 1/2" x 4 1/2" x 3 1/4" Stock No. (894682)

COFFING LOAD BINDERS

For booming poles, logs, pipe, etc.

Drop-forged steel hooks with swivels on both ends. The take-up is 5/8 inch to each stroke of the handle.

If load becomes loose, it can be bound tight simply by drawing on lever. After load is taken off chain, both levers can be tripped at once and chain can be pulled through binder free.

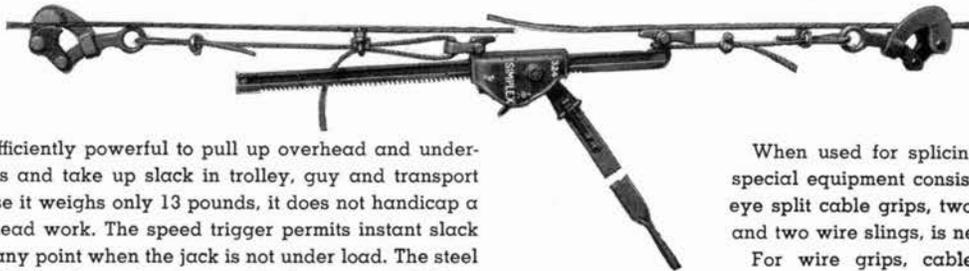
Can also be used as a hoist and for stretching wire or cable.

Model A will boom a load of 3000 pounds. Weight, 11 1/2 pounds. Stock No. (892555)

Model F will boom a load of 6000 pounds. Weight, 24 pounds. Stock No. (892556)



SIMPLEX AERIAL CABLE AND WIRE TENSIONING JACK



No. 324 is sufficiently powerful to pull up overhead and underground cables and take up slack in trolley, guy and transport wires. Because it weighs only 13 pounds, it does not handicap a man in overhead work. The speed trigger permits instant slack "take up" at any point when the jack is not under load. The steel lever is furnished with a safety spring clip that prevents it from coming out.

The jack is easy to set up because of its non-flexible rack bar and exerts a direct line pull.

For tensioning bare wire use two bare wire grips and two wire slings. See illustration.

When used for splicing overhead cable, special equipment consisting of two double eye split cable grips, two three-bolt clamps and two wire slings, is needed.

For wire grips, cable grips and wire slings, please refer to other sections of this supply catalogue.

Capacity Tons	Travel	Weight
2	20 1/4"	13 lbs.
Cat. No.	Stock No.	
324	(891026)	

Revised 1-1-57

SIMPLEX POLE PULLING AND POLE STRAIGHTENING JACKS

For many years Simplex Pole Pulling and Pole Straightening Jacks have been saving man-hours and reducing "out of service" hours for electric power, telephone, telegraph and trolley companies.

Nos. 1538, A1538 Standard Pole Jacks

No. 1538 is the standard pole Jack of the Bell System. It has 15 tons capacity and will pull or straighten any size pole, large or small. The "I" beam base provides a firm foundation and the Jack will pivot on its base when the base pawl is disengaged.

A new companion model, the No. A1538 is available with an aluminum housing and base which provides lightness for easier portability without sacrifice of strength. All parts are interchangeable.



No. 1538



No. 325

WOOD PULLEY BLOCKS



Single



Double



Triple

For manila rope. Loose side hooks and beackets. Can be supplied with common or roller bushings. Roller bushings will be furnished unless otherwise specified.

Size Sheave Inches	Stock No. Single	Stock No. Double	Stock No. Triple	Size Shell In.
1 3/4 x 1/2	(892558)	(892564)	(892571)	3
2 1/4 x 5/8	(892559)	(892566)	(892572)	4
3 x 3/4	(892560)	(892567)	(892573)	5
3 1/2 x 1	(892561)	(892568)	(892574)	6
4 1/2 x 1	(892562)	(892569)	(892575)	7
4 3/4 x 1 1/8	(892563)	(892570)	(892576)	8

One or two men can pull or straighten poles, pull butts or move loaded poles with no interruption to service and without digging, regardless of the size of the poles, or depth in the ground.

No. 325

The Simplex Junior Pole Jack is used for poles up to 30 feet in height. In addition, it is handy as a guy line tightener and for pulling underground cables. The 8' pike pole furnished with the No. 325 is especially handy when it is necessary to straighten poles located beside ditches.

Recommended for rural electrification. It is single acting, ratchet lowering.

No. 310-A



Usually thought of as an emergency all-purpose jack. It also pivots on its base, making an excellent pole pulling and straightening jack where the amount of lift is not of primary importance. Compact and husky. It is single acting, ratchet lowering. Lifts on the cap, two positions of the auxiliary shoe, the toe lift, and at any intermediate point by using the chain as a sling. Minimum toe lift height is only

2 1/4". It lifts vertically, and lifts or pushes from any angle. Double lever socket provides for close quarter operation.

Cat. No.	Stock No.	Capacity Tons	Height Inches	Lift Inches	Wt. Lb.
310-A	(891484)	15	22 1/4	13 1/2	74
325	(891482)	5	50	36	34
1538	(897218)	15	37 3/4	22	100
A1538	(897219)	15	37 3/4	22	60

MALLEABLE IRON PULLEY BLOCKS



Single



Double



Triple

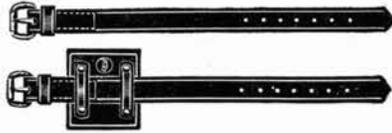
Constructed so that manila rope cannot jam between shell and sheaves. Hooks are drop forced of special steel.

Can be furnished with either common iron or roller bushings. Roller bushings will be furnished, unless otherwise specified.

Size Sheave Inches	Stock No. Single	Stock No. Double	Stock No. Triple	Size Shell In.
1 3/4 x 1/2	(892577)	(892583)	(892589)	3
2 1/4 x 5/8	(892578)	(892584)	(892590)	4
3 x 3/4	(892579)	(892585)	(892591)	5
3 1/2 x 1	(892580)	(892586)	(892592)	6
4 1/4 x 1	(892581)	(892587)	(892593)	7
4 3/4 x 1 1/8	(892582)	(892588)	(892594)	8

STROMBERG-CARLSON

KLEIN'S CLIMBER STRAPS AND PADS



Set consists of 2 calf straps 1 1/4 x 22 inches with 4 x 4-inch pads and 2 ankle straps 1 1/4 x 22 inches. Leather is first quality harness leather. Buckle drop forged, fitted with roller.

Cat. No.	Stock No.	Description	Wt. Lb. per Doz. Sets
5301-1	(892608)	Plain Pads	15
5301-2	(892609)	Sheep-lined Pads	16
5301-3	(892610)	Felt-lined Pads	16

Straps Only

Cat. No.	Stock No.	Description	Wt. Lb. per Doz. Pair
5301-4	(892611)	Plain Straps, 2 Straps	6

KLEIN'S CLIMBER STRAPS AND PADS



Bell System Type

Set consists of 2 calf straps 1x22 inches with 2 special pads and 2 ankle straps 1x26 inches.

Straps Only

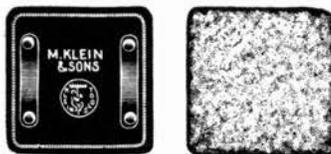
Cat. No.	Stock No.	Description	Wt. Lb. per Doz. Pair
5301- 9	(892619)	2 Calf Straps, 1x22 In.	6
5301-10	(892620)	2 Ankle Straps, 1x26 In.	8

Pads Only

Pads made of select leather, arranged with loops for climber straps and climber. Tapering 3 3/4 inches to 2 3/4 x 6 1/4 inches deep.

Cat. No.	Stock No.	Description	Wt. Lb. per Doz. Pair
8203	(892621)	Plain Leather	4
8204	(892622)	Sheep-Lined Leather	5
8205	(892623)	Felt-Lined Leather	5

KLEIN'S CLIMBER PADS



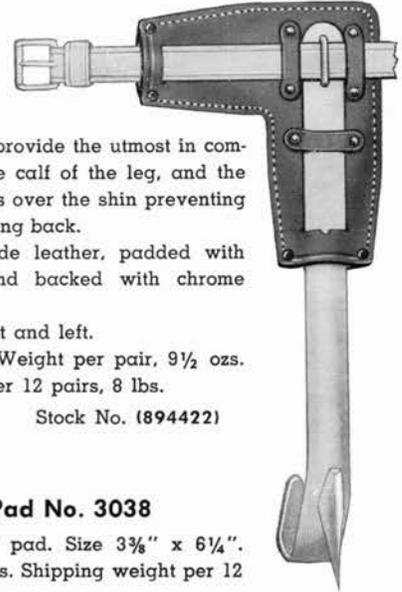
Pads made of select leather, arranged with loops through which to slip climber strap.

Cat. No.	Stock No.	Description	Wt. Lb. per Doz. Pair
8200	(892613)	Sheep-lined, 4x4 Inches	3
8201	(892614)	Felt-lined, 4x4 Inches	3
8202	(892615)	Plain Leather, 4x4 Inches	3

BUCKINGHAM CLIMBER PADS

Only top grades of leather are used in the manufacture of Buckingham Climber pads. A wide variety of design and types has made these pads extremely popular. Provided with pads of rubberized wool or felt, or without padding, they are "tailor-made" for Buckingham climbers. Users will find them most comfortable.

Deluxe Climber Pad No. 3122



These climber pads provide the utmost in comfort. They protect the calf of the leg, and the wing of the pad folds over the shin preventing the climber from sliding back.

Made of high-grade leather, padded with rubberized wool, and backed with chrome leather.

Made in pairs right and left. Size 6 3/4" x 7 3/4". Weight per pair, 9 1/2 ozs. Shipping weight per 12 pairs, 8 lbs.

Catalog No. 3122 Stock No. (894422)

Climber Pad No. 3038

3-Loop plain leather pad. Size 3 3/8" x 6 1/4". Weight per pair, 5 ozs. Shipping weight per 12 pairs, 5 lbs.



	Catalog No.	Stock No.
Plain Leather	3038	(894418)
Felt Lined	3238	(894419)

Climber Pad No. 3039

2-Loop plain leather pad. Size 4" x 4". Weight per pair, 3 ozs. Shipping weight per 12 pairs, 3 lbs.



	Catalog No.	Stock No.
Plain Leather	3039	(894410)
Felt Lined	3239	(894411)

BUCKINGHAM CLIMBER STRAPS



Buckingham Climber Straps are made from two grades of leather and price

varies accordingly. Harness leather straps are made from selected quality steer hides, and latigo leather straps are made from first quality cow hides. These straps are strong and durable, and fitted with tested steel buckles. The buckles on latigo leather straps are riveted on whereas the buckles on harness leather straps are sewn as well as riveted.

Cat. No.	Stock No.	Description	Size
2234	(894426)	Leg Strap, Harness Leather	1" x 22"
2434	(894427)	Foot Strap, Harness Leather	1" x 24"
2235	(894424)	Leg Strap, Harness Leather	1 1/4 " x 22"
2435	(894425)	Foot Strap, Harness Leather	1 1/4 " x 24"

Revised 1-1-57

BUCKINGHAM CLIMBERS



Straight Pattern

Buckingham Climbers are sturdy, dependable and comfortable — designed and tested to give maximum service and safety. The Buckingham Climbers listed below are made in straight pattern only, not left and right. Many large utilities throughout the country favor them. Each run of these climbers is rigidly inspected, and all lots are tested for metal specifications, including a Rockwell hardness test. Each lot must meet the "bend test" of shanks, gaffs, and other Buckingham high standards of safety.

Cat. No.	Stock No.	Description	Wt. each
9126	(894401)	Straight, Med. Wt. with loops	3 lb., 3 oz.
9130	(894517)	Straight, Featherweight with straps	2 lb., 3 oz.

Patented Offset Shanks



The Buckingham Climber listed below is Right and Left Climber with Patented Offset Shank. Offset-shank climbers are becoming increasingly popular because of the new sense of safety, comfort and ease they give the wearer. The offset in the shank of the climber brings the gaff more in alignment with the wearer's balance when climbing, and greatly overcomes the tendency of climbers to twist and slide back of the wearer's leg.

Each climber is stamped "Right" or "Left," designating the foot for which it is intended.

Buckingham Climber No. 9131 is extremely popular with linemen weighing not over 175 pounds. It is comfortable, sturdy and light. Footstraps are attached.

Cat. No.	Stock No.	Description	Wt. each
9131	(894567)	Right and Left, Offset	2 lb., 13 oz.

How to Order Buckingham Climbers

When ordering climbers it is necessary that the size (length) be given, as well as the type of climbers wanted . . . and the catalog numbers. Climbers are measured from the bottom of the stirrup, or footpiece, to the extreme end of the shank . . . see diagram and table of sizes. The top of the shank should normally extend about one-half inch below the inside low point of the knee joint.

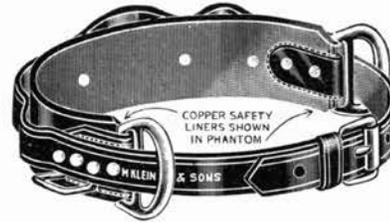
Climber Sizes

Buckingham Climbers are made in lengths of 14", 14½", 15", 15½", etc., in increments of ½" to 19" . . . in Medium, Light and Featherweights. Buckingham also makes adjustable climbers.

Climber Markings

Each climber is stamped with the size: 15½, 16, 16½, etc., and right and left climbers are stamped: 16 Right, 16 Left.

KLEIN'S TOOL BELTS



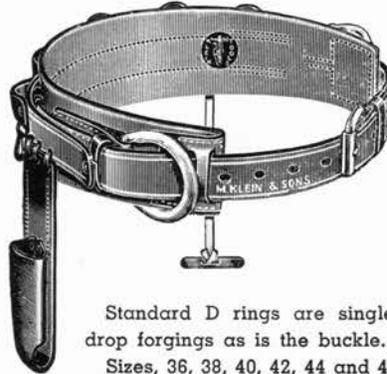
DROP FORGED DEE RINGS AND BUCKLE

Drop forged standard D rings and buckle.

Made in sizes 36, 38, 40, 42, 44 and 46 inches. Specify length required.

Cat. No.	Stock No.	Width Inches	Wt. Lb. per Doz.
5204	(892624)	3½	32

NO. 5228 KLEIN'S LEATHER TOOL BELTS



Made 4½ inches wide at center of back and tapered to 3½ inches wide at front. Made of one-piece soft, pliable russet latigo leather, doubled to form comfortable rolled edges and returned at each end.

Standard D rings are single bar type solid steel drop forgings as is the buckle. Galvanized finish.

Sizes, 36, 38, 40, 42, 44 and 46 inches. Other sizes to order. Specify length when ordering.

Weight per dozen, 45 pounds. Stock No. (892627)

NO. 1901M KLEIN'S STANDARD WEIGHT CLIMBERS



When ordering specify length of shank desired. Measure from instep to extreme end. Other than stock sizes to order. Tested before leaving factory.

Stock sizes, 15, 15½, 16, 16½, 17, 17½ and 18 inches.

Has punched strap loops. Packed 1 pair in a carton. Weight, 3½ pounds. Stock No. (892606)

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

Revised 9-1-55

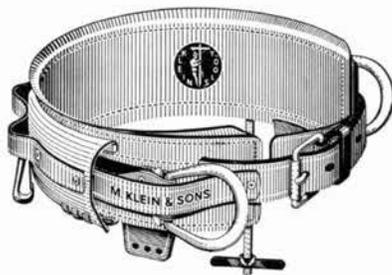
NO. 5204-TSO KLEIN'S TEXAS TOOL BELTS



Lined throughout with soft latigo leather. Made 4 inches wide at center of back for full support, tapering to 2¼ inches wide at hips to permit free bend to body of wearer.

Made in sizes 36, 38, 40, 42, 44 and 46 inches. Specify length required. Weight per dozen, 33 pounds. Stock No. (892626)

NO. 5249 KLEIN-LINE TOOL BELT



The full-floating, sliding trace—1¾" wide—relieves chafing and undue wear on the safety strap is prevented.

The 2" wide belt strap is of heavy harness leather with drop-forged buckle. The tool strap, 1¼" wide, has five tool loops and is riveted to the main strap. Sewing is locked stitched with hot waxed linen thread. Rivets are solid copper, hand set.

The cushion is 4¾" wide of pliable latigo leather—is pad-lined and edge-rolled for greater comfort.

Furnished with plier pocket, tape thong, and knife snap.

Cat. No.	Stock No.	Width	Wt. per Doz.
5249	(894861)	4¾"	55 lb.

KLEIN'S PLIER POCKETS



Made of good quality leather. Have slits through which belt is inserted. No. 5112 is the same as No. 5107 except that plier does not protrude.

Weight per dozen, 2½ pounds.

Catalog No.	Stock No.
5107	(892636)
5112	(892637)
5118-K	(894862)

KLEIN ADJUSTABLE CLIMBERS

No. 1945-ADJ



Using the same pattern of extra wide stirrups and offset shanks as found in the standard Klein climbers, the No. 1945-ADJ offers the extra advantage of being adjustable to 15, 15½, 16, 16½, 17, 17½, and 18 inches from instep to top of slide.

Can be bought as climbers only, or complete with No. 5301-9 Calf Straps, No. 5301-26 Ankle Straps, and No. 8207 Climber Pads.

Cat. No.	Description	Stock No.
1945-ADJ	Climbers only	(895220)
C1945-ADJ	Climbers with straps and pads	(895221)

BUCKINGHAM ADJUSTABLE CLIMBERS

No. 9205



Buckingham Adjustable Climbers can quickly be adjusted from size 15 to size 18½ by a simple and secure setting of two Allen-head set screws against a loop made from round cold-drawn steel, adjustable in a tubular steel socket. This extensible device gives a range of leg iron lengths that are exact-size fit for any wearer.

Buckingham Adjustable Climbers make it possible for linemen to adjust them according to the various thickness of footwear worn at different times during the year.

REPLACEABLE GAFFS—The replaceable gaff is locked to the body of the climber at an angle which will not permit it to become disengaged in normal use.

Pressure exerted on it when the wearer is ascending or descending tends to lock the gaff tighter into the leg iron. The angle of the gaff permits the lineman to stand closer to his work with less possibility of cut out, and also makes climbing easier.

They can be removed by using a punch or drift pin to drive out a patented "Driv-Lok" pin. Extra gaffs are available.

Catalog No. 9205 Stock No. (894700)

BUCKINGHAM GAFF

PROTECTORS

No. 6009



These gaff protectors are made in pairs from high-grade leather and secured with binder strap. They protect the gaff from damage and prevent accidents to workmen and equipment when carried in service truck.

Weight per pair, 2 ozs.
Shipping weight per 12 pair, 2 lbs.
Cat. No. 6009, Stock No. (894423)

Revised 1-1-57

KLEIN'S SAFETY STRAPS



Drop forged snaps and buckle.

With Leather Wear Pads

Cat. No.	Stock No.	Width Inches	Length Feet	Type Snaps	Wt. Lb. per Doz.
5251	(892628)	1 3/4	5 2/3	Standard	32 1/2

With Stainless Clips

5250	(892629)	1 3/4	5 2/3	Standard	32 1/2
5253	(892630)	2	5 2/3	Standard	40

Bell System Type

5257S	(892631)	2	5 1/8	-----	38
5257L	(892632)	2	5 5/8	-----	40

KLEIN'S KLEIN-KORD SAFETY STRAPS



With Stainless Clips

Cat. No.	Stock No.	Width Inches	Length Feet	Type Snaps	Wt. Lb. per Doz.
5233	(892633)	1 3/4	5 2/3	Standard	36

KLEIN COMBINATION TOOL POCKET



No. 5126 has large utility pocket, two screwdriver pockets, two plier pockets and a handy knife snap. Made of high-grade leather to give finest service.

Over-all size 8 1/2 in. high x 6 1/2 in. wide.

No. 5127 similar to No. 5126 but with three plier pockets 7-inch wide x 10-inch high.

Cat. No.	Stock No.
5126	(897185)
5127	(897186)



BUCKINGHAM BELT SUPPORT NO. 6258

This belt supporter will provide comfort and working ease when carrying a heavy tool belt, because the greater share of the weight will be supported from your shoulders. Made of highest quality leather and fitted with necessary dee rings and snaps. Weight 10 ounces. Shipping Weight per 12, 8 lbs.

Cat. No.	Stock No.
6258	(894451)

BUCKINGHAM SAFETY STRAPS



Leather in Buckingham safety straps and belt straps must have an ultimate breaking strength of not less than 650 pounds per inch of width. It must be free from brittleness and show no cracking or grub holes, other than slight surface checks, when bent slowly with the grain side out. This bending test is around a mandrel of 0.675-inch diameter.

Nylon thread has a greater tensile strength than other commonly used stitching materials. It wears better, it is more elastic, it "gives" with the leather, its use is approved by utilities. Nylon thread is used in all Buckingham belts, safety straps and climber straps.

3042	(894452)	2" x 5' 10"	Harness Leather	2 lb., 15 oz.
3142	(894453)	1 3/4" x 5' 10"	Harness Leather	2 lb., 11 oz.

BUCKINGHAM FABUCK (fabric)

Safety Strap No. 3542



Particularly light and flexible, this strap is made from heavy silver duck, impregnated with neoprene and built up in vulcanized plythicknesses to meet various service requirements. It has a tensile strength of 300 lbs. per square inch, per ply. Tensile strength of 3700 lbs. per square inch. Superior to leather for tower work.

The fabric is specifically designed to meet specifications for a fabric belt. Its extra width increases its flexibility, correcting a fault found in other belts of this type. There are no sharp edges to cause excessive wear. Size: 2" x 5' 10". Weight 3 lbs., 2 ozs. Shipping weight per 12, 43 pounds.

Cat. No. 3542 Stock No. (894460)

BUCKINGHAM TOOL POUCHES



No. 4650, tool pouch with one large, two small, and two deep ring pockets for various tools, fitted with knife snap. Size 8 1/2" x 10". Made from best quality harness leather, stitched and riveted. Easily slipped on any belt not over 2" in width.

Weight per pouch, 11 ounces. Shipping weight per 12, 10 lbs.



No. 4652, pouch with one large and two smaller pockets. Holds plier, rule, screwdriver or other tools. Fitted with knife snap. Size 5" x 10". Stitched and riveted harness leather, this pouch can be used to good advantage on any belt not more than 2" wide.

Weight per pouch, 9 ozs. Shipping weight per 12, 8 lbs.

Catalog No. 4650	Stock No. (894536)
Catalog No. 4652	Stock No. (894538)

BUCKINGHAM TOOL BELTS
Buckingham Glider Tool Belt No. 1060



Buckingham's Glider-type Lineman's Belt No. 1060 embodies a "floating" feature that provides fuller freedom of body movement under all working conditions, 4½ inch shift, right or left without binding clothes or tools. Weight of the body does not bind, or affect in any way, the sliding-strap ease in shifting positions. The 4 inch, rolled-edge chrome leather liner further contributes to wearing and working comfort.

Belt is equipped with a two-way snap, and rings for attaching belt supporter.

Weight 4 pounds. Shipping weight per 12, 58 lbs.

Catalog No. 1060 Stock No. (894531)

"Cushion Deluxe" Floating Tool Belt No. 1058



No. 1058 is a strong, durable and flexible belt made from the best leather obtainable for the purpose. It has a rolled-edge feature providing a cushion effect that affords greater working comfort for the wearer.

The tool loop strap is formed into five loops with two rivets between loops to prevent twisting and sagging.

Belt is fitted with ring, two-way snap and tape thong. Belt is 4¾" wide, sliding strap 2" wide.

Rigidly tested for strength and safety.

Weight 3 lbs., 12 ozs. Shipping weight per 12, 56 lbs.

Catalog No. 1058 Stock No. (894438)

BUCKINGHAM SHARPENING GAGE
No. 6101



The Buckingham Gaff Gage is designed to guide linemen and others in the proper sharpening of gaffs for Buckingham Climbers.

The gage shows the minimum thickness and width of gaffs, as well as the minimum length allowable for safe use. The gage is packed in a leather pouch.

Weight per gage, 2 ozs. Shipping weight per 12, 2 lbs.

Catalog No. 6101 Stock No. (894408)

NO. 6103 BUCKINGHAM THREAD CLEANER

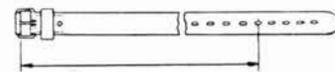


This tool renews battered or rusted thread from ¼" root diameter up to 1". It fits any left or right hand pipe or machine thread. Especially useful in chasing thread on the job before trying to start a nut. Tool is set to proper diameter by knurled-handle screw adjustment, held by knurled lock nuts.

Cat. No.	Stock No.	Size		Swing	Wt.
		Min.	Max.		
6103	(894993)	¼"	1"	7"	1 lb.

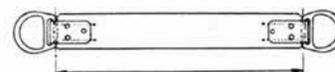
TOOL BELT ORDERING INFORMATION

Use This Method in Measuring Your Size



Your Tool Belt Measurement is the measurement between the center of the buckle roller and middle punched hole. Give measurement around the body and clothing where belt will be worn.

Dee Ring Measurement



The size of the saddle or pad on the Tool Belt is determined by measuring between the centers of the heels of the dee ring. The length to order is found by measuring the distance around the back from the prominent part of one hip bone to the prominent part of the other, at the points where the belt is to be worn, plus two inches.

Note: Make all measurements around clothing which is to be worn under the belt.

Tool Belts are manufactured and available in the following standard sizes:

Dee Ring Measurement	18"	19"	20"	21"	22"	23"	24"	25"
Belt Strap Measurement	32"	34"	36"	38"	40"	42"	44"	46"

Revised 1-1-57

BUCKINGHAM CANVAS BAGS



Here's a carry-all that will hold your belt, safety strap, climbers, pouches, tools, and a few extras, work clothes, etc. This zipper-closing, heavy olive drab canvas bag is reinforced in the bottom with stout binder board and fitted with heavy plated gliders. Heavy web straps are stitched to the sides and around the bottom of the bag and brought up in loops to form the carrying handles.

These web straps reinforce the bag and provide comfortable handles that won't tear or pull out. All seams are stitched to withstand the rugged service for which this bag is intended.

Cat. No.	Stock No.	Description	Wt., Each
5324	(894550)	24" x 10½" x 12"	3 lb., 2 oz.

NO. 1084 CANVAS BUCKET



The Bell Telephone System style. Made of No. 1 white duck, 12" diameter at top, 9" diameter at bottom, height 12". Bottom is ⅛" leather pressed to shape, hardened and waterproofed. Equipped with spliced ¾" rope handle in which has been placed a heavy galvanized swivel marine snap for hoisting, suspending from wires, etc.

Stock No. (892647)

NO. 1324 COLLAPSIBLE NON-METALLIC BUCKET



For heavy duty. Made of No. 1 white duck, diameter at top and bottom 12", 16" high. ½" non-metallic ring at top made of vulcanized hard fibre. Bottom reinforced with genuine full grain harness leather which extends up to the sides for 3". ¾" rope handle spliced in heavy leather reinforcement.

Stock No. (892648)

KLEIN'S CANVAS TOOL BAGS

Made of one piece white duck reinforced all around bottom with heavy bag leather, 3¼ inches up on 5102 series, 8 inches up on 5105 series.

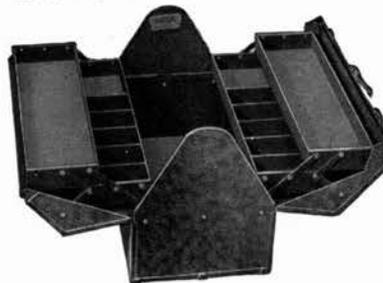
Bottom is made of heavy leather outside and duck inside, lock stitched all around. Bottom is protected with strong steel studs. Bottoms and sides joined together with lock stitched leather welt seams. Mouth of bag is formed by a 12-gauge steel frame. Canvas is clinched between this frame and an inside secondary steel frame. Has harness leather handles and two retaining straps with buckles.



No. 5105

Cat. No.	Stock No.	Size Inches	Wt. Lb.
5102-18	(892641)	18	3¼
5102-20	(892642)	20	3⅞
Similar construction; leather 8 inches up sides.			
5105-18	(892643)	18	4½
5105-20	(892644)	20	4¾

NO. 1018 METAL TOOL KITS



The four trays swing out of kit smoothly and easily when lids are opened.

Leather handle, lids fastened with draw bolt hasp and staple. Three skid rails welded to bottom.

Finished in seal brown ripple baked enamel outside, with dark green smooth baked enamel trays.

Dimensions, 18 x 10 x 12½ inches. Each kit packed in individual carton; 6 to a crate.

Shipping weight per crate, 115 pounds. Stock No. (892645)

NO. CS19 METAL TOOL KITS



Cantilever style, has smooth working tray which rests firmly when extended. Marproof green baked ripple enamel finish. Fastened with draw bolt hasp and staple, double seamed ends, full length piano (continuous) hinge, and corner irons.

Dimensions, 19 x 7 x 7 inches. Each kit packed in individual carton; 6 to a crate.

Shipping weight per crate, 48 pounds. Stock No. (892646)

NO. 345 1/4 INCH STANDARD HOLGUN BALL-BEARING DRILL



A perfectly proportioned "Handful of Power" of surprising compactness and smooth lines. Pistol Grip and Trigger Switch, special ball spindle bearing, splined gear mounting, screened air inlets and full ball-bearing equipped. Available in 7 spindle speeds from high torque at 500 R.P.M. to high

speed at 5,000 R.P.M. Use Standard Holgun for regular production service; Low-speed Holgun for stainless steel and hard alloys.

Standard Speed Model Specifications

Drilling Capacity: in Steel, up to 1/4"; in Hardwood, up to 1/2"
 Speed: No-load 1700 R.P.M.* Full-load 900 R.P.M.
 Weight: Net 3 lbs. Shipping 4 1/4 lbs.
 Overall Length 6 3/4"
 Spindle Offset 3/4"
 *Optional No-load Speeds (at no extra cost) 2500, 3500 or 5000 R.P.M.

Standard Equipment

Two-pole automatic-release trigger switch and locking pin, mounted as a unit with cord protector; 3-wire cable and plug; 3-jaw Jacobs threaded chuck and key; "universal" motor.

Equipped with No. 24449 Chuck Protector at an extra charge. Standard Voltage, 110; also available for 220 or 250 volts. Catalog No. 345 (specify voltage) Stock No. (894763)

NO. 238 5/8 INCH STANDARD BALL-BEARING DRILL



Motor is mounted on ball bearings. Chuck spindle operates on Timken tapered roller bearings, insuring smooth power.

Specifications

Drilling Capacity: in Steel 5/32" to 5/8"; in Hardwood 1 1/4"
 Speed: No-load 300 R.P.M.; Full-load 180 R.P.M.
 Weight: Net 17 lbs.; Shipping 21 3/4 lbs.
 Overall Length 18"

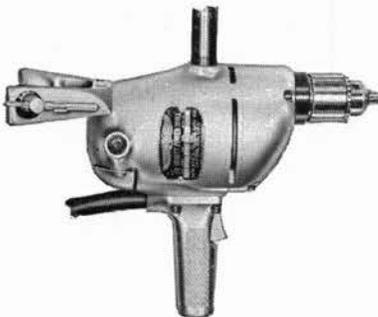
Standard Equipment

3-wire cable and plug; 5/8" Jacobs chuck, key and chain; automatic-release switch with locking pin; spade handle; detachable pipe handle; "universal" motor.

Optional No. 2 Morse Taper Socket instead of chuck, no extra charge.

Standard Voltage 110; also available for 220 or 250 volts. Catalog No. 238 (specify voltage) Stock No. (894765)

NO. 361 1/2" STANDARD BALL-BEARING DRILL



The most popular general purpose Electric Drill with perfect operating balance, close coupled construction, minimum spindle offset and horizontal spade handle. Spindle speed is ideal for

driving all types of twist drills, hole saws and wood augers. Deep groove ball bearing on chuck spindle with inner and outer races locked in place. Spline-mounted spindle gear increases strength, minimizes friction and wear.

Specifications

Drilling Capacity: in Steel, up to 1/2"; in Hardwood, up to 1"
 Speed: No load 400 R.P.M., Full-load 275 R.P.M.
 Weight: Net 9 3/4 lbs.; Shipping 13 lbs.
 Overall Length 13 3/4"

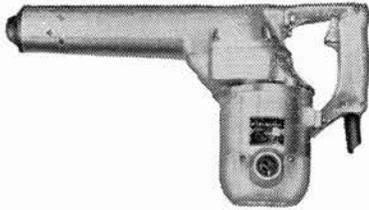
Standard Equipment

Three-conductor cable and plug; 3-jaw Jacobs threaded chuck and key; automatic-release trigger switch with locking pin; spade handle with key holder; detachable pipe handle; "universal" motor.

Standard Voltage, 110; also available for 32, 220 or 250 volts. Catalog No. 361 (specify voltage) Stock No. (894764)

Revised 9-1-55

NO. 103 3/4 INCH PORTABLE ELECTRIC HAMMER



Completely self-contained, operated by "universal" motors, requires no transformers nor rectifiers. Positive motor drive through reducing gears, develops hammer action by oscillating a weight and spring assembly. A definite "follow-through" stroke produces high efficiency.

Use to speed up any drilling or cutting operation requiring a hammer action; drill and channel in concrete, stone and brick; caulk joints and seams; remove scale and rust; tamp and vibrate concrete forms; gouge and chisel trees, timbers.

Specifications

Operating Range: Efficient 1/4" to 3/4"; Extreme 3/16" to 1 1/8"
 Blows Per Minute 2300; Overall Length 14 5/8"
 Weight: Net 10 3/4 lbs.; Shipping 22 lbs.

Standard Equipment

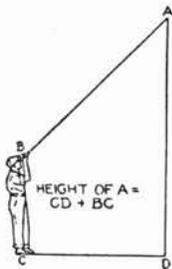
One No. 22587 chuck wrench; one dust shield; one No. 7162 (5/8") star drill; 3-conductor cable and plug; trigger switch; tool retaining spring; drift key; carrying case and can of oil; "universal" motor.

Standard Voltage 110 also available for 220 or 225 volts.

Catalog No. 103 (specify voltage) Stock No. (894767)

MATTHEWS TELEHEIGHTS

Type CW



A handy, practical instrument that will save time in quickly and accurately figuring heights of poles, trees, wires, buildings, etc.

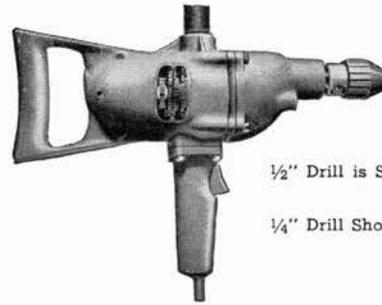
Based on a well-known geometric axiom, it puts in the pocket of the lineman or outside plant man the necessary tools for making an accurate measurement that otherwise would require the services of a surveyor.

Easy to operate, no moving parts. Length, 5 inches.

Furnished with instruction sheet; and leather carrying case. Weight, 2 ounces.

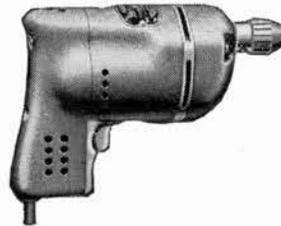
Stock No. (892103)

HOME UTILITY ELECTRIC DRILLS



1/2" Drill is Shown Above;

1/4" Drill Shown Below at Left.



These are well built tools with ample motor, husky housings, full sized gears and bearings. Drills holes in a jiffy in metal, wood or plastics. Can also be used to drive grinding, sanding and polishing attachments and for sharpening tools. Excellent for drilling out rusted bolts and studs.

Immediately available in the two sizes shown below:

1/4" Home Utility Drill, Stock No. (894761)

1/2" Home Utility Drill, Stock No. (894762)

DILLON BISECTORS



An easily operated anchor hole locator. Scientifically spots the location where an anchor pole or anchor should be placed. The accuracy with which it bisects the angles and determines the center of the lines of force takes the guesswork out of this phase of line construction.

Length, 12 1/2 inches; depth, 1 5/8 inches; and width, 7/8 inch. Complete instructions accompany each instrument.

Shipping weight, 1 pound. Stock No. (893406)

ELECTRIC SOLDERING IRONS

The core of the heating unit is made of solid steel rod. Around this steel core is wound chrome-nickel ribbon resistance wire, the various layers of which are insulated with mica of the best grade obtainable for the purpose.

Each of the below irons is equipped with a baffle plate, at the shank, to prevent free conduction of heat to the handle.



No. 3138

NO. 3138 Designed primarily for production and maintenance in radio, telephone, telegraph, ignition switchboard and telephone installation work and similar industrial applications.



No. 3158

NO. 3158 For the same purposes as the No. 3138 but for work requiring an iron of greater capacity.

NO. 3178 For use on still heavier work; for light commutators and service and production work. A very useful iron for general purposes.

NO. 3198 For heavy work of all kinds. Supplies a large volume of heat at high temperature. Used by manufacturers in many different lines; for shop, service, production work, etc.

Specifications

Made in standard voltages and for 32 volts.

No. 3138 also made for 6, 12, 24 and 55 volts.

Nos. 3138, 3158, 3178, 3198 can be equipped with three-conductor cord, one wire grounded, at slight additional charge.

Separate heat-insulating stand supplied with each iron.

Cat No.	Stock No.	Diameter of Tip	Watts	Net Weight	Length Over All	Casing Diameter
3138	(890818)	3/8"	100	16 oz.	12 7/8"	7/8"
3158	(890819)	5/8"	200	28 oz.	13 3/8"	1 1/4"
3178	(890820)	7/8"	300	42 oz.	14 3/8"	1 9/16"
3198	(890821)	1 1/8"	550	60 oz.	15"	1 3/4"

COPPER SOLDERING TIPS



3738 for Iron
3758 for Iron
3778 for Iron
3798 for Iron

These copper tips are made from commercially pure, drawn bar, copper rod. Each tip is designed to fit into, and to the full length of, core of heating unit of the particular iron for which it is intended. Maximum area of contact between the tip and heating unit is thus assured. Tips are of uniform diameter throughout their entire length. Each tip is held in place in core of heating unit by a recessed set-screw. Standard shaped tips with which the various models are equipped are shown in the illustration; but pyramidal, instead of chisel type, and vice versa, can be supplied when so specified without additional charge.

Cat. No.	3738	3758	3778	3798
Stock No.	(890822)	(890823)	(890824)	(890825)

TEMPERATURE REGULATING STANDS



This is a thermostatically controlled device for the regulation of the temperature of an electric soldering iron while at rest. When placed on this stand, soldering iron is maintained at working temperature, ready for instant use or, if desired, at a lower temperature. Through an adjustment on bottom of the stand, thermostat may be set for the maintenance of any desired temperature—from very low, or warm, to full working temperature. Body of stand is of molded plastic. Soldering iron cradle proper is of metal. Stand is equipped with cord and attachment plug-cap for connection to current and with a receptacle for connection of the electric soldering iron. It is designed for use with electric soldering irons up to 660 watts capacity and on circuits up to 240 volts.

Cat. No.	Stock No.	Net Weight
475	(894673)	27 oz.

WELLER SOLDER GUNS



The Weller Solder Gun heats in 5 seconds, thus saving time and power. The pre-focused spotlight throws light where you need it as you work; like having an extra hand. The inexpensive readily replaceable loop tip gets in between wiring easily. This tip

can be bent to meet the requirements of any particular job. Greater terminal length gets down farther into the switchboard or chassis. Comfortable pistol grip.

Model D-440 has dual heat—100 watts normal heat on first switch position, 150 watts instantaneous on second.

Cat. No.	Stock No.	Watts	Cycles	Volts
S-400	(895267)	100	60	115
D-440	(895268)	Dual, 100/150	60	115

Replacement Tip for Weller Solder Guns

Cat. No.	Stock No.	Description
7135	(894972)	Tip only, for new S-400 and D-440

Revised 1-1-57

HEXACON BATTERY SOLDERING IRONS

Recommended for soldering in remote areas wherever batteries are available, these soldering irons will generate any degree of heat required for soldering lightest or heaviest work.

These irons will do three times heavier work than the sizes indicate because the elements are embedded in the tips. The tips are small to permit the finest kind of soldering work.

A switch in the handle controls the amount of heat needed for a particular job. Only 6% of the wattage is required to melt solder; the balance of 94% of power is available for quick-heating and extra soldering capacity.

These soldering irons are available in two classes. One operates on either a 6 or 12 volt battery, the other works on a 12 or 24 volt battery. Both irons are identical in size, shape and weight. Both feature hermetically sealed nickel-chromium heating elements that are as easy to replace as lamp bulbs. Each is equipped with a twelve foot rubber heating cord, battery clips and a non-breakable plastic handle.



Battery Type Soldering Iron

Cat. No.	Stock No.	Battery Voltage	Watts	Heating Time (sec.)	Length (in.)	Weight less cord (lbs.)
612	(895664)	6	50	80	12½	¾
		12	210	20	12½	¾
624	(895665)	12	50	80	12½	¾
		24	200	20	12½	¾

KEMODE QUICK-SHOT SOLDERING IRON



Kemode cartridge-heated soldering iron needs no electricity, no flame or external heat of any kind. Reaches working temperature in twenty seconds and maintains soldering temperature for 6 to 8 minutes. Peak wattage rating exceeds 250 watts. Accepts ¼", ⅜", ⅝" or 1" tips.

Catalog No.	Stock No.
Model QS - ¼	(897245)
Model QS - ⅜	(897246)
Model QS - ⅝	(897247)
Model QS - 100	(897248)

KEMODE QUICK-SHOT CARTRIDGES

The cartridge contains 10,000 calories of heat energy supplied by a thermit mixture sealed in a steel shell. It is non-inflammable, non-explosive and has long shelf life. Packaged 12 in a carton.

Stock Number (894872)

WALL MFG. CO. SOLDERING GUNS



The Wall Mfg. Co. soldering guns feature instant heat without the aid of heavy transformers. Thermostatic action is present but without thermostats of any kind. Available in three types, each feature interchangeable tip and element assemblies. Two of the models have a spotlight and switch to furnish light when and where it is needed. The tips are steel clad and give long service.

Cat. No.	Stock No.	Approx. Tip Size (in.)	Max. Watt Input	Min. Watt Input	Wt. Each w/o cord, (oz.)	Ship. Wt. (Lbs.)	Std. Pkg.
214T	(895659)	¼	400	150	12	2	24
214TN	(895660)	¼	400	150	14	2½	24
212LT	(895661)	½	650	300	24	3	24

PENCIL TYPE SOLDERING IRONS



Ideally suited for fine, close work such as terminal strips, these soldering irons are available in two sizes - ⅛" tip and ¼" tip. Both types feature thermostatic action to give steady heat.

Cat. No.	Stock No.	Tip Size (in.)	Max. Watt Input	Min. Watt Input	Wt. Each w/o Cord (oz.)
14T	(895663)	¼	125	40	1½
18T	(895662)	⅛	90	25	1

KEMODE SOLDERING TIPS For Quick-Shot Irons



1¼", ⅜" and ⅝" Pyramid Type

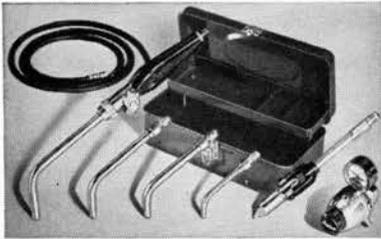
⅜" and ⅝" Chisel Type

1" Chisel

Soldering tips are available in ¼", ⅜" and ⅝" pyramid and ⅜", ⅝" and 1" chisel design.

Stock No.	Description	Stock No.	Description
(897249)	¼" Pyramid	(897252)	⅜" Chisel
(897250)	⅜" Pyramid	(897253)	⅝" Chisel
(897251)	⅝" Pyramid	(897254)	1" Chisel

PREST-O-LITE 5-in-1 OUTFIT



Five distinct outfits for a multitude of uses where it is necessary to apply the proper flame and exactly the right amount of heat to a job. Includes No. 402 Torch Handle, Tank Union for B and MC Tanks, four Torch Stems in graduated sizes, and No. 8 Soldering Iron. Also 6 ft. of hose, and metal carrying case.

Does not include Pressure Regulator, but this may be ordered separately. (See description on this page.)

Catalog No.	Description	Stock No.
30 x 03	5-in-1 Standard Outfit (replaces 0-6109)	(890905)

PREST-O-LITE 4-in-1 OUTFIT



The 4-in-1 Outfit has the same No. 402 handle and open flame stems as the 5-in-1, but omits the soldering iron. Used in the same manner for heating, soldering and light brazing. Comes in a waterproof carrying roll of vinylite, with separate pockets for each part.

Does not include Pressure Regulator, but this may be ordered separately.

Catalog No.	Description	Stock No.
30 x 06	4-in-1 Standard Outfit (replaces 0-6343)	(890895)

Note

The illustrations above show the Precision Models of the 5-in-1 and 4-in-1 Outfits. The only difference between the models illustrated and the Standard Model is that the Precision Model uses No. 401 Handle with shut-off valve (see below), and comes with a Pressure Regulator which is not included in the Standard Model.



No. 402 Standard Torch Handle



No. 401 Precision Handle

R-411 ACETYLENE REGULATOR



The Prest-O-Lite R-411 Acetylene Pressure Regulator is a fully adjustable type which may be set for precisely the correct working pressure regardless of how much gas is in the tank. The gauge shows at a glance the contents of the tank. Often saves its cost by eliminating use of excessive pressures. Pressure adjustment screw regulates pressure from 1 to 13 lb. per sq. inch.

Catalog No.	Description	Stock No.
R-411-MC	Used with MC Tank	(895197)



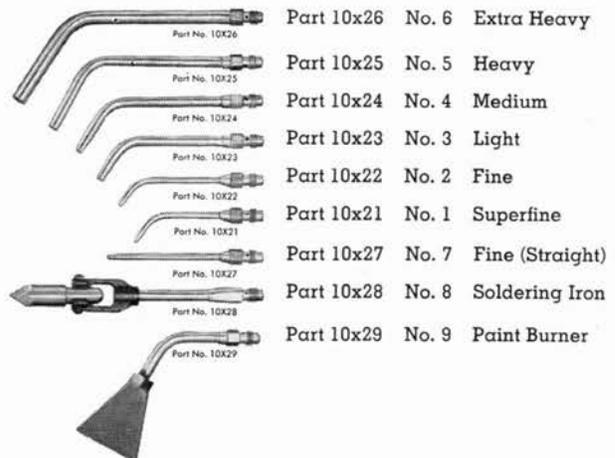
PREST-O-LITE STYLE MC ACETYLENE TANKS

Prest-O-Lite Gas is available in steel shell tanks which deliver pure acetylene at the turn of a valve. In these tanks it is freeze-proof and of guaranteed purity. Refills can be obtained for the price of the gas alone.

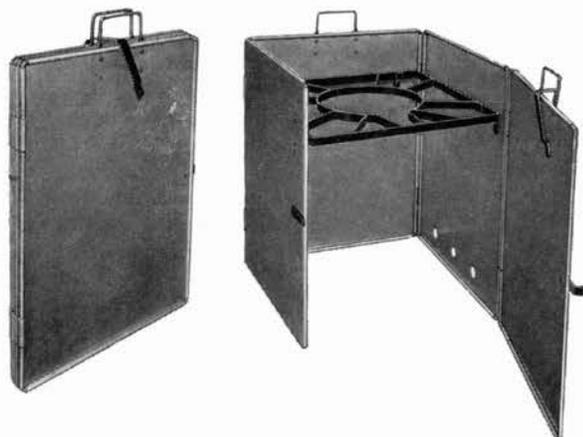
Style No.	Capacity Cubic Ft.	Height Inches	Dia. Inches	Weight Lbs.	Stock No.
MC	10	15	4	9½	(890907)

PREST-O-LITE EXTRA STEMS

Prest-O-Lite Torch Stems, as used in the 5-in-1 and 4-in-1 Outfits are available separately on special order.



WALL DREADNAUGHT SAFETY SHIELDS



Most efficient shields on the market. Meet rigid government specifications.

Each panel measures 17" wide by 23" high. Two-way hinges permit compact folding for easier carrying. Made from 22 gauge galvanized steel with 1/4" galvanized steel reinforcing rod rolled in around edges. Convenient carrying handles. Grates and brackets on No. 320G are made of heavy gauge steel. Over-all panel locks hold panels in place. No. 320G closes to 2 1/2" thick. No. 579 closes to 1 1/2" thick.

Catalog No.	Stock No.	Shipping Weight
320G	(897257)	29 lbs.
579	(897258)	18 lbs.

NO. 41 AND 42 UTILITY BLOW TORCH



The Burner Casting surrounds fuel vein of extra heavy steel tubing assuring complete generation, intense heat and long life. It is equipped with windshield and is not affected by the coldest and windiest weather. Cleaner pin in end of valve cannot enlarge orifice. Orifice block is replaceable if damaged. Bakelite control wheel stays cool.

Tank is drawn from heavy gauge cold rolled steel and bottom is electrically seam welded to the shell. All fittings are flanged and brazed. Angle handle most convenient to operator. Pump has blow-proof construction originated by Wall. Long stroke and positive action provide ample pressure quickly. Check valve is completely enclosed, cannot become injured. Finish: Attractive gold bronze color, trimmed with glossy red handle.

Shipping weight each 5 1/2 pounds. Packed 12 per case weighing 68 pounds.

Cat. No.	Stock No.	Capacity	Fuel
41	(897259)	1 qt.	Gasoline
42	(897260)	1 qt.	Kerosene

WALL SUPERIOR BLOW TORCHES

No. 331 Superior Blow Torch



Tank — Drawn from heavy gauge sheet steel, bottom electrically seam welded to tank shell. Fills through funnel shaped bottom.

Burner — Cannon type, cast from special alloy bronze that resists heat fatigue. Delivers extremely hot blue blast. Attractive in appearance.

Needle Valve — Square shoulder seat on valveshaft prevents orifice enlargement. Slender pin-type cleaning

needle automatically cleans orifice. Black bakelite valve wheel stays cool.

Pump — Has blow-proof construction originated by Wall. Long stroke and positive action provide ample pressure quickly. Check-valve completely enclosed, cannot become injured.

Handle — Has plenty of hand-room, correctly pitched for perfect balance. Pisto-Grip design. Regular handles available on request.

Inlets — Pump, burner and filler inlets brazed into place.

Shipping weight each 4 pounds. Packed 12 per case weighing 48 pounds.

Cat. No.	Stock No.	Capacity	Fuel
331	(897261)	1 qt.	Gasoline
331S with Shield	(897262)	1 qt.	Gasoline

WALL DREADNAUGHT FURNACES
No. 50 Big Brute Splicer's Furnace



The design represents a departure from previous existing furnace practice and is a direct result of study of the needs of the splicer. It has been tested under the most severe weather conditions and has been adopted as standard equipment by a number of the largest TELEPHONE and POWER Companies. The tank has extremely wide base to give greater stability.

The flue completely surrounds the burner assembly, is reinforced with heavy bands at top and bottom, has two hinged doors for ready access to burner, and is held in place at back of tank by special hinge and in front with wing nuts and flue catches.

Burner assembly includes the DREADNAUGHT patented furnace burner, pressed steel drip cup and overflow saucer, and a scientifically designed heat dissipator mounted on the valve housing. This supply valve is a brass forging.

Pump shell is of seamless drawn brass construction with patented check valve. Pump handle is forged brass T type permanently fastened to pump rod. Filler Plug is forged steel.

Quickly melts large quantities of solder, compound or paraffin.

Specifications

Tank Capacity	1 Gal.
Height without Hood	15"
Hood Diameter at Top (Tapered)	9 7/8"
Hood Diameter at Base (Tapered)	7 1/2"
Hood Height	6"
Straight Hoods	7 1/2" dia. x 6" height
Maximum Tank Diameter	10 1/2"
Shipping Weight Each, Lbs.	27

Made for Kerosene or Gasoline use. State fuel to be used.

1 to a Standard Shipping Case — 22 lbs.

Cat. No. 50

Stock No. (897255)

WALL NO. 55 FURNACES



The No. 55 furnace is a low price tool with burner that assures efficient operation and maximum heat. Drawn steel tank with all inlets brazed and bottom electrically seam welded into tank shell.

Wide base, minimum height. Burns gasoline only.

Cat. No.	Stock No.	Tank Capacity Gal.	Height Without Hood	Max. Hood Diam.	Max. Tank Diam.	Weight in Pounds	No. to Case	Shipping Wt. Each Pounds
55	(897256)	1	12"	7 3/4"	9"	11	1	13

STROMBERG-CARLSON

STROMBERG-CARLSON

Chairs, Booths, Pay Stations



**Comfortable, scientifically constructed Sturgis Posture Chairs;
handsome, acoustic telephone booths in either wood or metal;
Pay Stations adapted to any line for that extra income.**

CONTENTS
SECTION U

CHAIRS, BOOTHS, PAY STATIONS

	Page
Posture Chairs	3u
Folding Door Telephone Booths	5u
Outdoor Telephone Booths	6u
Wall Type Telephone Booths	8u
Pay Station Signs	8u
Self-Contained Pay Stations	10u
Pay Station Accessories	13u

STURGIS POSTURE CHAIRS

Sturgis chairs are designed and built by chair specialists to give day-long comfort. They are ideal for telephone operators and any others whose work requires a high base chair with a firm but flexible back.

Chairs shown are representative of this well-known line.

Legs and supports are made of welded steel for strength and stability, and "Bonderized" for permanence of enamel. All surfaces are smooth, with rounded corners. The very finest upholstery or caning is used. Warm enamel colors are perfectly matched and infra-red baked in new modern ovens.



No. SC-500-7



No. SC-500-8

No. SC-500 Leather Operator's Chairs

All models feature tubular steel frames, foam rubber seats covered with either elastic Versilan (a vinyl plastic) or deep buff genuine leather, and adjustable padded backrests. Genuine leather seat will be furnished unless otherwise specified.

The hub and spindle on each chair are threaded with 4 pitch Acme thread which provides greater bearing surface for a longer life as well as making possible faster adjustments to proper seat heights. Approximate seat height adjustment range is 4 inches.

Rubber cushioned steel glides are standard.

The backrest is adjustable through an approximate 4 inch range, Sturgis "Follow-Flex" springs provide constant support even though the occupant may be in various positions.

Seat cushions of 2½-inch foam rubber are molded to provide relief at the base of the spine.

Catalog No.	Stock No.	Minimum Height	Maximum Height Approx.
SC-500-1	(897330)	18"	22"
SC-500-3	(897332)	20"	24"
SC-500-5	(897334)	24"	28"
SC-500-7	(897336)	28"	32"

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

No. SC-500 Cane Seat Operator's Chairs

With the exception of the seat itself, all other features of this chair are the same as those on the leather operator's chair.

The cane seat is made from closely woven cane of the finest grade obtainable, mounted on a hard maple frame with a front rail contoured to minimize discomfort resulting from pressure on thighs.

Catalog No.	Stock No.	Minimum Height	Maximum Height Approx.
SC-500-2	(897331)	18"	22"
SC-500-4	(897333)	20"	24"
SC-500-6	(897335)	24"	28"
SC-500-8	(897337)	28"	32"

Sturgis Chairs are made in several seat height adjustments to fit varying keyshelf or desk heights. The table below will help to make the proper selection; adjustment within range limits can be made easily and quickly without any tools whatsoever.

Floor to Top of Keyshelf	Order Chair with Adjustment Height	Floor to Top of Footring
31" or less	18" to 22"	5¾"
31" to 34"	20" to 24"	5¾"
34" to 38"	24" to 28"	8¼"
40" or more	28" to 32"	13¼"

Revised 5-1-57



Cane Seat

Cane Seat Operator's Chairs

The finest grade cane available is closely woven on a comfort-designed hard maple frame. Cane seats are popular because they are cool and clean. Pleated posture curved backrests are cushioned with four individual natural latex, foam rubber pads. The seat frame is turquoise color to match the nylon Bedford Cord upholstery on the backrest. The steel frame is of the same construction and color as that of the upholstered chairs shown in the adjacent column.

Catalog No.	Stock No.	Minimum Height	Maximum Height
List 4	(897339)	18"	22"
List 8	(897341)	20"	24"
List 10	(897343)	24"	28"
List 12	(987345)	28"	32"

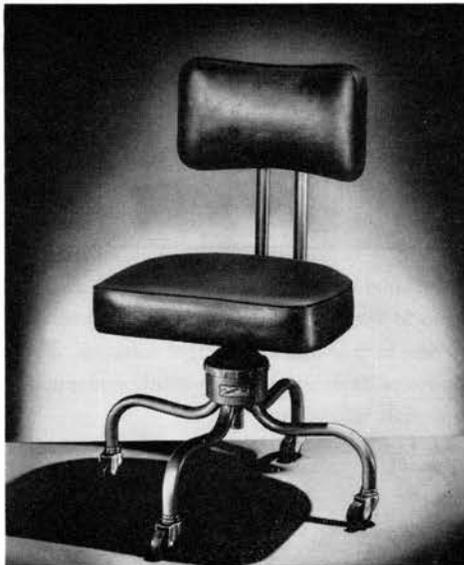


Upholstered Seat

Upholstered Foam Rubber Operator's Chairs

These chairs are available in four heights as shown in the chart below. The frames of these chairs are of steel, accurately cut and welded at all joints, providing a construction designed to withstand twenty-four hour a day punishment. Cushioned with natural foam rubber latex, the seat is designed to relieve pressure at the base of the spine. The pleated posture curved backrest is cushioned with four individual natural latex foam rubber pads. Both the backrest and the seat are covered with extra long wearing nylon Bedford Cord in turquoise. The footring is oval in shape for greater security and foot-comfort. Both the footring and the steel frame are heavily coated with a mahogany-color plastic.

Catalog No.	Stock No.	Minimum Height	Maximum Height
List 3	(897338)	18"	22"
List 7	(897340)	20"	24"
List 9	(897342)	24"	28"
List 11	(897344)	28"	32"



Low Base Chair No. 624

Low Base Operator's Chair No. 624

(Shown at Left)

This chair is for use with switchboards whose keyshelf is low enough for the operator to rest her feet comfortably on the floor. Also widely used by stenographers and office workers at regular desks.

Seat cushion is constructed of coil springs topped with foam rubber covered with genuine leather. A large back is mounted to the back posts by Follow Flex back spring.

Available with glides or casters. One size only.

Catalog No. 5C-624

Stock No. (894600)



No. 1200-G

The Executive Swivel Chair

The Executive 1200 Series Swivel Chair offers beauty, efficiency and perfect posture support together with steel frame construction and hand tailored upholsteries. Well cushioned backrest and coil spring seat give complete seating comfort. The fiber glass base is virtually immune to all normal office abuse. Scuffs and blows simply will not disfigure or dent it. It is non-corrosive and will never need refinishing throughout its life. The fiber glass base is noiseless and self-leveling regardless of the unevenness of the floor and is available in one of five colors—gray, walnut, charcoal, light green and dark green. The upholstery is Deep Buff Leather: offered in green, brown, maroon and black.

Catalog No.	Stock No.	Minimum Height	Maximum Height
1200-G	(897346)	17"	20"



No. 840-G

The All Purpose Clerical or Office Chair

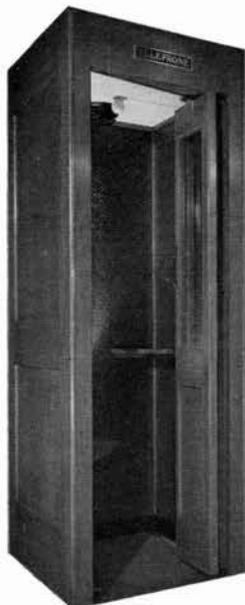
The No. 840-G all purpose chair was designed not only for looks but also to provide posture-correct and comfortable seating for the user. It is big in every way—big in the back, in the seat and in its plus value features. With one adjustment, that of seat height, this chair will provide comfortable seating for most women.

Foam rubber is used throughout, providing the ultimate in seating comfort and posture. The chair swivels on a scuff-proof, noiseless, and self-leveling fiber glass base that harmonizes with the color of the metal parts. The upholstery is Deep Buff Leather: offered in green, brown, maroon and black.

Catalog No.	Stock No.	Minimum Height	Maximum Height
840-G	(897347)	16"	20"

CHURCHILL TELEPHONE BOOTHS

With Folding Door



No. 100

A self-contained booth designed for single or multiple installations. It effects a pleasing appearance from all angles.

Furnished without a floor. Standard equipment includes: Automatic door switch for lights and electric ventilator, silent electric ventilator, complete automatic lighting equipment, complete metal lining. Acoustically designed.

Dimensions: Height, 84½ inches; width, 30½ inches; depth, 30½ inches.

Shipped knocked down and crated.

Seats obtainable at extra cost.

With Glass in Door Only

Cat. No.	Stock No.	Description
100-A	(893419)	Of Oak, Light or Medium Oak Finish with Soft Wood Back.
100-B	(893420)	Of Birch, Light or Medium Mahogany finish with soft Wood Back.

MODEL A-1 HANDI-BOOTH



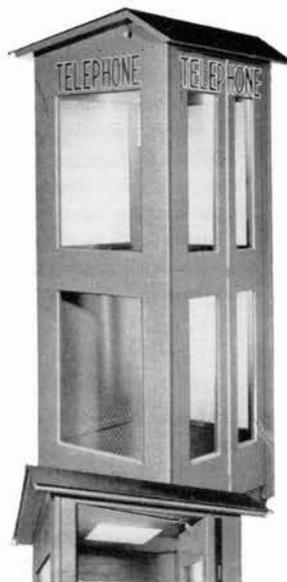
A new design in an inexpensive outdoor booth which requires no high-cost installation. Supplied with a 6½ foot steel mounting post which can be set in a post-hole filled with concrete. Available also with solid aluminum back for wall mounting. Plastic lighted top increases night revenue. Patented waterproof aluminum and safety-glass construction — keeps bugs, dust and dirt out. Everything rust-proof — comes complete with plastic top, light, mounting post, and shatterproof safety glass. Wiring enters through base. Dimensions: 18" long x 13" deep x 30" high. Shipping weight 86 lbs. Directory chain supplied. Aluminum panels may be submitted for any of the clear glass panels. These will be incorporated without charge if specified when booth is ordered.

ing enters through base. Dimensions: 18" long x 13" deep x 30" high. Shipping weight 86 lbs. Directory chain supplied. Aluminum panels may be submitted for any of the clear glass panels. These will be incorporated without charge if specified when booth is ordered.

Cat. No.	Stock No.	Description	Shipping Wt.
A-1	(897263)	Post type, clear back	86 lb.
A-1-A	(897264)	Post type, solid back	86 lb.
A-1-8	(897265)	Wall type, solid back	86 lb.

CHURCHILL OUTDOOR TELEPHONE BOOTHS

**Glass Door and Sides
No. 500**



The new Churchill No. 500 Outdoor Telephone Booth is sturdily constructed, manufactured from California Redwood. With its large, clear "Telephone" sign on all four sides of the booth and with nine large quarter inch plate glass reinforced windows, this booth will serve faithfully in all kinds of weather.

These booths are especially useful near gas stations, sports arenas, parking lots and highway intersections.

The No. 500 booth features photo-electronic night lighting which goes on at dusk and turns off at dawn. Folding doors and brilliant interior lighting are additional features. There is a full size writing shelf along with ample space for mounting a pay station telephone. Entrance ducts for both telephone and electric wires are provided.

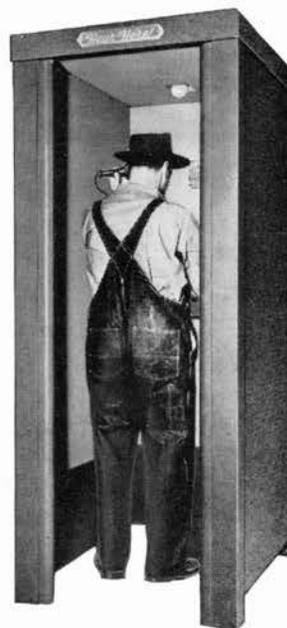
Slate grey, orange or blue are the standard colors offered. Special color combinations are available at a slight additional cost.

Size 30" x 30" x 86". Shipped crated, set up and ready for use.

Catalog No. 500

Stock No. (895864)

MODEL 211



Burgess Model 211 Acousti-Booth of heavy-duty all-steel construction, for use in power stations, factories, or other places requiring sturdy construction. Durable black wrinkle finish. Outside dimensions: 31 in. wide, 79¼ in. high, 38½ in. deep. Inside dimensions: 24 in. wide, 76¼ in. high, 35 in. deep. Shelf: 24 in. by 8¼ in. Net weight 350 pounds. Shipping weight 410 pounds.

Stock No. (894680)

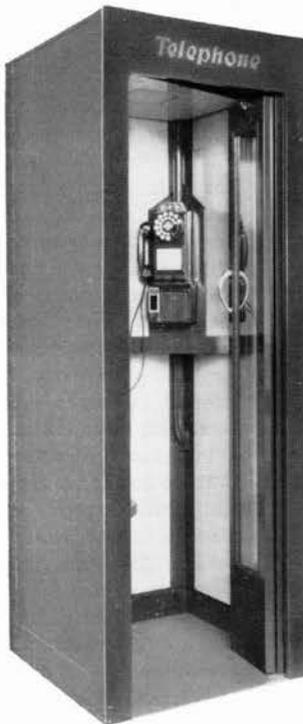
Revised 11-1-55

SHERRON ACOUSTIC STEEL TELEPHONE BOOTHS

Sherron Acoustic Booths are available for either indoor or outdoor use. All models are of rigid fire-proof steel construction, 30" x 30" in area. Indoor booths have acoustic panels backing the perforated steel lining. All outdoor booths except Model 15-S, are available in flat, peaked or Astra-Dome roofs.

Booths feature adjustable backboard and shelf. Weatherproof fittings are provided for incoming wires. Ceiling lights and automatic door switches are included.

Extras include linoleum covered seat assembly, Lite-O-Matic photo-electric control switch (on Models 17-S and 25-S only), and ventilating or air conditioning unit.



Model 18-S

MODEL 18-S INDOOR BOOTH

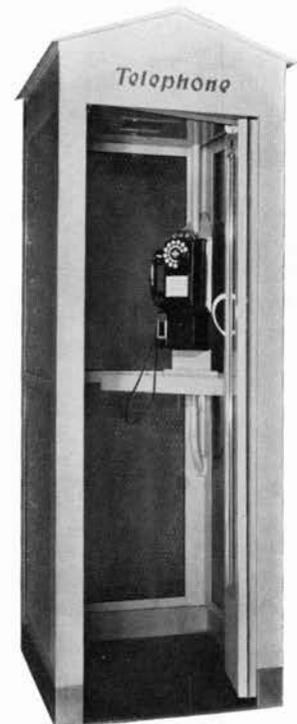
Linoleum covered steel stands only 1/2" above floor. Finished in baked synthetic enamel: interior, gray; exterior, light brown, dark brown or maroon.

Model	Stock No.	Height	Ship. Wt. Packed
18-S	(893433)	83 3/4"	500 Lbs.

MODEL 15-S OUTDOOR BOOTH

Zinc coated steel construction. Rigid base with safety plate floor. Half panel construction — lower half steel, upper half wire glass. Decal "Telephone" sign. Peaked roof. Flame red color.

Model	Stock No.	Height	Ship. Wt. Packed
15-S, Type 1	(895865)	89 1/4"	500 Lbs.



Model 15-S

MODELS 17-S OUTDOOR BOOTHS

Available in three types — Types 1, 2, and 7. Colors on all types are: red, orange, yellow, green.

Type 1 has half section panels — lower half is steel and upper half is wire glass. Flush incandescent ceiling light. "Telephone" is stenciled on front. Recessed directory unit is extra.

Type 2 has quarter section panels—lowest quarter is steel and remaining quarters are safety glass. Steel panels can be substituted for glass in any location.

Type 7 is similar to Type 1 but has translucent "Telephone" signs appearing on three sides whereas Type 1 has only one stenciled "Telephone" sign.

Model	Stock No.	Height	Ship. Wt. Packed
17-S, Types 1 & 7	(895185)	89 1/4"	650 Lbs.
17-S, Type 2	(895866)	89 1/4"	650 Lbs.



Model 17-S Type 2

MODELS 25-S OUTDOOR BOOTHS

Type 1 is similar to Model 17-S, Type 1, in styling but is of stainless steel construction.

Type 2 is similar to Model 17-S, Type 2, in all respects but is offered in stainless steel.

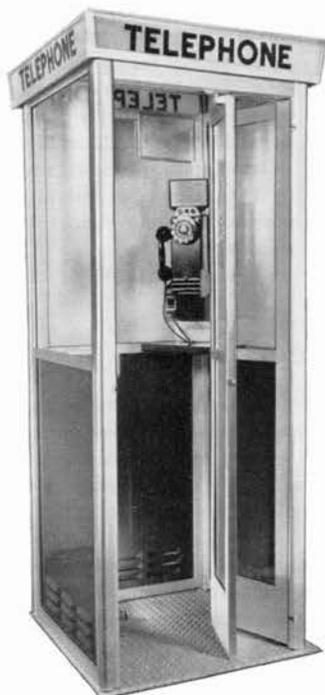
Both offered in choice of colors: red, orange, yellow, green.

Model	Stock No.	Height	Ship. Wt. Packed
25-S, Type 1	(895186)	89 1/4"	650 Lbs.
25-S, Type 2	(895867)	89 1/4"	650 Lbs.



Model 25-S Type 2

**BENNER NAWMAN
OUTDOOR TELEPHONE BOOTHS**



These telephone booths are made with safety glass and enameled steel panels that are attractively arranged in lightweight aluminum frames. All materials resist stain and remain bright and shiny even after years of use and weather.

Benner Nawman booths feature safety, convenience and durability. The doors are mounted with semi-concealed hinges which eliminate the possibility of pinching even a child's finger. Self-closing doors may be provided on request. The booths are naturally ventilated both at top and bottom.

The booths are shipped, knocked-down, in five cartons. They can be easily installed by one man with no special training in less than an hour. The panels

are self-locking; the foot mountings accommodate inaccurate drillings in the floor. The booth may be levelled without shims on floors that may be as much as 1 3/4 inches out of level. Incoming wires may be brought into the booth at the top, bottom or through the floor.

Shipping weight — 326 pounds. Plated steel floors are available for all models at extra cost.

Model — Type A

Has safety glass panels in top half of side sections and metal panels on bottom half of sides and both top and bottom halves of the back section. It also has switch controlled interior light and a 7 1/2-watt lamp that burns at all times. No illuminated signs.

Model — Type B

Has safety glass in both halves of the side sections and an all-metal rear section. Otherwise it is the same as Type A.

Model — Type C

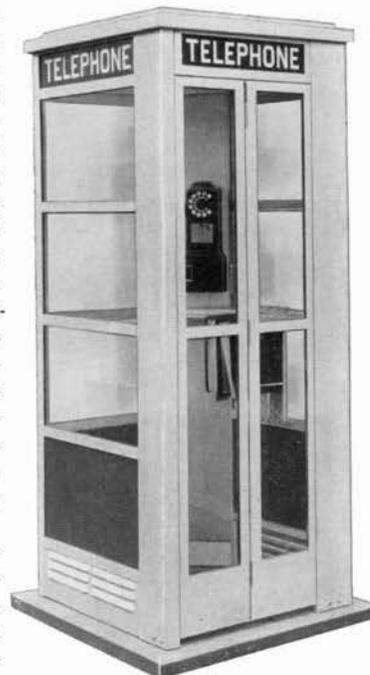
Has same panel arrangements as Type A but with illuminated sign. One fluorescent lamp illuminates the booth as well as the ground around the booth.

Model — Type D

Same panel arrangements as Type B but with illuminated top sign as Type C.

To order these booths,
Specify type desired
Stock No. (895784).

**ALCOA OUTDOOR
TELEPHONE BOOTHS**



Made of extruded aluminum with Alumilite finish, these booths offer roomy, comfortable service and feature large shelf spaces for customers to deposit their bundles while making calls. These booths are made up of six interchangeable sub-assemblies which interlock into solid structures. If a traffic accident damages one side of the booth, the damaged portion may be easily removed and replaced with another section.

The panels are interchangeable and are offered in two combinations. One combination has 9 safety glass panels and 3 porcelain enameled colored panels to be used on three sides of the booth. The other combination is made up of 6 safety glass panels and 6 porcelain enameled panels. Red is the standard color for the enameled panels. All panels are the same size.

Each panel, whether colored or safety glass is cushioned in weather resistant synthetic rubber and held in place by interlocking aluminum retaining strips and one screw.

Each door is of the equal leaf, folding type with safety glass panels and kick plates. Hardware is Alumilite finished aluminum and stainless steel. Also included are an adjustable door closing device and a spring door stop to hold the door ajar.

Upkeep is low. Pencil marks and grease smudges are easily removed by wiping or washing. The booth never needs to be repainted and it never rusts for all parts are either aluminum or stainless steel.

Good ventilation is provided at both top and bottom. Accumulation of rain and melted snow is directed toward the rear of the booth by a gutter system.

The standard floor is a concrete pad which is to be supplied by the purchaser. However, a heavy aluminum alloy floor plate is available at extra cost.

Interior wiring for booth illumination is supplied. Inlets for power and telephone leads are also provided at both top and bottom. Four glass telephone signs are furnished and are illuminated by twin fluorescent lamps which also light the booth.

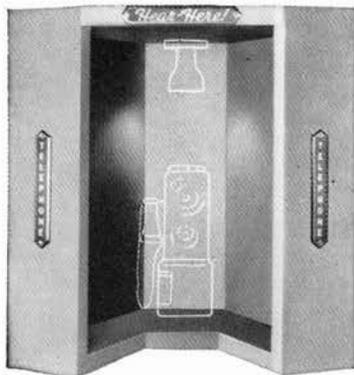
When booth is completely assembled, it is equipped with a removable steel cross brace at the bottom and is mounted on a wooden skid. It is then crated for domestic shipment. Booths may also be furnished in six knocked-down sub-assemblies that can easily be assembled.

A booth weighs 360 pounds when it is erected.
Size of each booth is 33 1/2" x 33 1/2" x 86 1/8".
Stock No. (895783).

Revised 1-1-57

BURGESS INDOOR BOOTHS

MODEL 45

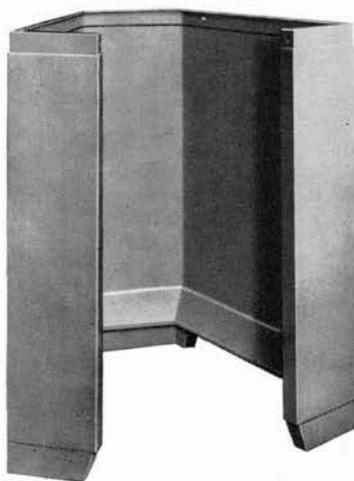


All the privacy of a full length booth is offered in this half-length Model 45 Acousti-Booth. The unique design of these booths offer several ways in which they can be mounted — from straight line to circular arrangement.

Outside noise is reduced 50% which results in approximately 14 db attenuation inside the half length booth. The high efficiency of this booth is due to its configuration and its patented acoustic construction. The walls are made of thick sound-absorbing material that is protected on both sides by steel paneling. This provides a quiet, restful place to hear well. Conversations are clear and private; outside noises fade away.

The booth's modern style will combine with most decorating schemes. It has a silver-gray, hammered-enamel finish to give maximum durability as well as a pleasing

appearance. A single shelf provides a large writing surface and an armrest for comfort. A light fixture is supplied only on request and at additional cost. Model 45 Stock No. (895700)



FLOOR STAND FOR MODEL 45

Floor stand for the Model No. 45 for use where it is desired to have a full length booth, and for those locations where wall mounting is not convenient. Same finish as booth.

Net Weight: 72 lbs. Shipping Weight: 100 lbs.
Stock No. (897266)

BURGESS ACOUSTI BOOTH MODEL 601



Burgess "Scout" Model 601 Acousti-Booth is ideal for busy public places where space is limited. Reinforced plywood construction with rich walnut stain exterior finish. Outside dimensions: 28 in. wide, 32 in. high, 26 in. deep. Shelf: 23½ in. wide by 17 in. deep. Net weight 60 pounds. Shipping weight 80 pounds.

Stock No. (894677)

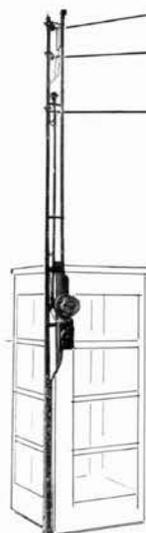
BURGESS ACOUSTI BOOTH MODEL 602



Burgess "Scout" Model 602, similar to Model 601, but of rigid all-steel construction. Heavy-gauge perforated steel sheets protect the acoustic material. Durable black wrinkle exterior finish. Outside dimensions: 28 in. wide, 32 in. high, 26 in. deep. Shelf: 24 in. wide by 17 in. deep. Net weight 85 pounds. Shipping weight 120 pounds.

Stock No. (894678)

TELEPHONE BOOTH MASTS



Model TBM Service Entrance Masts provide complete service entrance facilities for outdoor booths. It is easy to install and will fit any booth. The mast is heavy gauge steel tubing and available in lengths of 12, 14, 16 or 18 feet.

These masts can be moved easily to any location. Simply remove the entire unit from the ground sleeve, drive new ground sleeve at new location and install mast.

All units are equipped with Type C meter sockets. Other types furnished on request. Masts that are equipped with meter socket and circuit breaker have letter "S" in their catalog number. Letter "L" in the catalog number shows unit is equipped with time clock and flood lights. Letters "SL" show unit has combination of above equipment. Numerals indicate length of mast from ground level.

Catalog No.	Stock No.	Description
TBM-12	(895868)	Complete Unit
TBM-14	(895869)	Complete Unit
TBM-12S	(895870)	Complete Unit
TBM-14S	(895871)	Complete Unit
TBM-12SL	(895872)	Complete Unit
TBM-14SL	(895873)	Complete Unit
SM-122	(895874)	Drive Hammer Assembly

GLADWIN ILLUMINATED TELEPHONE BOOTH ROOF



The Glo-Dome is made of all weather acrylic plastic making it an ideal roof for replacement or new installations on outdoor telephone booths. Lettering is actually inside to prevent it from weathering. Positive fit prevents slipping, and makes it completely water

and bug proof. Transmits more light so it can be seen, and readily identified.

Stock No. (897267)

Shipping Weight 25½ pounds.

STROMBERG-CARLSON

GLADWIN TRI-DIRECTIONAL SIGN



The Tri-Directional Sign is an illuminated public telephone sign carrying the standard size emblems. The face of this sign is acrylic plastic with the colored copy on the inside to protect it from damage. It is lighted with a 22-watt standard circline fluorescent lamp. The sign is furnished complete ready for installation.

Cat. No.	Stock No.	Size	Description	Weight
T-1145	(897268)	11 x 11	USITA emblem	11 lbs.
T-1146	(897269)	18 x 18	USITA emblem	23 lbs.
T-1149	(897270)	11 x 11	Telephone Receiver emblem	11 lbs.
T-1150	(897271)	18 x 18	Telephone Receiver emblem	23 lbs.

INDEPENDENT PAY STATION TELEPHONE SIGNS



No. 1

These signs are unlike the lithographed steel signs.

The enamel is fused into the steel (18 gage) with a blast furnace in 1500° heat. Guaranteed never to fade or tarnish from effects of the weather.

In colors red, white, and blue.

List No.	Stock No.	Trade No.	Size Inches
1161	(893506)	1	17x18
1163	(893507)	2	8x18



No. 2

PUBLIC TELEPHONE SIGNS



IR-2



IR-1



IR-3

These signs are of porcelain enamel, permanently fused to special enameling iron or steel, and are colorful, durable, non-fading and economical. They are guaranteed to last ten years under all service conditions — indoors or outdoors.

The square sign has blue letters on a white background and measures eleven inches on a side. The rectangular sign has the same colors and measures 12 1/8" x 5 1/2". The circular sign also has the same colors and is 7" in diameter.

The square sign has its own mounting bracket, while the other two are provided with holes so that they may be nailed to convenient posts or walls.

Catalog Nos.	Stock Nos.	Description	Size (inches)
IR-1	(895734)	"Public Telephone"—double faced	11 x 11
IR-2	(895735)	"Public Telephone"—with arrow double faced	12 1/8 x 5 1/2
IR-3	(895736)	"Public Telephone"—single face	7 dia.

POST PAYMENT ATTACHMENT TYPE PAY STATIONS Non-Electrical — For Local or Central Battery Service

The operation of these pay stations is accomplished without the aid of moving parts or electrical connections, the signals being produced by the coins striking gongs or chimes, the sound of which is transmitted to the central office operator through the transmitter of the telephone at which the pay station is located. In view of the simplicity and reliability of these pay stations, their maintenance cost is extremely low.

In the case of handset type pay stations, the signals are picked

up by a special signal transmitter mounted within the box. These pay stations cannot be used for pre-payment service, as the coin is not under the control of the central office operator.

Pay stations are complete with locks but less any telephone parts.

When specified, any of the pay stations requiring Transmitter, Receiver, Cords or Dials will be equipped with these parts at regular catalogue prices.

NO. 11 THREE-SLOT SIDE MOUNTING



This popular station is designed to attach to any wall type telephone set in present use. It is connected to the telephone by means of a mounting plate, which is included with the station.

Dimensions: 9 inches high, 4½ inches wide, 3 inches deep.
Approximate shipping weight, 13 pounds.

Catalog No. 11

Stock No. (893478)

NO. 23-J COMPACT HANDSET TYPE



This station is similar to the No. 23-D, but it is arranged for a handset. It includes the switchhook and hook switch springs and requires only the usual bell box and handset with associated cords.

The universal mounting plate on this station allows for either shelf or wall mounting.

The No. LD-72 signal transmitter is included as part of the standard equipment.

Dimensions: 10½ inches high, 6 inches wide, 4¼ inches deep.

Approximate shipping weight, 20 pounds.

In ordering state the type and make of handset and ringer box to be used.

Catalog No. 23-J Stock No. (893484)

NO. 11-J UNIVERSAL HANDSET TYPE



This pay station is similar to the No. 11, but it is arranged for use with a wall type or desk type handset telephone set. The universal mounting plate is arranged for either wall or shelf mounting and a signal transmitter is mounted within the box to pick up the coin signals. It is not necessary to mechanically connect the pay station to the telephone set, but the signal transmitter must be cut into the handset transmitter circuit. A 2-conductor cord is required for this purpose. The No. LD-72 signal transmitter is included with the pay station as standard equipment.

Dimensions: 9 inches high, 4½ inches wide, 3 inches deep.

Approximate shipping weight, 16 pounds.

Catalog No. 11-J

Stock No. (893479)

Note: The Type 23-J pay station is not convertible to automatic, to reverse battery, or to pre-pay operation. See following pages for equivalent pay stations with handset and employing these other types of operation.

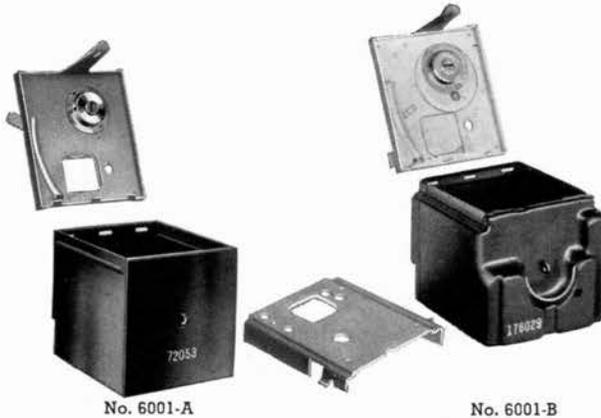
Ringer Boxes

For use with Type 23 Pay Stations, Stromberg-Carlson no. 1260 Desk Set Box is recommended. This includes ringer, induction coil and capacitor, housed in a modern plastic case, ready to be wired in directly. With the Type 90 Pay Stations, which contain an induction coil, Stromberg-Carlson No. 1261-B straight line or No. 1261-BZ straight line biased extension ringers are suitable.

Note—Special wiring diagrams for connecting these ringers in the pay station circuits are available upon request from Stromberg-Carlson's main office at Rochester.

ACCESSORIES FOR PAY STATIONS

No. 6001 Self-Locking Coin Receptacles



With this receptacle, the coin opening in the cover is automatically locked when the receptacle is removed from the pay station. The collector does not handle any money but merely replaces the full receptacle with an empty one, which has had the cover sealed in place by the Company office.

No. 6001-A is the plain type of receptacle.

No. 6001-B is of the latest design. The tray is expanded at every possible point to obtain the maximum coin capacity. A wire handle permits easy removal from the pay station.

Catalog No. 6001-A Stock No. (893501) Capacity \$25.00
 Catalog No. 6001-B Stock No. (893502) Capacity \$30.00

Type P-50197 Lead Seals

Used for extra safety with the No. 6001 self-locking coin receptacles. Sold in packages of 100.

Catalog No. P-50197 Stock No. (894934)

ANTI-STUFFING COIN RETURN



The Anti-Stuffing Coin Return device will prevent the blocking of coin chutes with gum or paper. A Special kit is available for converting present pay stations. The kit consists of Anti-Stuffing Coin Return, modified refund chute, coil spring, hinge pin, and a return escutcheon. A special drill jig is required to properly locate the hinge pin.

Cat. No.	Stock No.	Description
P-70293	(897201)	Anti-Stuffing Coin Return Kit
P-70294	(897202)	Anti-Stuffing Coin Return Drill Jig

Type P-50649 Sealing Tools

Used with P-50197 Lead Seals on the self-locking coin receptacles. They can be supplied engraved with the telephone company's designation when specified.

Catalog No. P-50649 Stock No. (894935)

Type 2-A Coin Receptacle

Non-locking. Standard box which is supplied unless another is specified. Capacity \$30.00.

Catalog No. 2-A Stock No. (893500)

No. 139-A Shelf Bracket

This bracket is used to mount any of the Standard Pay Stations on a horizontal surface such as a shelf or counter.

Approximate shipping weight, 15 lbs.



No. 139-A

No. 153-A Corner Bracket

This bracket is used to mount any of the Standard Pay Stations in the corner of a telephone booth or other constricted space.

Approx. ship. wt., 17 pounds.



No. 153-A

Cat. No.	Stock No.	Description
139-A	(893503)	Shelf Bracket, Includes Screws
153-A	(893504)	Corner Bracket, includes Screws

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

HOW TO ORDER PAYSTATIONS—HELPFUL SUGGESTIONS

- 1—Specify the type of service desired—either automatic prepay or semi-postpay.
- 2—Specify the type or make of telephone components (handset, dial, etc.) with which the paystation is to be equipped.
- 3—Specify type or make of extended number plate desired — the “Letter-Number” type having red numbers, black letters, and “Operator” in “0” space; or the “1” to “0” type having numbers only (with “Operator” in the “0” space).
- 4—Specify “self-locking coin receptacle,” if open type is not desired. The self-locking receptacle automatically locks as it is withdrawn from the paystation. The collector neither sees nor handles any money—he merely removes one locked coin receptacle from the paystation and replaces it with an empty one.

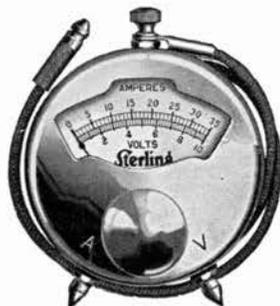
- 5—Card holder, coin signal transmitter, locks, etc., will be furnished where required; they need not be specified.

Example of Correct Ordering

- 4 No. 96-10 Semi-Post Pay Paystations, each equipped with:
 - Stromberg-Carlson No. 23-W Handset
 - Stromberg-Carlson CE-209-44 Dial,
 - Metropolitan type (letters and figures)
 - Stromberg-Carlson No. 1261-B Ringer Box
- 4 No. 6001-B Coin Receptacles
 - . . .
- 1 Kit to convert No. 92 Paystation to 10-cent Operation.

STROMBERG-CARLSON

Meters



Volt meters, ohm meters, Wheatstone Bridges, current flow and transmission test sets for general use inside or outside the office supplement the more specialized test equipment shown in a previous section.

CONTENTS
SECTION V

METERS

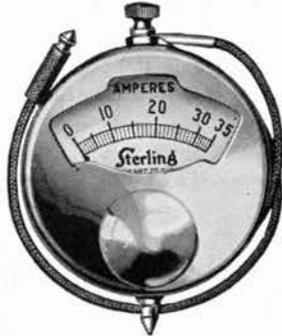
	Page
Pocket Meters	3v
Trouble Locating Meters	3v
Multi-Purpose Meters	4v
Wheatstone Bridges	6v
Dynamometers	6v
Current Flow Test Sets	7v
Transmission Test Sets	7v
Telefault Test Set	8v

STERLING POCKET METERS
Direct Current

Useful in all kinds of battery testing, automotive ignition work, servicing radios, gas engines, motor-boats, doorbells, telephones, and in low-voltage electrical work generally. Serve as polarity indicators.

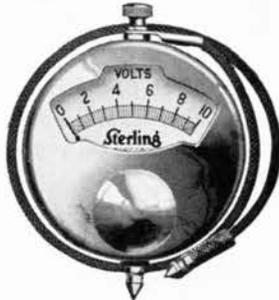
Has calibrated scale, durable, clearly marked dial, and full nickel-finished case, 2¼ inches in diameter and ⅝-inch thick. Equipped with flexible cord and spur for making connections. Packed individually, 10 to a standard package. Shipping weight per standard package, 4 pounds.

NO. 24 AMMETERS



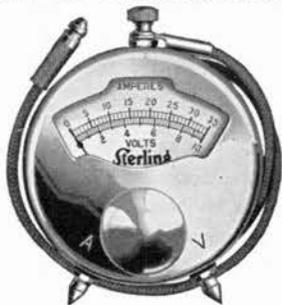
For testing No. 6 dry cells.
Scale is 0-35 amperes, 1 ampere divisions.
Stock No. (892100)

NO. 34 VOLTMETERS



For 6-volt batteries, dry or storage.
Scale is 0-10 volts, 1/5-volt divisions.
Stock No. (892101)

NO. 44 VOLTAMMETERS



For storage batteries and dry cells.
Scale is 0-35 amperes, 1-ampere divisions; 0-10 volt scale, 1/5-volt divisions.
Stock No. (892102)

STEWART MIDGET DETECTO-METER
Model D-1



The lineman's companion; extremely handy and light in weight. A pocket sized voltmeter. This meter is used for rapidly locating poor joints, crosses, shorts, grounds and other line and cable troubles.

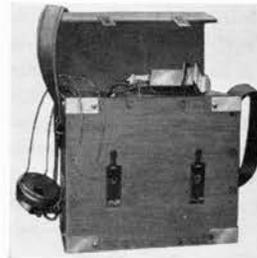
The unit has a 0-10,000 ohms scale, powered by a self-contained #2 flashlight battery. Resistance is measured by connecting the two clips across the unknown circuit or faulty line.

Furnished in two voltage ranges: 0-1.5 and 0-60. Comes in hardwood case with bakelite ends. Furnished complete with battery, two line leads and clips. Size 1¾" x 3 x 6. Weight, 1¼ pounds.

Catalog No.	Scale	Stock No.
Model D-1	0-60	(894665)
Model D-1	0-1.5	(892069)

STEWART TEST SET

Model H



The Stewart Test Set tells which way and how far the trouble is from the tester without opening the line or cutting the wire. The Detecto or pickup coil works with either insulated or bare wire.

A light indicates by its brilliance the approximate distance from fault to tester. The Detecto coil, coupled with the distinctive tone and clarity of signal of the Test Set will quickly determine the direction of the fault from the pickup coil.

Provided with talking circuit which may be used on common or local battery systems; valuable when two men are working together. Unit has self-contained batteries for talking.

Housed in an oak case with leather top and carrying strap. Complete with self-contained generator, batteries, pickup coil, head phone and test cords.

Size	Weight	Stock No.
9" x 9" x 5"	11 pounds	(892073)

STEWART EXPLORING COIL
Amplifier, Model E



A new pocket-sized amplifier to be used with pickup coil test sets in testing or locating buried pipes and cable. The Exploring Coil Amplifier increases the signal strength of the pickup coil, in Cable Testers or Tester and Locator sets; and makes it audible where, without its amplification, it would be difficult or impossible to determine and locate a fault.

The voltage gain is approximately 50. Input and output impedances are matched for 40-100 ohm pickup coil and 40-100 ohm phone. Self-contained A and B batteries, with a volume control on panel.

Size	Weight	Stock No.
5" x 3" x 2"	1½ pounds	(895222)

Revised 10-1-55

STEWART CABLE TESTER

Model L-1



Easy to use and reliable in operation, the Stewart Cable Tester is unique in having an Exploring Coil which is neutral to the tone on the sheath and messenger. This "tone test" feature and the patented Exploring Coil register in the head phone the pair which is at fault.

The Stewart Model L-1 Cable Tester uses two #6 Dry Cells and comes complete with pick-up coil and head phones, housed in a sturdy wood carrying case.

Size
11 3/4" x 10 1/2" x 4"

Weight
10 pounds

Stock No.
(892070)

STEWART TESTER AND LOCATOR

Model A



This Tester and Locator has all the outstanding features of the Model L-1, and in addition a special Depth coil provides the means to locate and measure the depth of buried pipe and cable.

Especially valuable in finding old conduits for which the records have been lost. The Stewart Model

Model A Tester and Locator uses four #6 dry cells and comes complete with Exploring Coil, Depth Coil, head phone and cord, all self-contained in a sturdy wood carrying case.

Size
11" x 12 1/2" x 7 1/4"

Weight
17 pounds

Stock No.
(892071)

VOLT-OHM-MIL-AMMETER MODEL 625-NA

The widest range tester of its type. A long mirror scale for improved reading accuracy; resistance ranges now to 40 Megohms; D.C. Voltage ranges with dual sensitivity (10,000 and 20,000 ohms per volt) provide for double the number of full-scale readings given by the average tester.

18 Voltage Ranges

Six D.C. Volts	0-1.25-5-25-125-500-2500	at 20,000 ohms/Volt
Six D.C. Volts	0-2.5-10-50-250-1000-5000	at 10,000 ohms/Volt
Six A.C. Volts	0-2.5-10-50-250-1000-5000	at 10,000 ohms/Volt

Six Current Ranges

D.C. Microamperes	0-50	at 250 millivolts
D.C. Milliamperes	0-1-10-100-1000	at 250 millivolts
D.C. Amperes	0-10	at 250 millivolts

Three Resistance Ranges

Ohms	0-2000-200,000	(12-1200 at center scale)
Megohms	0-40	(240,000 ohms at center scale)

Six Decibels Ranges

-30, +3.0, +15, +29, +43, +55, +69. (Reference level "0" DB at 1.73 V. on 500 ohm line.)

Output

Condenser in series with A.C. Volt ranges.

General Description

MOLDED, INSULATED CASE—Black molded 2 1/2" x 5 1/2" x 6" with removable black leather strap handle.

PANEL—Black molded with white markings.

CONNECTORS—Two banana jacks on front panel for V-O-MA, A, and COM., and one on left side of panel for 2500 and 5000 volts.

LONG-SCALE INSTRUMENT—The large 6" indicating instrument is adjusted to 50 microamperes at 250 millivolts with separate internal housing for protection of mechanism during battery replacement.

LONG MIRROR SCALE—5 inches long at top arc. Excellent readability. Black on white except A.C. markings which are red on white and ohms which are green on white.

WEIGHT—Approximately 3 pounds, complete with battery.

BATTERY—Self-contained. One 15V Mini-max Eveready No. 411 or equivalent, and one 1 1/2 V Eveready No. 935 or equivalent.

LEADS—50 inches long. Test prods with removable alligator clips at one end. Banana plugs for connecting to tester jacks at other end. Catalog No. 625-NA Stock No. (894802)



No. 625-NA



No. 666-HH

MODEL 666-HH

A precision-manufactured marvel of compactness that provides a complete miniature laboratory for voltage, resistance and direct current analyses.

Ranges

D.C. Volts	0-10-50-250-1000-5000	at 1,000 ohms/Volt
A.C. Volts	0-10-50-250-1000-5000	at 1,000 ohms/Volt
D.C. Milliamperes	0-10-100-500	at 250 Millivolts
Ohms	0-2,000-400,000	(12-2400 at center scale)

General Description

MOLDED, INSULATED CASE—Black Molded 3 1/8" x 5 7/8" x 2 9/16".

PANEL—Black Molded with engraved white markings.

CONNECTORS—Three banana jacks at the top of the panel reduce possibility of connecting leads falling over scale or controls.

INSTRUMENT—3" meter, integral with panel, adjusted to 400 microamperes and 250 millivolts.

SCALE—2 9/32" long at top arc. Black on white except A.C. markings which are red on white.

WEIGHT—1 1/2 pounds complete with battery.

BATTERY—Self-contained plug-in. One 1 1/2 volt Eveready No. 935 or equivalent.

LEADS—50 inches long. Test prods with removable alligator clips at one end. Banana plugs at the other end for connecting to tester jacks.

Catalog No. 666-HH Stock No. (894801)

MODEL 564 WESTON VOLT-OHMMETERS

Type 3C

Has a useful selection of voltage and resistance ranges.

A self-contained, 4½-volt battery provides the necessary potential for the ohmmeter ranges. Changes in battery potential are compensated for by short-circuiting the resistance pin jacks of any range and adjusting pointer to zero ohms by turning the battery adjustment knob.

Size, 4 33/64 x 3 45/64 x 2 9/16 inches. Voltage ranges; 3/30/300/600 d.c., all 1000 ohms per volt. Resistance ranges; 1000/10,000/100,000/ and 1,000,000 ohms, full scale.

Ranges are available from engraved pin jacks moulded internally with the panel. A toggle switch connects meter in circuit as a voltmeter or ohmmeter. Complete with pair of 4-foot test leads. Approximate weight, 1¼ pounds.

Type	Stock No.	Model
3C	(892087)	564
Leather Carrying Case		Stock No. (892086)



SIMPSON VOLT-OHM-MILLIAMETER Model 260



An all-purpose tester which combines ruggedness with sensitivity. All connections are short and direct, reducing short circuits. Pin jacks are recessed. Letters and figures are molded into the bakelite panel and filled with durable white for greater legibility.

The extremely low current consumption assures dependable voltage readings. DC current readings may be taken from 2 microamperes up to 10 amperes. Resistance readings can be made all the way from 1/5 ohm up to 20 megohms.

Ranges

20,000 Ohms per volt DC, 1000 Ohms per volt AC Volts, AC and DC: 2-5; 10; 50; 250; 1,000; 5,000. Output: 2-5; 10; 50; 250; 1,000. Milliamperes, DC: 10; 100; 500. Amperes, DC: 10. Ohms: 0-2000 (12 ohms center); 0-200,000 (1200 ohms center); 0-20 megohms (120,000 ohms center). Size: 5¼" x 7" x 3⅞". Shipping Wt. 5 lbs.

Model 260	Stock No. (894976)
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MODEL 689 WESTON OHMMETERS

Designed for the service man who relies upon resistance and continuity tests in checking circuits. Type 1E scale is calibrated with a double range and resistance readings are available from 0-5000 and 0-50000 ohms; Type 1F with ranges 10 and 1000 ohms.

A 1½-volt No. 2 unit-cell battery, mounted inside the case, makes it independent of an outside source of potential.

A magnetic shunt provides convenient adjustment to compensate for variation in battery voltage. This

adjustment may be made before each series of tests, thus assuring accurate resistance readings.

Complete with battery and a long pair of test leads.

Type	Stock No.
1E	(892084)
1F	(892085)



MODEL 4300 TELOHM

For testing and locating line, telephone and switchboard trouble, high resistance joints, shorts, grounds and opens; also open circuits on coils of all kinds, partially shorted coils, high resistance transmitters, cut-outs in cords, contacts, etc.

Equipped with Weston O-3 volt direct reading ohmmeter with 0-10,000 ohm scale and glass protector, 2 flashlight cells, switch, cords and test clips. Mounted in a solid walnut case, 1¾x3½x 6 inches.

Weight, 1¼ pounds.
Model 4300 Stock No. (892088)



SIMPSON OHMMETER Model 372

A complete self-contained instrument with batteries. Ohms adjuster compensates for variations in battery voltages. Wire wound and matched resistors are used throughout.

Ranges

0-500 (5 ohms center); 0-5000 (50 ohms center); 0-50,000 (500 ohms center); 0-500,000 (5,000 ohms center); 0-5 Megohms (50,000 ohms center); 0-50 Megohms (500,000 ohms center). Size 3" x 5⅞" x 2½". Shipping Wt. 3 lbs.

Model 372	Stock No. (894977)
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Revised 10-1-55

SIMPSON VOLT-OHMMETER

Midgetester Model No. 355

Practical shirt-pocket volt-ohmmeter, the Midgetester measures only 2 3/4" x 4 1/2" x 1". Has a sensitivity of 10,000 ohms per volt on both AC and DC. The core movement is self-shielded permitting use near steel or other magnetic metals or fields without adverse effect.

Accuracy of this instrument is 3% DC and 5% AC of full scale voltages. Is also within 3% of arc from absolute value of resistance being measured. Range is 0-1200 volts, AC or DC. DC resistances can be measured from 0-10 megohms.

Handy ohms zero-adjust thumb wheel. All contacts are recessed slightly below the face of the instrument. Automatic circuit and range selection by inserting leads into desired contacts. A set of probe leads is provided.

Weight: 7 ounces.



Catalog No.	Stock No.	Description
355	(895768)	Midgetester
6355	(895769)	Leather carrying case

MODEL AN DILLON DYNAMOMETERS



This dynamometer makes it possible to obtain correct tension on telephone leads and thus insure freedom from wind, sleet and snow failures.

When used with block and tackle, it registers in pounds the strain load placed on wire, messenger or guy strand during initial installation or in maintenance work. Prevents overstrain and the resultant breakdowns, and eliminates guesswork.

Withstands full shock recoil; and mechanism cannot be injured by overload. The main indicator hand is white, and the maximum indicator hand is red. Dial is protected by 1/4-inch shatterproof safety glass, properly sealed to prevent the entry of dust or dirt.

Accuracy of 2 per cent plus or minus.

Description	Stock No.
0 to 500 Pounds, 5-Pound Divisions	(893409)
0 to 1000 Pounds, 10-Pound Divisions	(893410)
0 to 2500 Pounds, 50-Pound Divisions	(893411)
0 to 3500 Pounds, 50-Pound Divisions	(893412)
0 to 5000 Pounds, 50-Pound Divisions	(893413)
0 to 7500 Pounds, 50-Pound Divisions	(893414)
0 to 10000 Pounds, 100-Pound Divisions	(893415)
0 to 15000 Pounds, 125-Pound Divisions	(893416)

L AND N WHEATSTONE FAULT LOCATION BRIDGE TEST SETS

No. 5430-A—Type U

A portable Wheatstone bridge especially adapted for locating faults in communication circuits.

Ratio dial has multiplying values of 1/1000, 1/100, 1/10, 1/9, 1/4, 1/1, 10/1 and 100/1 for resistance measurements and for Varley Loop tests; also settings of M1000, M100 and M10 for ratios in Murray Loop tests.

Rheostat has 4 decades, 10(1 + 10 + 100) + 9 x 1000 ohms + infinity. Limit of error in ratio resistors ± 0.05%; In rheostat arm: resistance change from zero settings of dials equals dial settings ± (0.1 per cent + 0.01 ohm). Includes pointer galvanometer of 1-megohm sensitivity, 4.5 volt battery and keys for galvanometer and battery. Hilborn Loop test can be made, using internal galvanometer.

Furnished in oak case, 8 7/8 x 7 3/8 x 5 1/2 inches, with metal protecting corners, removable lid and carrying strap. Weight, 8 pounds.



Cat. No.	Stock No.	Description
5430-A	(892097)	Type U
5431	(892098)	Leather Case

No. 5300—Type S

For ordinary resistance testing and for locating faults in communication circuits.

Ratio dial has multiplying values of 0.001, 0.01, 0.1, 1, 10, 100 and 1000 for resistance measurements and for Varley Loop tests; also settings for M1000, M100 and M10 for ratios in Murray Loop tests. Rheostat has 4 decades 9(1 + 10 + 100 + 1000) ohms. Limit of error in ratio resistors ± 0.05%; In rheostat arm: resistance change from zero settings of dials equals dial settings ± (0.1 per cent + 0.01 ohm). Includes pointer galvanometer of 1-megohm sensitivity, 4.5 volt battery and keys for galvanometer and battery.

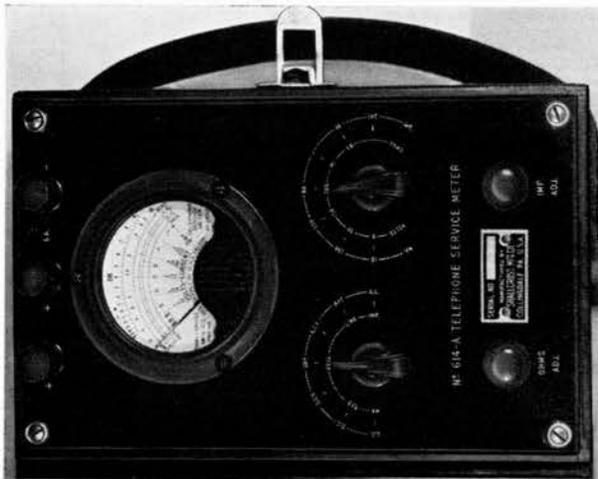
Furnished in oak case, 8 7/8 x 7 3/8 x 5 1/2 inches, with hinged lid and carrying strap.

Weight, 8 pounds.



Cat. No.	Stock No.	Description
5300	(892099)	Type S
5431	(892098)	Leather Case

STROMBERG-CARLSON



NO. 614-A SHALLCROSS TELEPHONE SERVICE METERS

Designed to provide facilities for the telephone man in making the wide range of electrical measurements that are encountered in the telephone field.

Particularly useful for tests of subscriber set output, dry cells, transmitter current, receiver resistance, capacity of condensers, ringer impedance, magneto, output, and magneto impedance; central office commercial supply voltage, ringing machine voltage, battery charging current, etc.

Ranges: Accuracy for D.C. $\pm 2\%$; for A.C. $\pm 5\%$

Voltage: D.C. 0-6-30-150-300 Volts

A.C. 0-6-30-150-300 Volts

Current: D.C. 0-15-150-300 Milliamps. 0-6 Amps

Resistance: D.C. 0-500-50,000 Ohms

Impedance: A.C. 25-3,000,000 Ohms

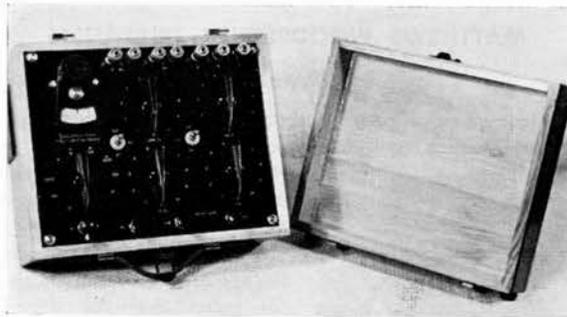
Inductance: A.C. 1-100-1,000-10,000 Hen.

Capacitance: A.C. 0.001-0.1-1-10 Mfd.

Power Level: A.C. -6, 0, +9 db.

Artificial Load 600 Ohms for 6-30 V, A.C.

Catalog No. 614-A Stock No. (894816)



SHALLCROSS CABLE FAULT LOCATION BRIDGE

A portable instrument having a variable ratio arm arranged for the Murray and Varley Loop tests for locating faults, grounds, and crosses.

Steps of multiplier switch for use as Wheatstone Bridge:

x0.001-x0.01-x0.1-x1-x10-x100-x1,000 Ohms

and for Murray test:

x1-x10-x100-x1,000 M

Rheostat arm: 11,110 ohms variable in steps of 1 ohm

Range: 0.1-11,110,000 Ohms

Provision made for using bridge in Varley & Murray tests

Catalog No. 629 Stock No. (894817)

NO. 695 SHALLCROSS CURRENT FLOW TEST SETS



Provides a convenient and rapid means for testing the flow of current through relays and other apparatus commonly found in telephone and telegraph equipment.

Range: Accuracy $\pm 2\%$ of full scale value

Current: D.C. 0-15-75-150 Milliamps

Voltage: D.C. 0-7.5-15-75 Volts

Variable resistors for setting of relay current

3 x 5,000 ohms continuously adjustable.

Catalog No. 695 Stock No. (892096)

NO. 692 SHALLCROSS TRANSMISSION TEST SETS



In this instrument are combined:

1. Tone Generator, 1,000 cycles, Part No. 691-A 1,000 cycles/second. Vacuum tube oscillator operating from 110-115-120 V, A.C. or D.C. Output variable from 0-18 db.
2. Transtester Part No. 690, Decibel Meter range -10, 0, +6 db, 600 ohms.
3. Attenuation pads, Part No. 355, variable from 0 to 35 db in 5 db steps.

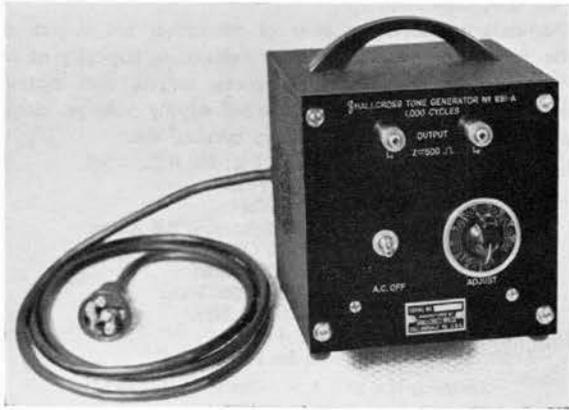
Catalog No. 692 Stock No. (892091)

Revised 10-1-55

SHALLCROSS TRANSMISSION TEST EQUIPMENT

Developed to provide a simple, economical and modern method of measuring transmission losses.

No. 691-A

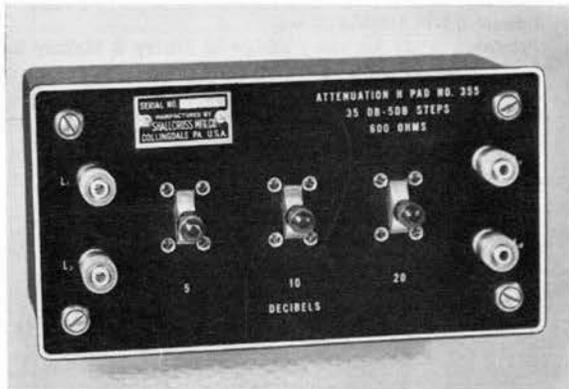


Has 1000 cycle generator. Total power, 18 db at 600 ohm impedance.

In metal case.

Catalog No. 691-A Stock No. (892092)

No. 355



Attenuation H pad. Total of 35 decibels, in 5 decibel steps, 600 ohms impedance. In metal case.

Catalog No. 355 Stock No. (892093)

No. 690



Decibel meter calibrated minus (-) 10 decibels, to plus (+) 6 decibels. Zero level, 1 milliwatt at 600 ohms impedance.

In oak carrying case.

Catalog No. 690 Stock No. (892094)

MATTHEWS WOODPECKER TELEFAULTS

Type L

This instrument will locate shorts of all kinds—damp spots, crosses, grounds, split pairs, etc. Compact, convenient, and simple to operate. Does not noise up other pairs, because of the inductive field created.



With the instrument connected, the exploring coil is moved along the cable until the point is reached where the woodpecker tapping tone cannot be heard in the earphone, indicating the exact location of fault.

The woodpecker tapping tone is very distinct and cannot be

confused with other inductive noises.

Operates on one dry cell. Maximum voltage, under 5 volts.

Description	Wt. Lb. Each
Type L Woodpecker Telefault, Complete.....	15
Extra Exploring Coil, Only.....	2
Extra Receiver Only, with Cord.....	2

Stock No. (892075)

STROMBERG-CARLSON

Meters



Volt meters, ohm meters, Wheatstone Bridges, current flow and transmission test sets for general use inside or outside the office supplement the more specialized test equipment shown in a previous section.

CONTENTS
SECTION V

METERS

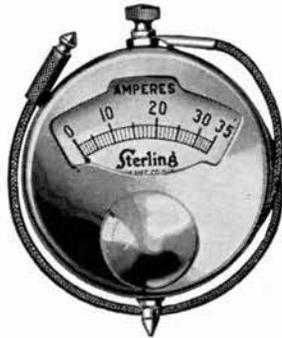
	Page
Pocket Meters	3v
Trouble Locating Meters	3v
Multi-Purpose Meters	4v
Wheatstone Bridges	6v
Dynamometers	6v
Current Flow Test Sets	7v
Telefault Test Set	8v
Transmission Test Sets	8v
Carrier Test Set	10v
Artificial Lines	10v
Tacholite	11v
Reference Generator	11v

STERLING POCKET METERS
Direct Current

Useful in all kinds of battery testing, automotive ignition work, servicing radios, gas engines, motor-boats, doorbells, telephones, and in low-voltage electrical work generally. Serve as polarity indicators.

Has calibrated scale, durable, clearly marked dial, and full nickel-finished case, 2 1/4 inches in diameter and 5/8-inch thick. Equipped with flexible cord and spur for making connections. Packed individually, 10 to a standard package. Shipping weight per standard package, 4 pounds.

NO. 24 AMMETERS



For testing No. 6 dry cells.
Scale is 0-35 amperes, 1 ampere divisions.
Stock No. (892100)

NO. 34 VOLTMETERS



For 6-volt batteries, dry or storage.
Scale is 0-10 volts, 1/5-volt divisions.
Stock No. (892101)

NO. 44 VOLTAMMETERS



For storage batteries and dry cells.
Scale is 0-35 amperes, 1-ampere divisions; 0-10 volt scale, 1/5-volt divisions.
Stock No. (892102)

STEWART DETECTO-METER
Model D-1



The linemen's companion—extremely handy—light weight. A pocket size volt ohmeter.

The Stewart Detecto-meter has a multitude of uses for rapidly determining line and cable troubles. It will locate poor joints, crosses, shorts and grounds.

The unit has a 0-10,000 ohms scale, powered by a self-contained No. 2 flashlight battery.

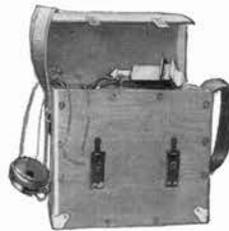
Resistance is measured by connecting the two clips across the unknown circuit or faulty line.

Furnished in either of two voltage ranges 0-1/5 volts or 0-60 volts. The case is of highly finished hard wood with bakelite ends and so constructed as to stand the hard service given it.

Comes complete with battery, two line leads and clips.

Cat. No.	Stock No.	Size	Weight
D-1-60	(894665)	1 3/4" x 3" x 6"	1 1/4 lbs.
D-1-1.5	(892069)	1 3/4" x 3" x 6"	

STEWART TEST SET Model H



The Stewart Test Set tells which way and how far the trouble is from the tester without opening the line or cutting the wire. The Detecto or pickup coil works as well with insulated or bare wire. Saves time in not having to cut wire or insulation.

The unit is so arranged that a light will indicate by its brilliance the approximate distance from fault to tester.

The Detecto coil coupled with the distinctive tone and clarity of signal of the Test Set will quickly determine the direction from the pickup coil, the fault is located.

The unit is also provided with a talking circuit which may be used on common or local battery systems; a valuable feature when two men are working together.

The unit is housed in an oak case with a leather top and carrying strap. Complete with self-contained generator, batteries, pickup coil, head phone and test cords.

Stock No.	Size	Weight
(892073)	9" x 9" x 5"	11 pounds

STEWART EXPLORING COIL
Amplifier, Model E



A pocket-sized amplifier to be used with pickup coil test sets in testing or locating buried pipes and cable. The Exploring Coil Amplifier increases the signal strength of the pickup coil, in Cable Testers or Tester and Locator sets; and makes it audible

where, without its amplification, it would be difficult or impossible to determine and locate a fault.

The voltage or signal strength gain of the Amplifier is approximately 50. Input and output impedances are matched for use with a 40-100 ohm pickup coil on the input and 40-100 ohm phone on the output.

Stock No.	Size	Weight
(895222)	5" x 3" x 2"	1 1/2 pounds

Revised 1-1-57

STEWART CABLE TESTER Model L-1



Trouble that might ordinarily take hours to find can be located with the Stewart Cable Tester in only a few minutes. It is simple to use, saves time, more accurately locates cable faults. It will locate shorts, crosses, grounds and wet spots to the inch.

This highly reliable instrument is the only Cable Tester having an Exploring Coil, which is neutral to the tone on the sheath and messenger. This "tone test" feature and the patented Fish Tail Exploring Coil with pickup neutral to the fields around the messenger and sheath which are balanced out, the tone heard in the head phone is only that of a pair which is at fault.

The Stewart Model L-1 Cable Tester uses two No. 6 dry cells and comes complete with Fish Tail pickup coil and head phones.

Stock No.	Size	Weight
(892070)	11 3/4" x 10 1/2" x 4"	10 pounds

STEWART TESTER AND LOCATOR Model A



The Stewart Tester & Locator has all of the outstanding features of the Model L-1 and in addition by the use of the special Depth Coil provided with the instrument, may be used to locate and tell the depth of buried pipe cable.

The unit will save its cost many times in locating and determining the depth of old cable and conduit. The exact location of which is not known and for which records have been lost. It will also eliminate the possibility of danger and injury from probing for a lost cable.

The Stewart Model A Tester & Locator uses four No. 6 dry cells and comes complete with Fish Tail and Depth Coils, head phone and cord, all self-contained.

Stock No.	Size	Weight
(892071)	11" x 12 1/2" x 7 1/4"	17 pounds

STEWART TRANSISTOR OSCILLATOR Model J

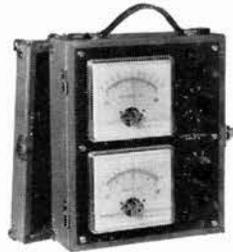


A self-contained, battery powered Transistor Oscillator with battery operating life of over 700 hours.

Output 1000 cycles into 600 ohm line at 0, -13 and -16 dbm. Low distortion, stable sine wave output.

Stock No.	Size	Weight
(897199)	2 1/4" x 3" x 4"	10.3 ounces

STEWART DUAL ELECTROLYSIS VOLTMETER Model G



Double meter.
Upper — 2.5-5-10-50-100-500 millivolts at 2000 ohms per volt.
Lower — .3-1-3-10-20-100-300 volts at 50,000 ohms per volt.
Clear plastic cases for easy reading. Permits simultaneous readings of fluctuating voltages and currents. Zero center avoids lead changing for

polarity reversals.

Eliminates need for potentiometer.

Stock No.	Size	Weight
(897200)	9" x 10" x 4 1/2"	6 pounds

VOLT-OHM-MIL-AMMETER MODEL 625-NA



The widest range tester of its type. A long mirror scale for improved reading accuracy; resistance ranges now to 40 Megohms; D.C. Voltage ranges with dual sensitivity (10,000 and 20,000 ohms per volt) provide for double the number of full-scale readings given by the average tester.

18 Voltage Ranges

Six D.C. Volts	0-1.25-5-25-125-500-2500 at 20,000 ohms/Volt
Six D.C. Volts	0-2.5-10-50-250-1000-5000 at 10,000 ohms/Volt
Six A.C. Volts	0-2.5-10-50-250-1000-5000 at 10,000 ohms/Volt

Six Current Ranges

D.C. Microamperes	0-50	at 250 millivolts
D.C. Milliamperes	0-1-10-100-1000	at 250 millivolts
D.C. Amperes	0-10	at 250 millivolts

Three Resistance Ranges

Ohms	0-2000-200,000	(12-1200 at center scale)
Megohms	0-40	(240,000 ohms at center scale)

Six Decibels Ranges

-30, +3.0, +15, +29, +43, +55, +69. (Reference level "O" DB at 1.73 V. on 500 ohm line.)

General Description

MOLDED, INSULATED CASE—Black molded 2 1/2" x 5 1/2" x 6" with removable black leather strap handle, white markings on panel.

CONNECTORS—Two banana jacks on front panel for V-O-MA, A, and COM., and one on left side of panel for 2500 and 5000 volts.

LONG-SCALE INSTRUMENT—Instrument is adjusted to 50 microamperes at 250 millivolts with separate internal housing for protection of mechanism during battery replacement.

LONG MIRROR SCALE—5 inches long at top arc. Excellent readability. Black on white except A.C. markings which are red on white and ohms which are green on white.

WEIGHT—Approximately 3 pounds, complete with battery.

BATTERY—Self-contained. One 15V Mini-max Eveready No. 411 or equivalent, and one 1 1/2V Eveready No. 935 or equivalent.

LEADS—50 inches long. Test prods with removable alligator clips at one end. Banana plugs for connecting to tester jacks at other end. Catalog No. 625-NA Stock No. (894802)

MODEL 666-HH



A precision-manufactured marvel of compactness that provides a complete miniature laboratory for voltage, resistance and direct current analyses.

Ranges

D.C. Volts	0-10-50-250-1000-5000	at 1,000 ohms/Volt
A.C. Volts	0-10-50-250-1000-5000	at 1,000 ohms/Volt
D.C. Milliamperes	0-10-100-500	at 250 Millivolts
Ohms	0-2,000-400,000	(12-2400 at center scale)

General Description

MOLDED, INSULATED CASE—Black Molded $3\frac{1}{8}$ " x $5\frac{7}{8}$ " x $2\frac{3}{16}$ ".
PANEL—Black Molded with engraved white markings.
CONNECTORS—Three banana jacks at the top of the panel reduce possibility of connecting leads falling over scale or controls.
INSTRUMENT—3" meter, integral with panel, adjusted to 400 microamperes and 250 millivolts.
SCALE— $2\frac{9}{32}$ " long at top arc. Black on white except A.C. markings which are red on white.
WEIGHT— $1\frac{1}{2}$ pounds complete with battery.
BATTERY—Self-contained plug-in. One $1\frac{1}{2}$ volt Eveready No. 935 or equivalent.
LEADS—50 inches long. Test prods with removable alligator clips at one end. Banana plugs at the other end for connecting to tester jacks.

Catalog No. 666-HH Stock No. (894801)

MODEL 564 WESTON VOLT-OHMMETERS

Type 3C



Has a useful selection of voltage and resistance ranges.

A self-contained $4\frac{1}{2}$ -volt battery provides the necessary potential for the ohmmeter ranges. Changes in battery potential are compensated for by short-circuiting the resistance pin jacks of any range and adjusting pointer to zero ohms by turning the battery adjustment knob.

Size, $4\frac{33}{64}$ x $3\frac{45}{64}$ x $2\frac{9}{16}$ inches. Voltage ranges; 3/30/300/600 d.c., all 1000 ohms per volt. Resistance ranges; 1000/10,000/100,000/ and 1,000,000 ohms, full scale.

Ranges are available from engraved pin jacks moulded internally with the panel. A toggle switch connects meter in circuit as a voltmeter or ohmmeter. Complete with pair of 4-foot test leads. Approximate weight, $1\frac{3}{4}$ pounds.

Type	Stock No.	Model
3C	(892087)	564
Leather Carrying Case		Stock No. (892086)

MODEL 689 WESTON OHMMETERS



Designed for the service man who relies upon resistance and continuity tests in checking circuits. Type 1E scale is calibrated with a double range and resistance readings are available from 0-5000 and 0-50000 ohms; Type 1F with ranges 10 and 1000 ohms.

A $1\frac{1}{2}$ -volt No. 2 unit-cell battery, mounted inside the case, makes it independent of an outside source of potential.

A magnetic shunt provides convenient adjustment to compensate for variation in battery voltage. This

adjustment may be made before each series of tests, thus assuring accurate resistance readings.

Complete with battery and a long pair of test leads.

Type	Stock No.
1E	(892084)
1F	(892085)

MODEL 4300 TELOHM



For testing and locating line, telephone and switchboard trouble, high resistance joints, shorts, grounds and opens; also open circuits on coils of all kinds, partially shorted coils, high resistance transmitters, cut-outs in cords, contacts, etc.

Equipped with Weston O-3 volt direct reading ohmmeter with 0-10,000 ohm scale and glass protector, 2 flashlight cells, switch, cords and test clips. Mounted in a solid walnut case, $1\frac{3}{4}$ x $3\frac{1}{2}$ x 6 inches.

Weight, $1\frac{1}{4}$ pounds.

Model 4300 Stock No. (892088)

SIMPSON VOLT-OHMMETER

Midgetester Model No. 355

Practical shirt-pocket volt-ohmmeter, the Midgetester measures only $2\frac{3}{4}$ " x $4\frac{1}{2}$ " x 1". Has a sensitivity of 10,000 ohms per volt on both AC and DC. The core movement is self-shielded permitting use near steel or other magnetic metals or fields without adverse effect.

Accuracy of this instrument is 3% DC and 5% AC of full scale voltages. Is also within 3% of arc from absolute value of resistance being measured. Range is 0-1200 volts, AC or DC. DC resistances can be measured from 0-10 megohms.

Handy ohms zero-adjust thumb wheel. All contacts are recessed slightly below the face of the instrument. Automatic circuit and range selection by inserting leads into desired contacts. A set of probe leads is provided.

Weight: 7 ounces.

Catalog No.	Stock No.	Description
355	(895768)	Midgetester
6355	(895769)	Leather carrying case



Revised 1-1-57

SIMPSON VOLT-OHM-MILLIAMETER Model 260



An all-purpose tester which combines ruggedness with sensitivity. All connections are short and direct, reducing short circuits. Pin jacks are recessed. Letters and figures are molded into the bakelite panel and filled with durable white for greater legibility.

The extremely low current consumption assures dependable voltage readings. DC current readings may be taken from 2 microamperes up to 10 amperes. Resistance readings can be made all the way from 1/5 ohm up to 20 megohms.

Ranges

20,000 Ohms per volt DC, 1000 Ohms per volt AC Volts, AC and DC: 2-5; 10; 50; 250; 1,000; 5,000. Output: 2-5; 10; 50; 250; 1,000. Milliamperes, DC: 10; 100; 500. Amperes, DC: 10. Ohms: 0-2000 (12 ohms center); 0-200,000 (1200 ohms center); 0-20 megohms (120,000 ohms center). Size: 5 1/4" x 7" x 3 1/8". Shipping Wt. 5 lbs.

Model 260 Stock No. (894976)

SIMPSON OHMMETER Model 372



Model 372

A complete self-contained instrument with batteries. Ohms adjuster compensates for variations in battery voltages. Wire wound and matched resistors are used throughout.

Ranges

0-500 (5 ohms center); 0-5000 (50 ohms center); 0-50,000 (500 ohms center); 0-500,000 (5,000 ohms center); 0-5 Megohms (50,000 ohms center); 0-50 Megohms (500,000 ohms center). Size 3" x 5 7/8" x 2 1/2". Shipping Wt. 3 lbs.

Stock No. (894977)

MODEL AN DILLON DYNAMOMETERS



This dynamometer makes it possible to obtain correct tension on telephone leads and thus insure freedom from wind, sleet and snow failures.

When used with block and tackle, it registers in pounds the strain load placed on wire, messenger or guy strand during initial installation or in maintenance work. Prevents overstrain and the resultant breakdowns, and eliminates guesswork.

Withstands full shock recoil; and mechanism cannot be injured by overload. The main indicator hand is white, and the maximum indicator hand is red. Dial is protected by 1/4-inch shatterproof safety glass, properly sealed to prevent the entry of dust or dirt.

Accuracy of 2 per cent plus or minus.

Description	Stock No.
0 to 500 Pounds, 5-Pound Divisions	(893409)
0 to 1000 Pounds, 10-Pound Divisions	(893410)
0 to 2500 Pounds, 50-Pound Divisions	(893411)
0 to 3500 Pounds, 50-Pound Divisions	(893412)
0 to 5000 Pounds, 50-Pound Divisions	(893413)
0 to 7500 Pounds, 50-Pound Divisions	(893414)
0 to 10000 Pounds, 100-Pound Divisions	(893415)
0 to 15000 Pounds, 125-Pound Divisions	(893416)

L AND N WHEATSTONE FAULT LOCATION BRIDGE TEST SETS No. 5430-A—Type U

A portable Wheatstone bridge especially adapted for locating faults in communication circuits.

Ratio dial has multiplying values of 1/1000, 1/100, 1/10, 1/9, 1/4, 1/1, 10/1 and 100/1 for resistance measurements and for Varley Loop tests; also settings of M1000, M100 and M10 for ratios in Murray Loop tests.



Rheostat has 4 decades, 10(1 + 10 + 100) + 9 x 1000 ohms + infinity. Limit of error in ratio resistors ± 0.05%; In rheostat arm: resistance change from zero settings of dials equals dial settings ± (0.1 per cent + 0.01 ohm). Includes pointer galvanometer of 1-megohm sensitivity, 4.5 volt battery and keys for galvanometer and battery. Hilborn Loop test can be made, using internal galvanometer.

Furnished in metal case, 9 7/16" x 7 1/2" x 6 3/8" high. With removal lid, bumpers, plastic handle and lock.

Weight 8 3/4 lbs.

Cat. No.	Stock No.	Description
5430-A	(892097)	Type U
5431	(892098)	Leather Case

No. 5300—Type S



For ordinary resistance testing and for locating faults in communication circuits.

Ratio dial has multiplying values of 0.001, 0.01, 0.1, 1, 10, 100 and 1000 for resistance measurements and for Varley Loop tests; also settings for M1000, M100 and M10 for ratios in Murray Loop tests. Rheostat has 4 decades $9(1 + 10 + 100 + 1000)$ ohms. Limit of error in ratio resistors $\pm 0.05\%$; In rheostat arm: resistance change from zero settings of dials equals dial settings \pm

(0.1 per cent + 0.01 ohm). Includes pointer galvanometer of 1-megohm sensitivity, 4.5 volt battery and keys for galvanometer and battery.

Furnished in oak case, $8\frac{7}{8} \times 7\frac{3}{8} \times 5\frac{1}{8}$ inches, with hinged lid and carrying strap.

Weight, 8 pounds.

Cat. No.	Stock No.	Description
5300	(892099)	Type S
5431	(892098)	Leather Case

NO. 695 SHALLCROSS CURRENT FLOW TEST SETS



Provides a convenient and rapid means for testing the flow of current through relays and other apparatus commonly found in telephone and telegraph equipment.

Range: Accuracy $\pm 2\%$ of full scale value

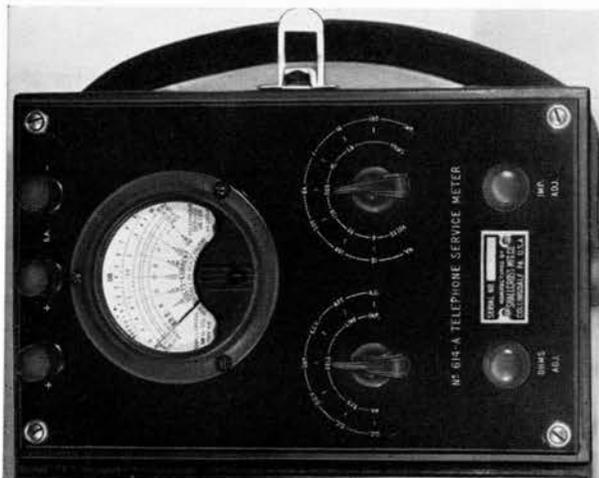
Current: D.C. 0-15-75-150 Milliamps

Voltage: D.C. 0-7.5-15-75 Volts

Variable resistors for setting of relay current
3 x 5,000 ohms continuously adjustable.

Catalog No. 695 Stock No. (892096)

NO. 614-A SHALLCROSS TELEPHONE SERVICE METERS



Designed to provide facilities for the telephone man in making the wide range of electrical measurements that are encountered in the telephone field.

Particularly useful for tests of subscriber set output, dry cells, transmitter current, receiver resistance, capacity of condensers, ringer impedance, magneto, output, and magneto impedance; central office commercial supply voltage, ringing machine voltage, battery charging current, etc.

Ranges: Accuracy for DC. $\pm 2\%$; for A.C. $\pm 5\%$

Voltage: D.C. 0-6-30-150-300 Volts

A.C. 0-6-30-150-300 Volts

Current: D.C. 0-15-150-300 Milliamps, 0-6 Amps

Resistance: D.C. 0-500-50,000 Ohms

Impedance: A.C. 25-3,000,000 Ohms

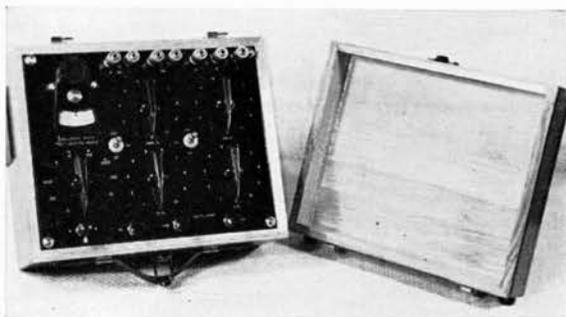
Inductance: A.C. 1-100-1,000-10,000 Hen.

Capacitance: A.C. 0.001-0.1-1-10 Mfd.

Power Level: A.C. -6, 0, +9 db.

Artificial Load 600 Ohms for 6-30 V, A.C.

Catalog No. 614-A Stock No. (894816)



SHALLCROSS CABLE FAULT LOCATION BRIDGE

A portable instrument having a variable ratio arm arranged for the Murray and Varley Loop tests for locating faults, grounds, and crosses.

Steps of multiplier switch for use as Wheatstone Bridge:

x0.001-x0.01-x0.1-x1-x10-x100-x1,000 Ohms

and for Murray test:

x1-x10-x100-x1,000 M

Rheostat arm: 11,110 ohms variable in steps of 1 ohm

Range: 0.1-11,110,000 Ohms

Provision made for using bridge in Varley & Murray tests

Catalog No. 629 Stock No. (894817)

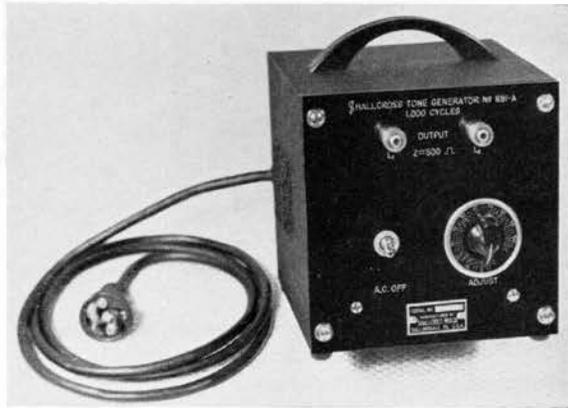
8v • METERS

Revised 1-1-57

SHALLCROSS TRANSMISSION TEST EQUIPMENT

Developed to provide a simple, economical and modern method of measuring transmission losses.

No. 691-A

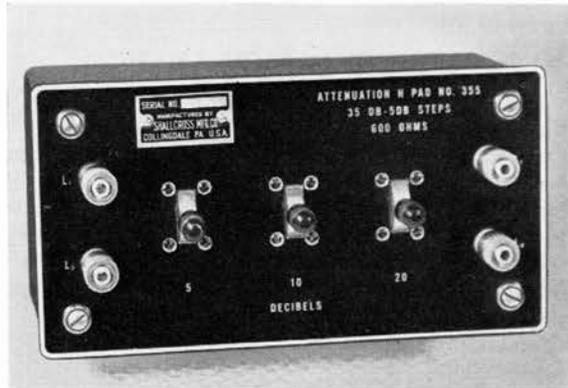


Has 1000 cycle generator. Total power, 18 db at 600 ohm impedance.

In metal case.

Catalog No. 691-A Stock No. (892092)

No. 355



Attenuation H pad. Total of 35 decibels, in 5 decibel steps, 600 ohms impedance. In metal case.

Catalog No. 355 Stock No. (892093)

No. 690



Decibel meter calibrated minus (-) 10 decibels, to plus (+) 6 decibels. Zero level, 1 milliwatt at 600 ohms impedance.

In oak carrying case.

Catalog No. 690 Stock No. (892094)

NO. 692 SHALLCROSS TRANSMISSION TEST SETS



In this instrument are combined:

1. Tone Generator, 1,000 cycles, Part No. 691-A 1,000 cycles/second. Vacuum tube oscillator operating from 110-115-120 V, A.C. or D.C. Output variable from 0-18 db.
2. Transtester Part No. 690, Decibel Meter range - 10, 0, +6 db, 600 ohms.
3. Attenuation pads, Part No. 355, variable from 0 to 35 db in 5 db steps.

Catalog No. 692 Stock No. (892091)

MATTHEWS WOODPECKER TELEFAULTS

Type L

This instrument will locate shorts of all kinds—damp spots, crosses, grounds, split pairs, etc. Compact, convenient, and simple to operate. Does not noise up other pairs, because of the inductive field created.



With the instrument connected, the exploring coil is moved along the cable until the point is reached where the woodpecker tapping tone cannot be heard in the earphone, indicating the exact location of fault.

The woodpecker tapping tone is very distinct and cannot be confused with other inductive noises.

Operates on one dry cell. Maximum voltage, under 5 volts.

Description	Wt. Lb. Each
Type L Woodpecker Telefault, Complete.....	15
Extra Exploring Coil, Only.....	2
Extra Receiver Only, with Cord.....	2

Stock No. (892075)

STROMBERG-CARLSON

NORTHEAST TRANSMISSION TEST SETS



MODEL O

Transmission Test Set operates at 1000 cps. It is provided with internal switching for either "Straightaway" or "Loop-insertion" loss measurements. A "Calibrate-0" switch position disconnects the oscillator from the terminals and permits adjustment of the oscillator level to give 0 dbm in 600 ohms. An additional "Cali-

brate" position checks the internal impedance of the oscillator. Blocking condensers permit use of the unit on circuits carrying DC voltages; provisions for "holding" subscriber dial circuits during measurements are incorporated. An additional meter range is incorporated to detect AC voltages, which might cause meter burnout, on lines to be tested. It is equipped with a Buffer-Amplifier to insure greater stability of the output impedance. This also results in an output level which can be adjusted continuously. Dimensions, 7" x 5" x 4"; weight 2½ lbs. A removable metal cover or a felt-lined leather carrying case can be provided at extra cost.

Model O Stock No. (897169)

MODEL 1A and MODEL 1B



This transistorized, self-powered, lightweight, multi-frequency Transmission Test Set is provided with internal switching permitting rapid measurement of "straightaway" and "loop insertion" losses and of levels on a "bridging" or "terminated" basis. It also contains the Volt-Ohm-Milliammeter scales commonly needed in telephone systems. Model 1A is for use on 600 ohm circuits, Model 1B for use on 900 ohm circuits.

Oscillator

Delivers low distortion output at 0 dbm at frequencies of 250-500-1000-1500-2000 and 2500 cps. A "Calibrate-0" switch position disconnects the oscillator from the terminals and permits level-adjustment to provide 0 dbm in 600 ohms (for Model 1A; into 900 ohms for Model 1B). An additional "Calibrate" position checks the oscillator output impedance. The output attenuator provides steps of 0-5-10-15 db between oscillator and output terminals. Self-contained blocking condensers permit use on circuits carrying DC voltages.

Meter

Measures power levels from -12 dbm to +18 dbm. It can be used in 600 ohm termination (900 ohm for Model 1B), or "bridging" at an input impedance in excess of 5000 ohms. As a Volt-Ohm-Milliammeter, the following ranges are provided: AC-1.1V-11V-110V; DC-110V-440V; Ohms: 0-1000 ohms and 0-40,000 ohms. For AC and level measurements, built-in blocking condensers permit measurements on circuits carrying DC voltages.

Mechanical

The unit is housed in a box 7" x 11" x 3" and weighs 5½ lbs. A removable hinged cover or a felt-lined leather carrying case can be provided at extra cost. Rated battery life is 400 hours.

Model 1A Stock No. (897170)
 Model 1B Stock No. (897171)

MODEL 3



The Model-3 Transmission Test Set provides transmission measurements over a wide range of audio frequencies and levels. It uses transistors in both the oscillator and the level-measuring amplifier circuits and is equipped with internal switching permitting rapid measurements of "straightaway" and "loop-in-

sertion" losses. In addition it also contains the volt-ohmmeter scales commonly needed in telephone systems.

Oscillator

A level-stabilized-oscillator buffer-amplifier circuit is used; it provides 24 frequencies ranging from 75 cps to 12 kc. The output level is continuously adjustable up to +5 dbm and the output impedance is 600 ohms. Send attenuators for 5, 10, 15, and 20 db are provided. In addition one "Calibrate" position disconnects the oscillator from the terminals and permits setting of the 0 dbm reference level in a self-contained 600 ohm resistor; an additional "Calibrate" position is used to normalize the amplifier gain prior to usage. The unit can be used on circuits carrying up to 50 volts DC; a center tap on the "Send" circuit is brought out to a terminal.

Meter

A precision meter can be connected to the "send" and "receive" terminals and to the amplifier output. In the "TR send" position the meter monitors the transmitted level when switches to "TR receive"; the oscillator is disconnected, and the meter reads received level. In the "RM amplifier" position, the amplifier is connected to the RM terminals and the meter to the RM output.

The meter also provides the following volt-ohm-milliammeter ranges: 0-1.10V AC, 0-11.0V AC, 0-110V AC, 0-440V AC/DC, 0-110V DC, 0-110mA DC, 0-1000 ohms, 0-4000 ohms.

Amplifier

A 2-stage transistor amplifier permits reading of low levels on either a 600 ohm or 10,000 ohm basis. The following amplifier ranges can be selected by the amplifier switch and are available at either 600 or 10,000 ohms impedance: +10, +5, 0, -5, -10, -15, -20, -25. In addition level ranges of -40 and -50 are available at an impedance of 600 ohms. A "Calibrate" position is provided to permit normalizing of the amplifier gain.

Size and Weight

Dimensions are 14" x 10" x 6½"; its weight is 15 lbs. A protective cover is provided. Normal battery life of the unit is 125 hours of operation.

Model-3 Stock No. (897172)

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other section will be found in the center of this catalog.

Revised 1-1-57

NORTHEAST TRANSMISSION TEST SETS

NORTHEAST CARRIER TEST SET

Model 1037-A and 1037-B



The Model 1037 Test Sets were developed to provide a high-precision instrument operating from self-contained batteries. The set contains a continuously variable carrier oscillator, an audio oscillator having 6 fixed frequencies in the audio band, and switches to connect either of these to the "send" jack through balanced H attenuators, adjustable to 40 db in 1 db steps. The same switches also provide audio-modulated and dial-interrupted carrier outputs through these attenuators. Model 1037-A covers 10 kc to 100 kc in 2 ranges; Model 1037-B provides overlapping ranges from 100 cps to 100 kc. Calibrate keys and level adjustments are provided for both oscillators.

The set also contains an amplifier-detector permitting direct reading of levels from +20 to -40 dbm. A switch permits reading of levels on a bridging or terminated basis as well as insertion of a demodulator; in the latter case the audio modulation of a modulated carrier is read on the meter. A high-pass filter to suppress power frequency components can be switched in ahead of the amplifier; an additional amplifier stage is used for feeding the earphone monitor jacks. Dimensions are 17" x 11" x 15". Weight approximately 40 lbs. Rated battery life is in excess of 100 hours.

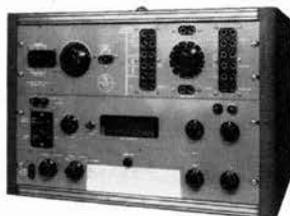
The set also contains an amplifier-detector permitting direct reading of levels from +20 to -40 dbm. A switch permits reading of levels on a bridging or terminated basis as well as insertion of a demodulator; in the latter case the audio modulation of a modulated carrier is read on the meter. A high-pass filter to suppress power frequency components can be switched in ahead of the amplifier; an additional amplifier stage is used for feeding the earphone monitor jacks. Dimensions are 17" x 11" x 15". Weight approximately 40 lbs. Rated battery life is in excess of 100 hours.

These items are made on special order.

Cat. No.	Stock No.
Model 1037-A	(897178)
Model 1037-B	(897178)

NORTHEAST MILLIWATT POWER METER

Model 1041-A



Model 1041-A provides precise measurement of the 1 milliwatt "reference" power level. It uses a special thermocouple which can be calibrated by self-contained circuits and a galvanometer referring it to the voltage of a Weston standard cell. Level variations of

.01 db can be readily observed. The input impedance is 75 ohms; the frequency range is from 0 cycles to well over 10 MC.

Model 1041-A is mounted on a standard 19" relay rack panel 7" high.

Model 1041-B Adapter

Model 1041-B contains an adapter to use the instrument at +10 dbm in a balanced 600 ohms circuit, as well as split-pads and protective attenuators for both 75 ohm and 600 ohm.

Model 1041-B is mounted on a 5 1/4" high panel.

These items are made on special order.

Cat. No.	Stock No.
Model 1041-A	(897176)
Model 1041-B	(897177)

NORTHEAST ARTIFICIAL LINES

Model 1060-A and Model 1060-B



These units can be switched and patched to simulate proposed transmission circuits, thus permitting immediate measurement of transmission for different conditions of loading, matching, amplification, etc. They were developed to reduce engineering time required for computing such circuits.

Both models contain 6 separate sections. A single rotary switch in each individual section adjusts the section to represent any of the following types of cable: AWG's-13-16-19-22-24-26. Input and output of all sections can be picked up and isolated from other sections by plugging into "terminating" jacks; "bridging" jacks are also provided. Model 1060-A has 6 sections of 3000' each. Each section contains 6 series-resistor and 2 parallel-condenser branches; the series branches contain inductance elements corresponding to the unloaded cable parameters. The individual values of these branches are varied according to the switch position. Model 1060-B has 4 sections of 1000' each containing 6 series-resistor and 2 parallel-condenser branches, and 2 sections of 500'; each containing one parallel-condenser and 4 series-resistor branches. These values are changed by a rotary switch according to the wire gauge selected.

The standard unit provides a choice of 6 cable gauges. Units simulating fewer or different gauges or units providing special combinations of 3000', 1000' or 500' sections can be provided on special order. Resistor tolerances are better than 5%; units using 1% precision resistors can be supplied.

The unit is mounted in a standard 19" relay rack panel; panel height is 5 1/4".

Model 1060-A	Stock No. (897174)
Model 1060-B	Stock No. (897175)

NORTHEAST BLEEPER

Model I

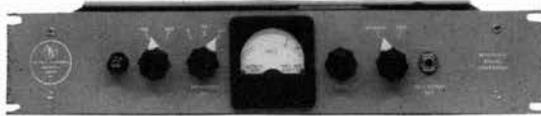


This transistorized unit transmits short bursts or "bleeps" of audio tone, markedly different from all tone-dialing and other signals used in telephone systems. To trace circuits or locate faults in cables, main frames, central office

equipment, etc., this unit is connected to the circuit. The circuit carrying the bleeper tone is approximately 1V peak-to-peak in a 600 ohm load.

Dimensions: 4 1/4" x 2 1/4" x 1 1/2". Weight, 1/2 lb. Battery life in excess of 200 hours.

Model I	Stock No. (897168)
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NORTHEAST TACHOLITE**Model 1**

The Model 1 Tacholite is a variable frequency STROBE-light used to study objects in motion such as telephone dials, stepping switches, rotating machinery, etc., and to obtain their speed by

"stopping" the strobe-light picture observed under the strobe-light. The unit covers a frequency range of 10 to 100/pulses per second. Other frequency ranges, for instance 8-20 cps for dial speed adjustment, or multirange combinations can be provided on special order. To obtain high-precision frequency measurements of objects in motion, pulses, of proper shape and amplitude to drive an electronic counter, are provided at a set of output terminals.

Model 1

Stock No. (897179)

NORTHEAST REFERENCE GENERATOR**Model 1**

This unit provides a source of standardized audio voltage having a 600 ohm internal impedance, adjusted to provide a level of 0-dbm in a 600 ohm load resistance. The unit is fully transistorized. A level stabilized master-oscillator buffer-amplifier circuit is used. Normally the output voltage appears on terminals at the rear; a switch is provided to disconnect the oscillator circuit from these terminals and transfer it to a built-in 600 ohm load resistance for calibration purposes. In this switch position the oscillator output is also available on a panel-jack. A level meter, permanently connected to the oscillator output, is used to normalize the output level.

The oscillator frequency can be switched to 300, 1000 and 3000 cps. Other or additional frequencies or units for 900 ohm circuits can be provided on special order. The output terminals can be connected to toll-board jacks; it can also be connected to a special number in a dial exchange. In the latter case it is possible to make transmission measurements from distant locations by dialing this number.

The unit derives its power directly from the 48 Volt station battery; its current drain is 160 MA. One, two or three of these units may be connected in series; the necessary dropping resistors are built-in and selected by connecting to the proper supply terminals. The unit is mounted in a standard 19" relay rack panel and is 3½" high.

Model 1

Stock No. (897173)

STROMBERG-CARLSON

Miscellaneous



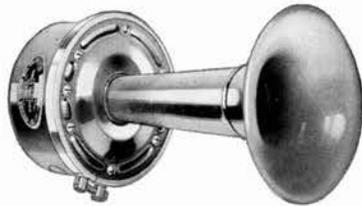
Signals, fire extinguishers, Calculagraphs, lamps, connectors, filing cabinets, tape, tacks, toggle bolts and screws—these and other necessities are grouped in this section.

CONTENTS
SECTION W

MISCELLANEOUS

	Page
Howlers	3w
Telecode Relays	4w
Bells and Buzzers	5w
Steel Buildings	5w
Dehumidifier	6w
Fire Extinguishers	6w
Calculagraphs and Counters	7w
Rubber Clothing	8w
Vacuum Cleaner	9w
Metal Cabinets and Lockers	9w
Mobile and Portable Power Units	12w
Chain Saw	13w
Portable Lamps	13w
Dry Batteries and Flashlights	14w
Retractable Telephone Cords	15w
Hands-Free Telephone and Gai-Phone	16w
Earphone and Headset Pads	17w
Insulating Tape	17w
Rare Gas Relays	19w
Clips, Grips, Clamps, Connectors	19w
Staples and Nails	24w
Nail and Screw Anchors	24w
Toggle Bolts and Nails	25w
Wood Screws	26w
Flexiduct	27w
Telecord Stapler	27w

**BENJAMIN FACTORY
NON-WEATHERPROOF HOWLERS**



Single Bell Projector



Double Bell Projector

Suitable for use in all locations where signals of weatherproof construction are not required.

The signal housing is of heavy gauge pressed steel, while projectors and grilles are durably constructed. Clamping band is of electroplated copper; rubber gasket seals the joint between the housing and horn assembly.

Operates on either series or multiple circuits. A.C. howler has no contacts; vibrations follow cycles of a.c. Pitch is double frequency of current used.

Housing has one 1/2-inch size conduit knockout at the back and one at the side and two sets of mounting holes, spaced on 2 1/4 and 3 1/2-inch centers. Double projector type is used with No. 8731 adapter plate.

Baked light gray enamel finish; red enamel finish, when specified.

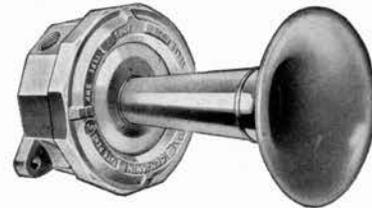
Volts	With 7 1/2-inch Bell Type Projector		With Double Bell Type Projector	
	Cat No.	Stock No.	Cat. No.	Stock No.
†12	8755—12V A.C.	(892123)	8795—12V A.C.	(892131)
†24	8755—24V A.C.	(892124)	8795—24V A.C.	(892132)
110	8755—110V A.C.	(892125)	8795—110V A.C.	(892133)
220	8755—220V A.C.	(892126)	8795—220V A.C.	(892134)

Projector-Less Type Grille Front			
†12	8741—12V A.C.	(892135)	
†24	8741—24V A.C.	(892136)	
110	8741—110V A.C.	(892137)	
220	8741—220V A.C.	(892138)	

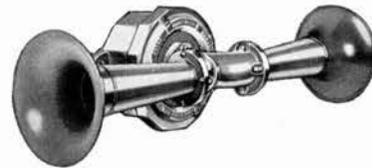
† Unsuitable for use with low voltage signals. Signaling transformers are required.

25-cycle, in all voltages, supplied when specified at 60-cycle prices.

**BENJAMIN HEAVY-DUTY
WEATHERPROOF HOWLERS**



Single Bell Weatherproof Projector



Double Bell Weatherproof Projector

Ideal for effective calling or warning in industrial and commercial locations. Can be used on circuits containing practically any type of signals without affecting operation.

The threaded ring separable construction and plug-in type of wiring connection, assures quick, simple installation. Operates on either series or multiple circuits.

Supplied with a 7 1/2-inch seamless bell type projector, a 14-inch seamed conical projector, or a double bell type projector, 19 1/2 inches over-all. Identical outlet box housings and union attaching rings are supplied on all signals, assuring complete interchangeability of projectors.

The outlet box housing is a heavy metal casting to which the projector assembly is attached by the cast aluminum threaded union ring. The joint between these two assemblies is sealed by a rubber gasket.

A.C. howler has no contact; vibrations follow cycles of a.c.; pitch is double frequency of current used. Operates on 60 cycles, 12, 24, 110 or 220 volts; 25 cycles can be furnished when specified.

Baked light gray enamel finish; red enamel finish when specified.

When ordering, specify voltage and frequency.

Volts	With 7 1/2-inch Bell Type Projector		With Double Bell Type Projector	
	Cat No.	Stock No.	Cat. No.	Stock No.
*12	8546—12V	(892111)	8590—12V	(892119)
*24	8546—24V	(892112)	8590—24V	(892120)
110	8546—110V	(892113)	8590—110V	(892121)
220	8546—220V	(892114)	8590—220V	(892122)

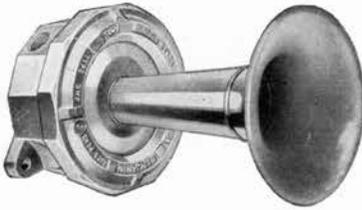
* The low capacity of bell ringing transformers makes howler unsuitable for use with low voltage signals. Signaling transformers are required.

25-cycle, in all voltages, supplied when specified at 60-cycle prices.

Revised 11-15-55

BENJAMIN WEATHERPROOF FIRE ALARM HOWLERS

Listed by Underwriters' Laboratories



For use on fire alarm systems operating under stringent regulations.

The threaded ring separable construction, and plug-in type of wiring connection, assures quick, simple

installation. A.C. howler has no contact; vibrations follow cycles of a.c. Pitch is double frequency of current used. The diaphragm is sealed by a gasket; diameter, 4 3/8 inches.

Operates on 60 cycles, 110 or 220 volts; 25 cycles can be furnished, when specified.

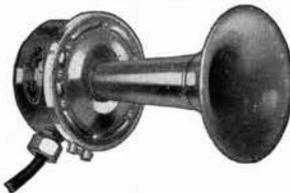
The horn assembly consists of a 7 1/2-inch seamless bell type steel projector permanently attached to a pressed steel cover on which is mounted the horn mechanism. Baked red enamel finish.

When ordering, specify voltage and frequency.

Volts	Cat. No.	Stock No.	Ship Wt. Lb.
110	8566—110V A.C.	(892143)	6 3/4
220	8566—220V A.C.	(892144)	6 3/4

60-cycle standard. 25-cycle in all voltages, supplied at 60-cycle prices.

BENJAMIN MINE TYPE HOWLERS Listed by Underwriters' Laboratories



This sturdily constructed howler is effectively sealed against dust and moisture.

Operates on either series or multiple circuits. A.C. howler has no contacts; vibrations follow cycles of a.c. Pitch is double frequency of current used. Diaphragm is 4 3/8 inches in diameter.

Separable type construction, with the plug-in type of wiring connection. Sealed against moisture with 8-inch insulated wire leads which enter the housing through a water tight bushing.

The detachable horn assembly consists of a 7 1/2-inch, drawn steel bell projector welded to a gasketed steel cover on which is mounted the signal mechanism. This assembly is joined to the housing by a metal clamping band.

Baked battleship gray enamel finish.

When ordering, specify voltage and frequency.

Volts	Cat. No.	Stock No.	Ship Wt. Lb.
*12	8652—12V A.C.	(892139)	4
*24	8652—24V A.C.	(892140)	4
110	8652—110V A.C.	(892141)	4
220	8652—220V A.C.	(892142)	4

*Require signal transformers, as bell ringing type does not have sufficient capacity.

60-cycle standard. 25-cycle in all voltages supplied at 60-cycle prices.

BENJAMIN TELECODE RELAYS

Listed by Underwriters' Laboratories

For telephone ringing extension and closed circuit alarm systems in factories, mines, quarries, foundries, machine shops and similar places where great volume of noise makes it difficult to hear ordinary telephone bell.

Supplied with contacts arranged for open circuits, contacts open until coil is energized; with contacts arranged for closed circuits, contacts closed until the relay is actuated by current flowing through the coils; and with locking armatures, special winding on coils locks the contacts when the relay is operated, giving continuous operation to signals until signal circuit is broken by a release switch. Contacts are of tungsten steel; coils are form wound with moisture-proof coverings.

Rated .8 ampere at 110 volts, sufficient to operate 5 vibrating type howlers. Standard coil windings are 1000 ohms for operation on 90 volts, 18 to 30 cycles.

Light gray enamel finish.

When ordering, specify resistance of telephone bell ringer coils, or voltage and frequency of ringing circuit.

Relays with condensers should be specified for use with common battery telephone lines.

For Panel Mounting

Less Condenser

For direct panel mounting; also used as the basis of all combinations listed below.

Has a bakelite base, 4 1/4 inches in diameter, with 2 mounting screw holes spaced on 3 1/2-inch centers.



Cat. No.	Stock No.	Description	Ship. Wt. Lb.
8313-P	(892145)	Open Circuit	2 1/2
8313-C	(892146)	Closed Circuit	2 1/2
8313-L	(892147)	Locking Armature	2 1/2

For special resistance windings add \$.65.

With Explosion Proof Box

The box has a cast iron base, threaded to take a cast red brass cover. The joint between the cover and base of the box is close fitting deep flanged and of sufficient depth to prevent the escape of flames to the surrounding atmosphere in the event of internal explosion.

Base has 2 mounting lugs and 2 hubs equipped with conduit stops.

The main section is 5 1/2 inches in diameter and tapped 1/2-inch straight through standard; tapped 3/4-inch, when specified.



Less Condenser

Cat. No.	Stock No.	Description	Ship. Wt. Lb.
8319-P	(892153)	Open Circuit	10 1/2
8319-C	(892154)	Closed Circuit	10 1/2
8319-L	(892155)	Locking Armature	10 1/2

*With Condenser

8320-P	(892156)	Open Circuit	11 1/4
8320-L	(892157)	Locking Armature	11 1/4

For special resistance windings add \$.65 per Relay.

*Condenser rated 2 mf.

STROMBERG-CARLSON

BENJAMIN TELECODE RELAYS (Cont.)

With Pressed Steel Box

For general use indoors.

The box is approved steel construction with a hinged cover. 6 x 6 x 4 inches in size. With 1/2-inch knockouts on all 4 sides.

Less Condenser

Cat. No.	Stock No.	Description	Ship. Wt. Lb.
8315-P	(892148)	Open Circuit	5 1/4
8315-C	(892149)	Closed Circuit	5 1/4
8315-L	(892150)	Locking Armature	5 1/4

***With Condenser**

8316-P	(892151)	Open Circuit	6
8316-L	(892152)	Locking Armature	6

Special resistance windings on special order.

*Condenser rated 1 mf.

With Water Tight Box

Same type as the explosion proof box, but has cast aluminum cover with a rubber gasket sealing the deep threaded joint between the base and cover.

Less Condenser

Cat. No.	Stock No.	Description	Ship. Wt. Lb.
8322-P	(892158)	Open Circuit	7 1/2
8322-C	(892159)	Closed Circuit	7 1/2
8322-L	(892160)	Locking Armature	7 1/2

***With Condenser**

8323-P	(892161)	Open Circuit	8 1/4
8323-L	(892162)	Locking Armature	8 1/4

Special resistance windings on special order.

*Condenser rated 1 mf.

**FARADAY MARLO BELLS AND BUZZERS
DOUBLE MAGNET, ADJUSTABLE**



Excellent small signals to do big jobs. High quality at moderate cost. Has pivoted armature and double lock spring tension adjustment. Mechanism fully insulated from frame. Built for hard service. Black case and gong. Operate on 6-8 volt

A.C. 60 cycle or 3-6 volt D.C.

Special coil voltages and resistances can be furnished.

Catalog No.	Stock No.	Type	Standard Number	Package Ship. Wt.
571	(894806)	2 1/2" Bell	10	6 3/4 lbs.
572	(894807)	3" Bell	10	7 3/4 lbs.
573	(894808)	4" Bell	10	9 3/4 lbs.
570	(894809)	Buzzer	10	5 lbs.

LOUD RINGING BELLS



A rigidly made bell, designed for outdoor and indoor service. Stamped steel case, heavily enameled; and 6-inch gongs are pressed steel, heavily galvanized.

Ringer coils are treated with weatherproof insulating varnish.

In ordering specify resistance required. Standard

is less condenser. For use on common battery lines condenser should be specified.

Gongs of 6" pressed steel.

Illustrated with cover removed.

Cat. No.	Stock No.	Description
53-A	(896071)	1000 ohms less condenser
53-C	(896072)	1600 ohms less condenser
53-F	(896073)	2500 ohms less condenser
53-A	(896074)	1000 ohms with condenser
53-C	(896075)	1600 ohms with condenser
53-F	(896076)	2500 ohms with condenser

**6" LOUD RINGING BELLS
Tuned Frequencies**



These bells are available in 1000, 1600, and 2500 ohm impedances. These are tuned to harmonic, synchromonic and decimonic frequencies which covers the range of 16, 16 2/3, 25, 30, 33 1/3, 40, 42, 50, 54, 60, 66 and 66 2/3 cycles. The heavy duty ringer movement provides an exceptionally loud, vibrant ring on the 6-inch, deep skirted, specially tempered gongs. When ordering, specify frequencies and impedances desired.

Catalog No. 198

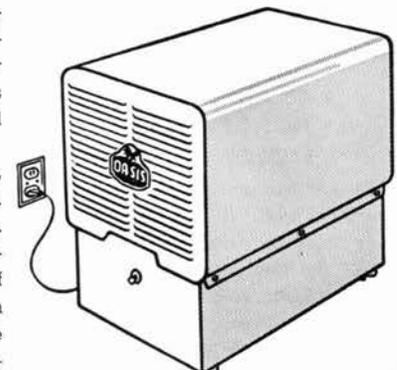
Stock No. (897326)

OASIS DEHUMIDIFIER

Oasis Air Dryer provides safe, sure protection from costly dampness. Keeps moisture under control in equipment rooms.

Size is 13" wide, 16" high and 19" long. Its weight is 55 lbs. This air dryer will remove three gallons of water from air in twenty-four hours. Size of average space serviced is 10,000 cubic ft.

Catalog No. J-20-B



Stock No. (895161)

Revised 1-1-57

MINNEAPOLIS-HONEYWELL H-44A DEHUMIDIFIER CONTROL



This dehumidifier control is specially designed for automatic operation of portable dehumidifiers. It eliminates the inconvenience and guesswork of manual dehumidifier operation. The combination receptacle-plug of the H-44A inserts in any standard 115 volt outlet and receives the dehumidifier plug. Finish: Silver

bronze. Differential: Non-adjustable, 5% relative humidity at midscale. Electrical rating: 2.6 amperes full load at 115 volts A.C.

Cat. No.	Stock No.	Range	Dimensions	Weight
H-44A	(897237)	20 to 80% R.H.	4 7/8" H x 2 1/2" w x 1 1/2" d.	1.5 lbs.

ARMCO STEEL BUILDINGS



Ideal for unattended and small exchanges, Armco steel buildings are economical, safe and long lasting. These buildings are designed on the basis of a 16-inch modular unit that affords a wide range of sizes.

Two types of buildings are offered — shed roofed and gable roofed buildings. Standard non-ventilated, horizontal-pivoted or commercial projected type windows are supplied as desired. Single swing, double swing or sliding doors can be placed at almost any location.

Additional accessories such as foundations, steps, rails are to be supplied by the purchaser.

To order these buildings, contact your nearest Stromberg-Carlson representative.

FIRE EXTINGUISHERS NO. C11P 1-PINT STORED PRESSURE

Kills gasoline, oil, grease fires. Safe on electrical fires. Will not damage furnishings. Only two basic pieces — top and shell. The shell is metal and the top is sturdy plastic with brass valve assembly and nozzle molded in. Push button is protected by metal clip to prevent accidental operation. Comes filled, complete with attractive wall bracket.

Catalog No. C11P Stock No. (895961)



PYRENE C-O-TWO PRESSURIZED DRY CHEMICAL TYPE



Now available in either 5 or 10 pound size. To operate simply pull out locking pin and squeeze. The discharge nozzle has a special dry chemical diffuser built into the outlet which renders maximum range and highly efficient fire extinguishing application of dry chemical.

Cat. No.
PDC-5P
PDC-10P

Stock No.
(897272)
(897273)

Size
5 lb.
10 lb.

PYRENE FIRE EXTINGUISHERS

Safe for use on electrical fires of all kinds as the liquid is non-conductive and will not injure electrical equipment.

The contents will not freeze at 50° below zero. Needs no recharging until used.

The 1 and 1 1/2-quart sizes are labeled by the Underwriters' Laboratories.

Made of brass and equipped with bracket.



NO. C-21

Capacity, 1 quart.

Packed 6 in a carton.

Shipping weight per carton, 45 pounds.

Catalog No. C-21 Stock No. (893509)

PYRENE FIRE EXTINGUISHER LIQUID



Anti-freezing, non-corroding, and non-conducting.

Cat. No.	Stock No.	Size Can	No. in Carton	Ship. Wt. Lb.
CR2	(893512)	1-Qt.	20	77 1/2

STOCK FORM TOLL TICKETS

There are many forms which can be supplied upon request if sufficient quantities are ordered.

Among these are:

"Out" Tickets, "In" Tickets, "Sent" Tickets, "Through" Tickets and also Subscribers Bills, Toll Bills, Rental Receipts, Daily Work Report Blanks, Stock Record Blanks, Voucher Blanks, Pay Roll Blanks, Voucher Checks, Orders on Treasurer, Letterheads and Envelopes, Monthly Check Report Blanks, Bank Checks, Subscribers' Ledgers, General Ledgers, Cash Journals, Voucher Records, Lease and Rental Records, Cash Books, Toll Journals.



NEOPRENE LATEX CLOTHING

Used by public utility and industrial workers for any job requiring protection against water, acid, grease or paint. Unusually light in weight (approximately half the weight of the old-style rubber garments). No seams to open, as all garments are first sewn and then hand brushed inside and out with Neoprene. These garments will not become tacky in warm climates nor extremely stiff in cold temperatures. All patterns are cut extra full to allow complete freedom for the wearer.

Marked Sizes:	00	0	1	2	3
Chest for Jackets:	46"-48"	44"	42"	38"-40"	36"
Waist for Pants:	46"-48"	44"	42"	38"-40"	36"

Cat. No.	Stock No.	Description
534-L	(894865)	Neoprene Linemen's Jacket
530-L	(894866)	Neoprene Linemen's Pants
661	(894867)	Buna Rubber Linemen's Hat

**G-E HANDY ELECTRIC CLEANER AND TOOLS
MODEL NO. 150-1 HP**



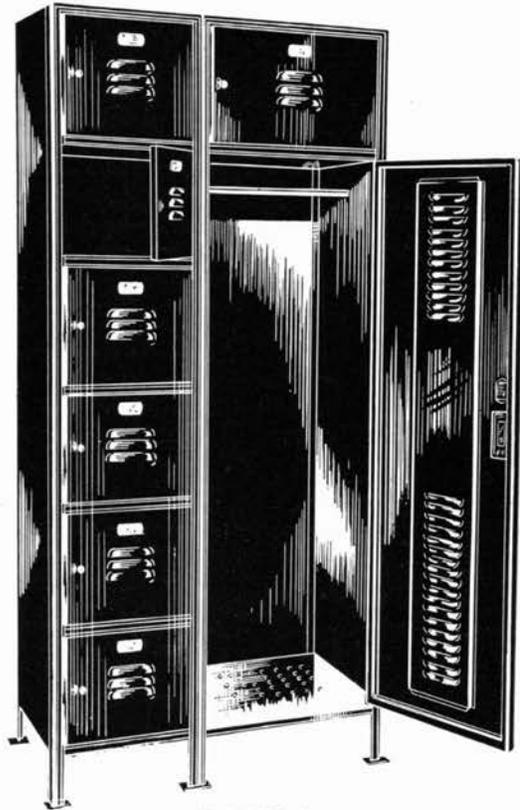
G-E Telephone Switchboard Cleaners are specially designed "nonconductors," and are used by telephone and radio station engineers for cleaning switchboards and other difficult-to-clean electric equipment. Includes extension hose, shoulder strap, fiber shield, and various brushes.

Heavy-duty 1-hp blower. Universal-type, ball bearing motor, AC/DC. Maximum vacuum 40/5" (water gage). Volume, 220 CFH. Weight, 16 lb.

Catalog No. P-150

Stock No. (895690)

**LYON METAL TELEPHONE
EQUIPMENT CABINETS**



No. 5401 Locker

No. 5401 7-Compartment Locker

This all steel ventilated locker is made of heavy gauge metal, arc welded for extra sturdiness. It accommodates the personal effects and wraps of seven persons in a minimum of floor space. Small compartments for hand bags and small personal packages each have an individual flat key lock. The key for each separate compartment also fits the lock on the large coat locker but no other compartment in the section, thus assuring privacy with a minimum of effort. Number plates are provided for the seven individual compartments (specify numbering on order).

The large compartment takes seven full-length overcoats; the floor has small perforated vents, and with the double set of louvres on the door permits circulation of air for drying out wet coats. This compartment has a built-in coat hanger rod rather than hooks. Doors have three-point locking, with recessed hinge pins which cannot be forced out.

Overall Size: 36" wide, 20" deep, 78" high.

Finished in Lyon Green baked-on enamel.

Shipped set up as illustrated.

Catalog No. 5401 7-Compartment Locker Stock No. (894992)

There are many other Lyon Steel Cabinets and Adjustable Shelves which have application in telephone offices. Let your Stromberg-Carlson representative advise with you on a suitable installation for your particular needs.

Revised 11-15-55

LYON METAL TELEPHONE EQUIPMENT CABINETS (Contd.)

WIRE CHIEF CABINETS

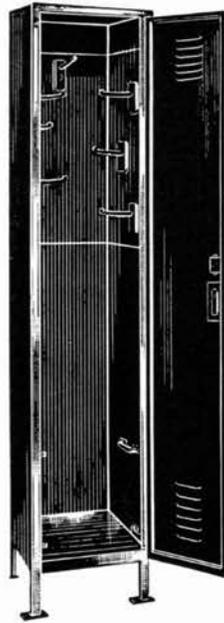
Wire Chief's Cabinets are made of heavy gauge metal with corners rounded off; the frame is arc welded to insure rigidity and sturdiness. Flat extension under feet permits bolting down if desired. Feet brackets are adjustable in height to offset any unevenness of floor. Shelves are removable, and may be adjusted on 1½" centers with simple studs and clips. No tools required for changing shelf heights. Dimensions: 15" wide, 15" deep, and 78" high over-all. Height includes 6" legs. Recessed handles are fitted with number plates (specify numbering on order). Built-in flat key lock with two keys. Finished in Lyon Green baked-on enamel.

Cord Cabinet No. EX1279

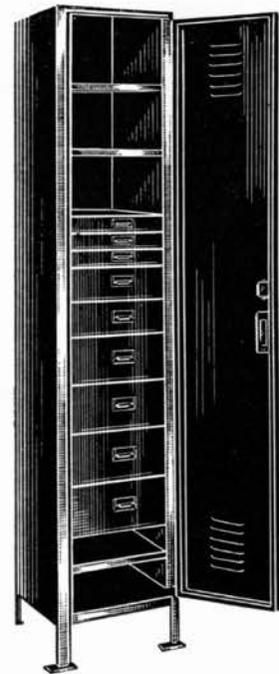
A sturdy ventilated cabinet with full-length door which has three-point locking. Hinges have a recessed pin which cannot be forced out. Designed especially for cord storage, it has also proved useful for a variety of storage needs. Seven cord hooks 6" long—three on each side and one at the back will accommodate several cords on each hook. Two clips on each side to hold wedge blocks. Cabinet shipped all set up as shown.

Catalog No. EX1279

Stock No. (894988)



No. EX1279
Cord Cabinet



No. EX1278
Material Cabinet

Material Cabinet No. EX1278

Five shelf openings—one 9" high—two 8" high—two 4" high. Shelf heights may be changed easily without use of tools. Nine drawers, all 11-7/16" wide and 12¾" deep, as follows:

- one 1-5/32" high, 15 Compts. 3-3/4" x 2-33/64"
- two 1-5/32" high, 9 Compts. 3-3/4" x 4-7/32"
- two 3-5/32" high, 9 Compts. 3-3/4" x 4-7/32"
- two 5-5/32" high, 9 Compts. 3-3/4" x 4-7/32"
- two 5-5/32" high, 4 Compts. 6-21/64" x 5-41/64"

Catalog No. EX1278

Stock No. (894987)

Material Cabinet No. EX1615-D

Has 48 shelf boxes 5½" x 17½" x 4⅞". Each box has three adjustable dividers. Each shelf containing boxes is equipped with two box guides.

All shelves are adjustable. Two bottom shelves are equipped with 3" high bin fronts. Each section has closed base to fill space between bottom shelf and floor.

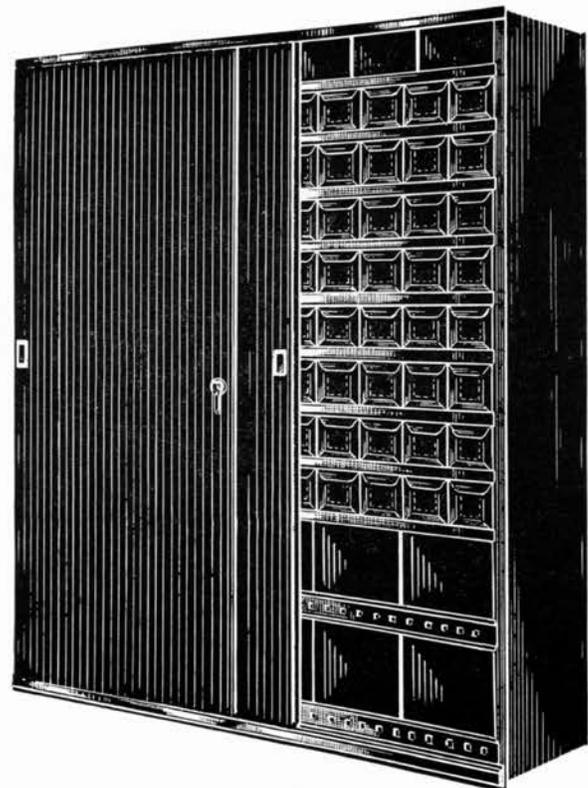
Over-all dimensions: 36" x 18" x 84". Finished in green baked-on enamel. Shipped knocked down.

Illustration shows two No. EX1615-D units equipped with sliding doors. Sliding doors are extra and can only be used on two adjacent sections. These doors roll smoothly on ball bearing rollers at the top and are guided by channels at the bottom.

NOTE: Each cabinet includes only one Rack End. One closed Rack end must be ordered to end each cabinet whether it consists of one, two, three or more sections.

Catalog No. EX1615-D

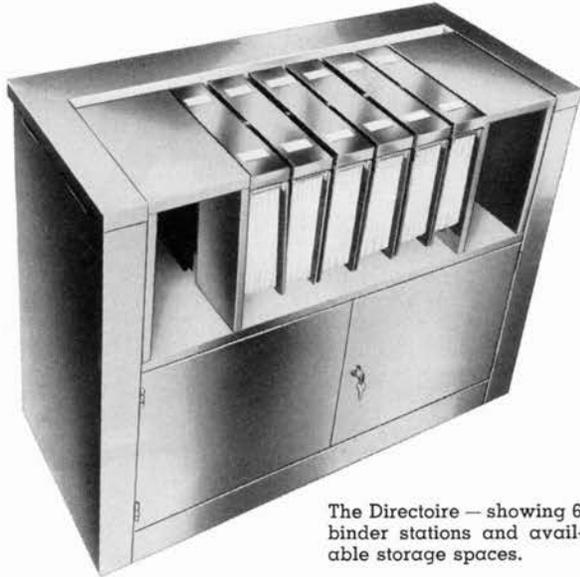
Stock No. (894989)



No. EX1615-D
Material Cabinet

STROMBERG-CARLSON

STEELMASTER FILING CABINETS



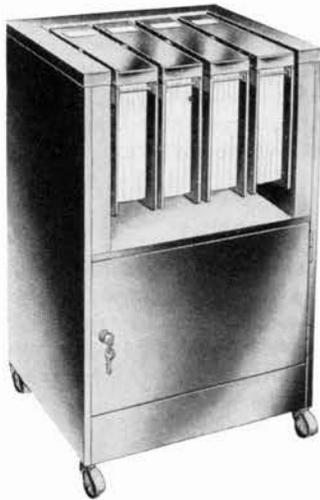
The Directoire — showing 6 binder stations and available storage spaces.

Available in two models — the "Directoire" and the "Mobiler Directoire," these cabinets assist in giving better telephone procedures — faster call service — faster fact checking service. Records and figures are at finger-tip control. Standard colors are gray and green.

The "Directoire" is a highly engineered, top working unit. The housing is made of best grade furniture steel. Its binders are made of non-rust, stainless steel, mat finish and heavy lifetime pressboard hinged covers that lay flat when in working position. The lower portion of the cabinet features a large storage space with an adjustable shelf and double doors. There are two open storage bins — one on each side of the binders.

The "Mobiler Directoire" is similar in appearance to the "Directoire" with the exception of size and mobility. This cabinet is smaller and is mounted on silent speed casters to make it easy to move from one place to another.

Three styles of "Directoire" binders are available. These styles are mentioned below.



The Mobiler Directoire — showing 4 binder stations and storage compartment in the bottom.



The "Directoire" completes a perfect Telephone Office as a handy tool for directory or catalog reference file. Is also ideal for use in inventory, parts control and fast fact finding systems.

Ordering Information

Cat. No.	Stock No.	Description
*JD4	(895975)	Mobiler Directoire
D6	(895976)	Directoire

*The JD4 is normally furnished with a storage cabinet in the lower portion. However there is available at extra cost a letter file drawer which would replace the storage room.



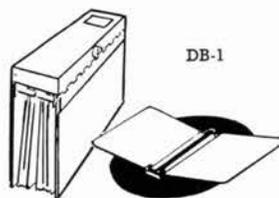
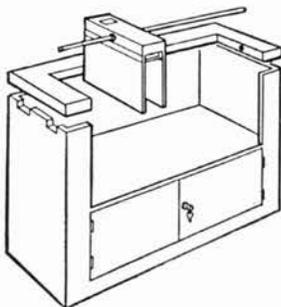
DIRECTOIRE BINDER ARRANGEMENTS

With three types of binder sections available, it is possible to vary arrangements of these sections. Three DB-2's or Three DB-3's are equivalent of two DB-1's.

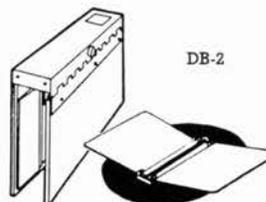
DB-1—Standard binder for all usages.

DB-2—Special binder section for individual catalogs and records.

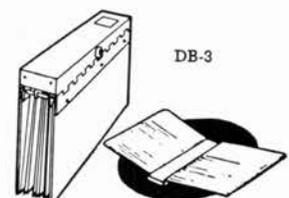
DB-3—Special fast fact binder equipped with 50 visible pockets.



DB-1



DB-2



DB-3

Revised 1-1-57

HOMELITE CARRYABLE GENERATORS

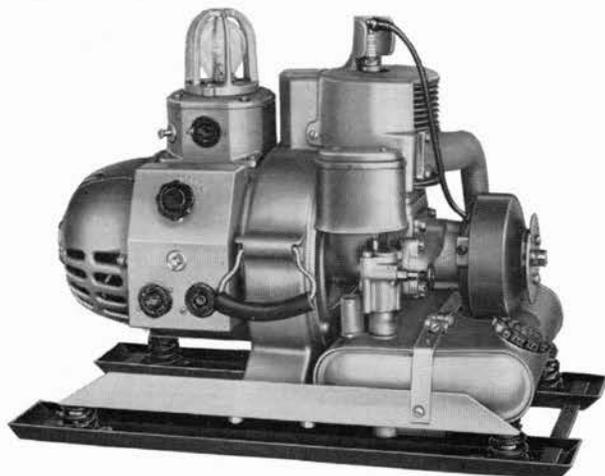
Homelite Carryable Generators offer ideal standby or portable means of supplying power. These AC generators are complete self-excited power plants. Carryable generators are extremely light in weight which allows movement of such a unit to any place where power is needed.

Gasoline driven engines available in three sizes, furnishing the following power: (1) 1500 watts at 115 volts AC, (2) 2500 watts at 115 volts AC, and (3) 5000 watts at either 115 or 230 volts AC.

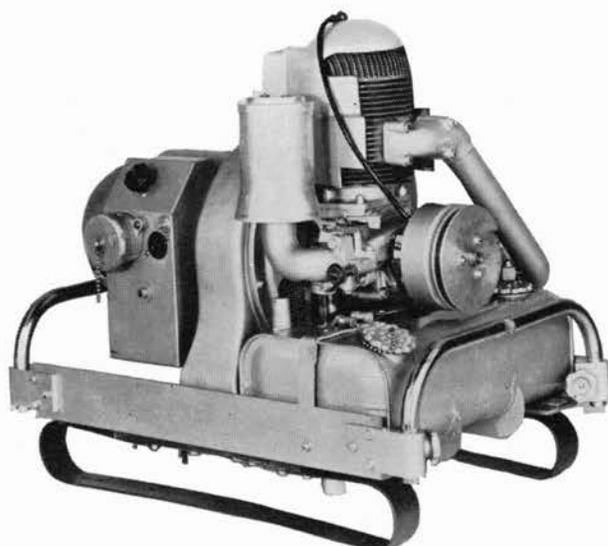
The built-in gasoline engine is weatherproof — will start just as easy in cold or rainy weather as it does indoors. All large castings are of aluminum alloys for maximum strength and minimum weight. Oil is mixed with the gasoline and lubricates all necessary parts while motor is running.

Model 23A115

This model has a rating of 1500 watts, 115 volts, 60-cycle single-phase alternating current. Voltage regulation is normally 14%, however, closer regulation is possible through the use of a field rheostat. Weight is 110 lbs. Size: 24" x 17" x 17½". Fuel consumption one gallon for 2¾ hours at full load. Stock No. (895977)



Homelite Power Unit 23A115



Homelite Power Unit 32A115/230-1

Model 24A115

Its rating is 2500 watts, 115 volts, 60-cycle single phase alternating current. The same voltage regulation is possible in this model as in the previously mentioned model. Weight is 135 lbs. and measures 25" x 18" x 20". Fuel consumption is one gallon for every 1¾ hours at full load. Stock No. (895978)

Model 32A115/230-1

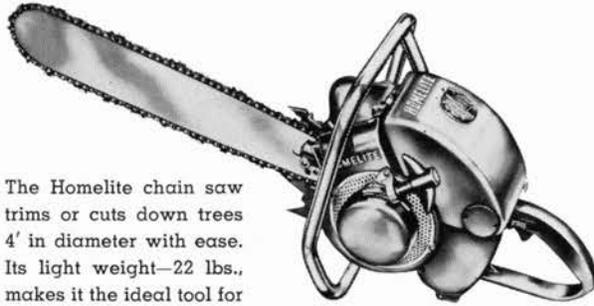
Has dual voltage output of 5000 watts, 230 volts, or 5000 watts, 115 volts, 60-cycle, single-phase alternating current. Voltage regulation from no load to full load is approximately $\pm 6\%$. Weight is 228 lbs. and measures 29" x 24½" x 25½". Fuel consumption is ¾ hour per gallon at full load. Three-gallon tank has auxiliary fuel supply fitting. Stock No. (895979)

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

Revised 1-1-57

HOMELITE MODEL 17 CHAIN SAW



The Homelite chain saw trims or cuts down trees 4' in diameter with ease. Its light weight—22 lbs., makes it the ideal tool for dropping or trimming trees in clearing right-of-ways. The saw has a rated horsepower of 3.5. Available with 15" to 36" straight blades and 14" and 18" plunge cut bows.

Catalog No. Model 17 Stock No. (895980)

NO. 164 BIG BEAM BEACON LAMPS



The combination portable electric hand lamp and flashing red beacon. The No. 164 uses a sealed beam bulb. With the beacon arm folded down over the handle, the beacon serves as a tail light. When beacon is raised to upright position, unobstructed vision is assured. When placed on ground or top of car, it serves as a warning or signal light. Two switches—one for headlight, the other for

a tail light. Powered by one No. 200, 6-volt lantern battery.

Catalog No.	Stock No.	Description
164	(897274)	Big Beam Beacon, Less Battery
200	(897275)	6-Volt Standard Lantern Battery

BIG BEAM MODEL NO. 211 PORTABLE ELECTRIC HAND LAMP



Throws a powerful 1,500-foot light beam for hundreds of utility and emergency uses. An emergency light for all purposes: electrical failure in storms, repair at night.

The most unusual feature of this lamp is its light weight—only 3¼ lbs. without batteries or 5½ lbs. with batteries.

Main and auxiliary bulbs. Double-throw switch with finger-tip control. Simple focus adjustment for spot and spread light. Powered by standard dry cell lantern batteries. Pressure contacts. No wires to connect. Perfectly balanced for carrying. Compact. Weatherproof, rustproof. Stock No. (894800)



Model T



Model M

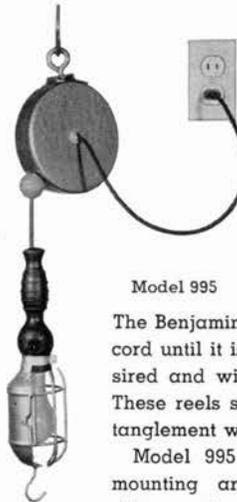
EXIDE LIGHTGUARD

Lightguards are excellent sources of emergency light. Instantly lights when normal power is cut off. Prevents fumbling in the dark for extra lamps as well as injuries that might be caused when all lights go out.

Available in two types—Model M and Model T, both feature either single- or dual-sealed beam lamps mounted on a container of gray 20-gauge steel. The Model M has a full-wave selenium rectifier with provision for manual two-rate charging. Control switches and signals are mounted on the front panel. The Model T has a full-wave selenium rectifier that automatically recharges the battery at a high trickle rate and maintains the battery fully charged.

Cat. No.	Stock No.	Description
48263	(895981)	Model M—Single or double lamp
48255	(895982)	Model T—Single or double lamp

BENJAMIN REELS



Model 995



Model 700-18-ML

The Benjamin Reel will store an electric extension cord until it is needed. It will pay out cord as desired and will take it back when work is done. These reels save time and reduce hazards of entanglement with loose, excess cord.

Model 995 reels are available with Eye-Bolt mounting arrangement for simple installation either overhead or on wall. Spring tension for the cord is balanced with the weight of the lamp guard and handle to prevent sudden return of the cord.

Over-all dimensions: 7½" diameter, 1½" deep. Approximate weight: 5 lbs. Electrical rating: 6 amps — 750 Watts.

Model 700-18-ML features a Benjamin Reel with floodlight attachment. This reel is mobile, having steel ball bearing casters and a 20' neoprene jacketed cord. Floodlight can be tilted to focus in any direction desired. Flood lamp itself is available at extra cost.

Model No. 995	Stock No. (895698)
Model No. 700-18-ML	Stock No. (895699)

STROMBERG-CARLSON

Revised 11-15-55

NO. 6 COLUMBIA GRAY LABEL DRY CELLS



Especially designed for telephone service. Noted for its long life on light drain service; exceptionally high in recuperative power. Round jacket; dimensions 2 5/8" dia. x 6 5/8" high. 1 1/2 Volts. Standard package 12 cells; approximate weight 58 pounds.

Stock No. (890302)

NO. 950 EVEREADY CELL

This battery has been recently improved for longer life. Light in weight, being designed expressly for portable equipment. Dimensions 1 21/64" dia. x 2 27/64" high. 1 1/2 Volts. Standard package 48 cells; approximate weight 9 1/4 pounds

Stock No. (894073)



NO. 487 MINIMAX B BATTERY



This Eveready B Battery will outlast the large bulky round-cell types. Dimensions 5 1/8" x 2 1/16" x 7 1/4". 45 Volts. Standard package 10 cells; approximate weight 44 pounds.

Stock No. (894803)

386C Specialty Battery Company Unit Type Telephone Battery

This battery is manufactured by the Specialty Battery Company, a subsidiary of the Ray-O-Vac Company. It is manufactured under the same quality-controlled production which has made Ray-O-Vac products famous for their high quality. The 386C is a 3-volt battery, equivalent of two No. 6 cells, housed in a single compact carton. They are convenient and economical. These batteries are supplied in mailing cartons ready to be sent to the subscriber who then makes the change himself. The 386C is a 3-volt battery measuring 3 3/8 x 2 5/8 x 5 3/8. It is packed in a standard package of 10 weighing 27 pounds.

Stock No. (890308)



4945C Specialty Battery Company Transmitter Battery

This battery is also manufactured by Specialty Battery Company, a subsidiary of Ray-O-Vac, under Ray-O-Vac's quality-controlled production. It is designed for use at operators' positions on telephone switchboards. It is composed of a number of small highly efficient cells connected in series parallel, to furnish 4 1/2 volts. It is provided with long service capacity and a uniform voltage characteristic. The 4945C is a 4 1/2-volt battery measuring 11 7/8 x 4 1/8 x 7. It is packed in a standard package quantity of two, weighing 32 pounds.

Stock No. (890307)



489C Specialty Battery Company Unit Type Telephone Battery

The 489C is a unit type plug in battery. It is a 4 1/2-volt battery, the equivalent of three No. 6 cells. It is housed in a single compact carton and is convenient and economical. These batteries are supplied in mailing cartons ready to be sent to the subscriber who then makes the change himself. The 489C is a 4 1/2-volt battery measuring 3 3/8 x 3 3/8 x 5 3/8 and packed in a standard package quantity of 10, weighing 43 pounds.

Stock No. (890309)



DRY CELLS

No. 6 Ray-O-Vac Telephone Battery

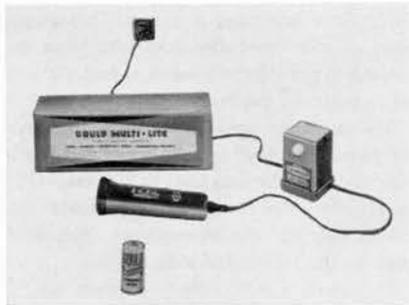
For a long life and low saving cost always use Ray-O-Vac No. 6 Telephone batteries. Quality controlled production insures maximum performance. Long life in performance cuts down replacements and keeps operating costs low. No. 6 Telephone 1 1/2 volts, round 6-inch battery, packed in standard packages of 25, weighing 58 pounds.

Stock No. (890304)



GOULD MULTI-LITE RECHARGEABLE FLASHLIGHT AND BATTERY

Here is a flashlight that has rechargeable batteries. The Gould Multi-Lite Unit comprises a flashlight with 2 nonremovable "D" size cells and a small charger that operates on a 115 v, 60-cycle A.C.



The Multi-Lite battery is hermetically sealed, permanently mounted in the flashlight, no corrosion or battery leakage. The battery has 250 use cycles. Battery maintains high voltage with high light intensity throughout each cycle.

Three flashlight models available: (1) all chrome, red plastic lens, fixed focus and shock absorber; (2) two-tone chrome, black trim, fixed spotlight focus; (3) safety approved type, fiber barrel insulation and neoprene caps.



Catalog No.	Stock No.	Description
2DRF-1	(895983)	All chrome case flashlight
2DRF-2	(895984)	Two-tone case flashlight
2DRF-3	(895985)	Safety case flashlight

EVEREADY AIR CELLS

Air depolarized, constant voltage primary batteries. Especially designed for telephone, railroad and industrial use where a uniform current supply is necessary at all times at a low ampere-hour cost.

Eveready Air Cell batteries are made in single cell units or in batteries consisting of two cells in series. The average voltage per cell is 1.25 under discharges usual in telephone transmission.

Batteries are shipped dry and are actuated by merely filling with the proper quantity of ordinary drinking water.

Air Cell No. T-2300 capacity 300 amp. hr.; Height 8 5/8 inches.

Air Cell No. T-1600 and T-2600 capacity 600 amp. hr.; Height 11 3/8 inches.



T-1600



T-2300

Type	Stock No.	Cells	Volts	Dimensions in. Length Width	Wt. Lb. Dry
T-1600	(894203)	1	1.25	5 23/64 x 6 1 9/32	11
T-2600	(894204)	2	2.5	9 29/32 x 6 1 9/32	21
T-2300	(894805)	2	2.5	8 1/4 x 5 5/16	11

PARAGON BATTERY BOXES

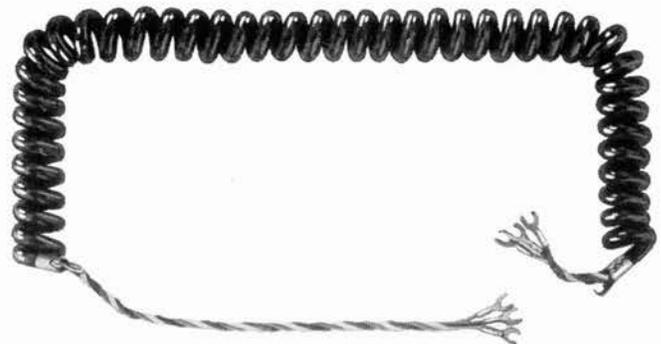
Made of heavy pressed steel and finished in bright black wrinkle. Lined throughout with insulating fibre.

Cover fits tightly and is attached to the box with nickel-plated chain. Holes are provided in the top and bottom for bringing in wires. Box is neat and durable and will thoroughly protect the batteries. Each box is individually packed in a carton.



Cat No.	Stock No.	Capacity Standard No. 6 Dry Cells	Wt. Lb.
2	(890305)	2	1 1/2
3	(890306)	3	2 1/2

RETRACTILE TELEPHONE CORDS



Koiled Kords extend effortlessly to the standard length of straight cord, and retract to a neat one foot of tightly coiled wire, out of the way when not in use.

Koiled Kords are permanently molded into their spring-like shape—no springs or other mechanical means are used. This construction assures longer life because the cord is free of kinks. The conductors are rubber insulated tinsel wire. The outer jacket is neoprene-black. Colored Koiled Kords available on request.

Cat. No.	Stock No.	Use
5001-1	(894826)	For use on Kellogg No. 1000 series Desk and No. 1100 series Wall Masterphones.
5001-2	(894827)	For Kellogg No. 900, 925, 9900, 9917 series and other Masterphones using a No. 27-C handset.
5001-3	(894828)	For use on Stromberg-Carlson, Western Electric and North Electric handset type telephones.
5001-4	(894829)	For use on Automatic Electric handset type telephones.
5001-5	(894830)	For use on Leich Electric handset type telephones.

STROMBERG-CARLSON

Revised 11-15-55

HANDS-FREE TELEPHONE



The "Hands-Free" Telephone is a new type of instrument that permits the user to initiate or receive calls without removing the handset from its cradle. This telephone is ideal for conferences, where a group of people sit around a table, for all can hear and take part in the conversation with the party on the other end of the line. It is possible for the user to leave his desk, go to a filing cabinet or other places within the room and still carry on a conversation.

The telephone instrument is the Stromberg-Carlson 1500 Series Telephone, gray in color, to which a sub-base and separate

microphone has been attached. This telephone can be used exactly as any other standard telephone. In addition, it may be utilized to provide two-way conversation even though the handset remains on the housing.

The sub-base contains controls that permit operation of the telephone as a loud speaking system. The left hand button is the "On" button. The one next to it is the "Off" button. A light indicates when the loud speaking system is in use. The "MCO" button cuts off the microphone. Volume is controlled by the knob on the right hand side.

To initiate a call, simply depress the "On" button, listen for the operator or dial tone, on the speaker, and either state the desired number or dial it — all without lifting the handset. To terminate a call, depress the "Off" button. If it is desired to cut down interfering noises or other conversations within the room, depress the "MCO" button which temporarily kills the microphone.

Volume level of the speaker is controlled by a volume control knob. The speaker and microphone are immediately cut off when the handset is lifted. To return to the speaker, depress the "On" button and replace the handset.

To install this telephone connect the line cord to a terminal box in the same way as a standard telephone. Connect power cord to any 110-volt A.C. outlet and connect microphone cord to a jack on the instrument.

Cat. No. 1583-A

Stock No. (895826)

GAI-PHONE

The Gai-Phone is a telephone subset designed expressly for use in high noise level areas. The instrument eliminates the need for noise-proof booths or other means of acoustic protection.

Installation and operation is simple. The instrument is connected to an existing telephone circuit and can be provided for either dial or manual operation; for desk or wall mounting. It is operated in the same manner as a standard telephone. A source of 110 v, 60 cycles AC is required for each instrument.

Sidetone can be varied from normal to below audibility. In areas of high noise level, the noise picked up on the transmitter and fed to the receiver can be eliminated or reduced to a comfortable level. This permits the user to hear clearly the voice signal coming into that area. A concealed control adjusts sidetone level at the time of installation.

The Gai-Phone provides control of incoming (receiver) volume level and outgoing (transmitter) level. This feature allows its use as a terminal repeater station on relatively long lines.

The electronic tubes used in this instrument have been chosen for their ruggedness and long life. The voltages at which the tubes operate are approximately 50% of the values normally used. This feature promotes long, trouble-free use.

The power used by the Gai-Phone is so low that it can be operated satisfactorily with a small D.C. inverter (the type normally used to operate an electric shaver from the cigarette lighter socket of an automobile). This feature, coupled with the instrument's built-in repeater characteristics, provides an ideal solution to temporary and other long line problems where reliable communication is difficult.



Catalog No.
100

Stock No.
(895344)

Description
Desk Type

To convert the desk type Gai-Phone to wall type, a wall mounting conversion assembly is available. Order Package Assembly Stock No. (212833).

STROMBERG-CARLSON

TELEX BOOM-TYPE HEADSET

Here is a combination of extreme light weight, rugged construction and outstanding sending-receiving quality for those who require a two-way headset. The new Telex Boom-type headset weighs only 3½ ounces, yet it is ruggedly constructed for long life; this being achieved through the use of plastics, light metals and miniature parts design.



Specifications

Sensitivity—120 db above .0002 dynes per square CM. per 1 milliwatt of input.

Frequency Response—Entire system covers range up to 5000 cycles.

Impedances—Receiver 500 ohms; Carbon mike 50 ohms.

Catalog No.
9650

Stock No.
(897276)

EARPHONES AND HEADSET PADS

Made of white sponge rubber, these pads add comfort to utility when placed on operators' headsets. The headset pad prohibits the wire band from slipping while in position on the operator's head. The receiver disc adds comfort to the earpiece and aids the operator by cutting down outside noises — making customer voices clearer.



Stock No.
(895433)
(895434)
(895435)

Description
Headset and Earphone Pads
Earphone Pads only
Headset Pads only

RUBEROID INSULATING TAPE

Asphalt Saturated



A tough, waterproof insulating tape, both sides adhesive. For use both above and below ground. Has great tensile strength, won't tear, ravel or pucker; resists abrasion and is acid or alkali proof. Will not dry, crack or harden and is especially durable. Adapted for wires, connections, conduit joints, overhead cables, mine machinery and mine locomotive cables,

telephone and electric light lines. May be stored without deterioration.

Exceeds A.S.T.M. specifications by 300% in adhesiveness, 26% in tensile strength and 290% in dielectric strength.

Width In.	Stock No.	Weight per roll	Approx. Ft. per roll
¾	(894196)	½ lb.	61 2/3
2	(894197)	1 lb.	46 1/4

Standard cases of ¾" contain 25 lbs.
Standard cases of 2" contain 50 lbs.

NO. 1501 A.S.T.M. FRICTION TAPE



SI Brand Friction Tape is made of a strong closely woven cotton fabric which is thoroughly saturated with an adhesive insulating compound that retains its sticking qualities through all seasons.

82½ feet minimum per roll. Supplied in ¾-inch and 2-inch widths.

Width In.	Stock No.
¾	(890751)
2	(890752)

PLASTIC ELECTRICAL TAPE



Will withstand exposure to all types of weather. The dielectric resistance of this tape is 8,000 volts per each .007" layer. This tape is pliable and will stretch 200% of its own length. Resists corrosive fumes. This tape remains workable at all ordinary temperatures. Size of one Roll is ¾" x 60'.

Catalog No. 60 Stock No. (895693)

Revised 1-1-57

OKOPRENE WEATHER RESISTANT TAPE



Okoprene Weather Resistant Tape provides permanent, non-fibrous protection for all splices in neoprene-sheathed cables. Made with neoprene, it possesses unsurpassed resistance to ozone and weather and excellent all-round physical properties.

Okoprene Tape fuses into a tough waterproof sheath which provides additional electrical insulation as well as permanent mechanical protection. Any need for friction tape coverings or weather-proof paint is thus eliminated.

Okoprene Tape Packing: Standard package is 3/4" width, 1/2 lb. roll, packed in cans. Others are wrapped in cellophane or waxed paper.

Stock No. (894841)

NO. 33 SCOTCH ELECTRICAL TAPE With Vinyl Plastic Backing



This tape has a stretchy, rubber-like Vinyl Plastic backing that enables it to do the work of the rubber and friction tape combination. Goes on in one operation, instead of two, and does a better job. Its stretchability and resistance to oil and moisture equip it perfectly for a wide range of uses in electrical construction and repair. Its thinness gives it an important advantage in "over-stuffed" junction boxes.

Cat. No.	Stock No.	Dimensions	Packing	
			Can	Carton
33	(894837)	3/4" x 66 Ft.	1	12
33	(894913)	3/4" x 20 Ft.	1	12

MANSON FRICTION TAPE



Made only with new rubber which thoroughly impregnates and coats the strong, closely woven cotton fabric.

Unequaled in true adhesiveness and in aging and weathering qualities.

Provides lasting protection for joint.

Rolls, 3/4 in. wide, containing 82 feet, black, per 1/2 lb. (in cans).

Cat. No. 92-11

Stock No. (890753)

OKONITE RUBBER TAPE



Compounded only from new Up-River fine Para rubber. When wrapped on the joint, it fuses into a homogeneous wall of tough insulation that is impervious to moisture and stays elastic and resilient.

Insures highest electrical strength and permanence.

Rolls, 3/4 in. wide, containing 30 feet, black, per 1/2 lb. (in cans).

Cat. No. 92-21

Stock No. (890755)

STROMBERG-CARLSON

BI-SEAL SELF-BONDING TAPE, TYPE 2

Virtually non-absorbent, this tape presents a strong barrier to water. When applied in layers, the tape fuses into a solid mass. This poly-ethylene based tape possesses excellent electrical, chemical, mechanical and thermal properties.

Recommended for use in splicing telephone cable and drop wire.

Several width sizes: 1/2", 3/4", 1", 2", at 20 mils thick. All in 30' rolls. 1/2" width packed 2 to a box, all others are 1 to a box.

Size	Stock No.
1/2"	(895187)
3/4"	(895188)
1"	(895189)
2"	(895987)



BISHOP VINYL ELECTRICAL TAPE, NO. 2



This tape offers complete electrical and mechanical protection for most general taping problems. Improved method of bonding the adhesive to the vinyl prevents transfer, and gives greater adhesive strength. Thin, tough, resilient.

Cat. No.	Stock No.	Dimensions	Packing
2	(897294)	1/2" x 36 yd.	Individual cellophane-wrapped
2	(897295)	3/4" x 36 yd.	
2	(897296)	1" x 36 yd.	
2	(897297)	1 1/2" x 36 yd.	
2	(897298)	2" x 36 yd.	

BISHOP NO. 125 FILLER TAPE



This especially blended synthetic rubber insulating compound in handy tape form is 1/8" thick. Fuses into a solid wall of high-dielectric insulation in a matter of seconds. It is highly moisture resistant.

Cat. No.	Stock No.	Dimensions	Packing
125	(896077)	1 1/2" wide x 1/8" thick x 5'	24 rolls per case

HI TAPE-MATE WINDER



Tape-Mate winds fish tape with an easy sliding action, under proper tension, and your hand never touches the tape as it winds on the reel. Tape coming off reel is safe, springing is eliminated by a keeper slot. Tape-Mate gives you exactly the footage called for. Tape-Mate fits all "HI" 12 in. fish tape reels or equivalent containing 1/8 in. flat fish tape.

Stock No. (897279)

HOLUB FISH TAPE

(Less Reel)



It is the highest grade oil tempered flat spring steel. Handles easily and runs smoothly. Each tape is individually packed and comes complete with wire loop.

Cat. No.	Stock No.	Length & Size of Tape	Wt. Lbs.
HI-205	(897280)	50 ft.—1/8" x .045" (3/64")	1 1/2
HI-206	(897281)	100 ft.—1/8" x .045" (3/64")	2 1/2

Other sizes available on request.

HOLUB FISH TAPE (With Reel and Puller)

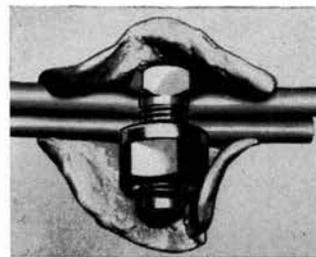


A real combination tool (1) Fish Tape, (2) Reel and (3) Puller. Speed wiring, saves tape, and gives a safe, positive grip. Tape always enclosed in reel with end locked.

Cat. No.	Stock No.	Length & Size of Tape	Wt. Lbs.
HI-140	(897282)	50 ft.—1/8" x .045" (3/64")	2
HI-200	(897283)	100 ft.—1/8" x .060" (1/16")	5

Other sizes available on request.

KEARNEY AIRSEAL



Airseal is a weatherproof insulating compound for preventing the formation of oxides and corrosion in electrical connections.

Temperature down to -50°F. will not cause Airseal to harden, nor will it flow at temperatures up to +250°F. Application is made by kneading the

compound over the connection; to remove, it is necessary only to peel off the protective coat. Airseal will not stick to hands or gloves.

Airseal does not deteriorate even when installed underground to protect ground rod connections.

Catalog No. 18415 Stock No. (895228)

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

KEARNEY RUST-CUTTER

No. 19229



Kearney Rust-Cutter is a new product for chemically loosening ferrous nuts, bolts, and other corroded hardware.

It is superior to penetrating oils because of its much faster action. Pressurized nozzle takes the atomized mist into places which otherwise could not be reached.

Rust-Cutter will not harm skin.

Stock No. (895237)

TYPE RTC-2 VINCENT RARE GAS RELAYS

An electronic device for use on telephone lines instead of mechanical ringing relays. It has no moving parts, may be placed in any position and is unaffected by atmospheric or temperature changes.

Used on magneto or common battery lines, leaving the condensers in where they are used in the bell circuit. Either harmonic or coded ringing bells may be used.

Lines equipped with the relay are free from grounds in normal operation and therefore free from noises which would ordinarily be picked up through grounds.

Prevents premature tripping in machine ringing from manual or dial offices.

Also acts as a protector against lightning discharges and drains off excessive current induction from high tension sources.



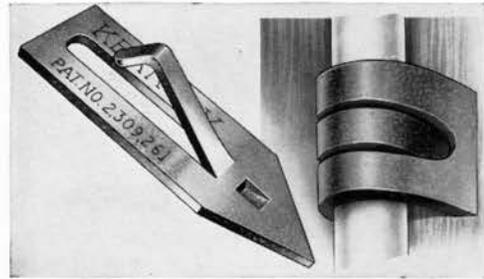
Consists of a small glass tube containing a special combination of rare inert gases acting in contact with special metal electrodes, which allow current to pass above a closely pre-determined voltage. The glass envelope is mounted in a heavy bakelite shell for protection. Whole unit is mounted in a special holding clamp with the terminals of the relay presented at convenient points for connections.

Length 2½ inches and height, 1½ inches, when mounted.

Furnished complete with mounting.

Stock No. (892163)

KEARNEY NON-STATIC GROUND CLIP



These clips eliminate a major source of radio interference by maintaining high pressure contact with ground wires.

They are more satisfactory than staples, as contact pressure is not dependent upon how tight the clip is set in the wood. Once staples begin to loosen, the air gap which develops causes a tiny radio spark gap that appears as a loud buzz in receivers throughout the area.

Kearney Non-Static Ground Clips permanently grip the wire and contact is maintained free of air gaps. Drive pointed end into wood, insert ground wire under hook, drive until hook protrudes through body slot, and bend end of clip over until firm.

Catalog No.	Stock No.	Ground Wire Size	Length In.	Material	Wt./Lb. per M
12326	(895235)	4 Sol.	2½	Galv. Steel	27
12325	(895236)	4 Sol.	2½	Bronze	30

KEARNEY GUY WIRE CLIPS



Kearney Guy Wire Clips serve up strand ends quickly and securely. They are stamped half formed to fit the guy strand, and are made in six sizes of aluminum, galvanized iron and copper.

Two small indentations are punched in the clips to prevent it from twisting or loosening on the strand.

While these clips are easily installed with a pair of pliers, a quicker and neater job is obtained with the Guy Wire Clip Tool.

Aluminum

Cat. No.	Stock No.	Size of Strand Inches	Strand Rating	Weight Lb. Per 100
400	(891768)	¼	4M.	2
36	(891769)	5/16	6M.	2
37	(891770)	¾	10M.	2½

Galvanized iron and copper, other sizes of aluminum available on request.

Revised 1-1-57

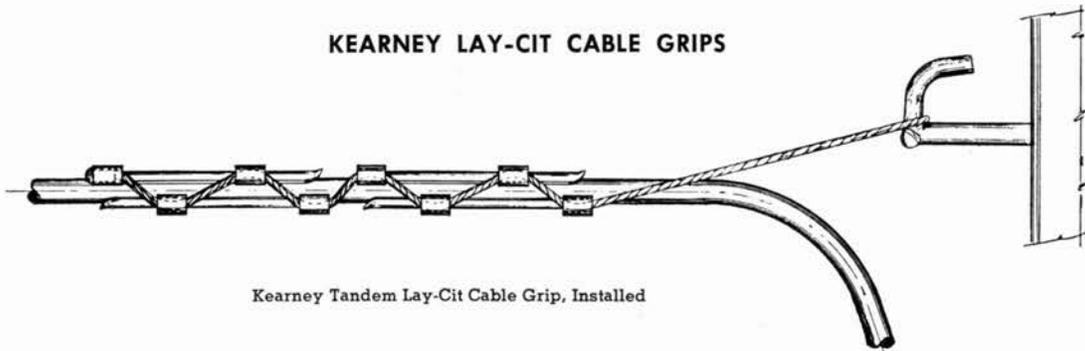
KEARNEY DROP WIRE GRIP



An efficient drop wire grip for attaching telephone drop wire to poles and buildings. The "snubbing" action of this grip is greater than the rated strength of the conductors, because strain is distributed throughout the length of the grip. This prolongs the life of drop wire and permits free swinging of the tie. Also, the smooth spiral channel makes it unnecessary to "parallel" twisted pair wire.

Cat. No.	Stock No.	Material	Length	Approx. Ship. Wt. per 100
6715	(893044)	Copper	8 1/2"	12 pounds
6715-1	(893045)	Steel	8 1/2"	12 pounds

KEARNEY LAY-CIT CABLE GRIPS



Kearney Tandem Lay-Cit Cable Grip, Installed

The Kearney Lay-Cit Cable Grip is a neat, compact grip for aerial and service cable. The double gripping action of the Lay-Cit plates and the extra holding power of their inner surfaces provide a secure cable fastening that will not damage insulation, making this grip particularly efficient on modern synthetic-jacketed cables.

The laced design of the Lay-Cit grip causes an evenly distrib-

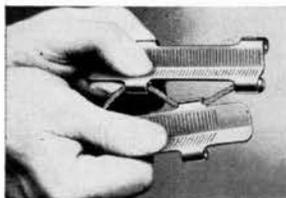
uted increase in holding pressure with an increase in conductor tension, preventing slipping of the conductor inside the jacket. The grip is conveniently installed, even on continuous runs, and cable slack is easily adjusted without removing the grip.

Lay-Cit Cable Grips

Catalog No.	Stock No.	Round Cable Sizes
	Single	
19234	(895035)	3/8" to 5/8"
19235	(895036)	5/8" to 1 1/8"
	Tandem	
19234-5	(895226)	3/8" to 5/8"
19235-5	(895227)	5/8" to 1 1/8"



Single Lay-Cit Cable Grip



First operation is to spread plates far enough apart so that they may be properly fitted around the cable being used.



Adjust grip to fit cable by spreading plates apart so one plate rests on top and the other on the bottom of cable.



Place bottom of bail in position, then lace through the hooks of the bottom and top plates—keeping plates one above the other.



With lacing in place, pull up bail snugly and notice how plates take grip and settle into position.

STROMBERG-CARLSON

RELIABLE DROP WIRE CLAMP



Type PS Drop Wire Clamp

An ideal device for attaching twisted pair or parallel drop wire to poles and buildings. It prolongs the life of the installation, permits free swinging at the tie, places all the wear on the hardware and eliminates sharp bends in the insulation.

The Drop Wire Clamp makes a very neat appearing installation. It is easy and quick to install. Two of them can be used to make an angular turn. Slack in drop wires can be taken up very quickly without leaving any weak spots. Clamp is wedge-shaped, with a copper wire loop at one end for hooking over a common drive hook, masonry hook or porcelain knob. When using twisted pair, it is essential to parallel the wires through the clamp.

Type P Clamp

Clamps will accommodate standard No. 18, No. 17, No. 16, or No. 14 A.W.G. twisted pair or parallel drop wire with neoprene, braid or plastic-covered.

Cable, Twisted Pair or Parallel; Range of Clamp, .160" Max., .140" Min., Width .250"; Bail Length 4"; Standard Package 25; Shipping Weight per 100, 11 Lbs.

Catalog No. P

Stock No. (893046)

Type PS Clamp

Used in similar manner to Type P above. Will accommodate No. 17 Non-Reinforced wire and all sizes through No. 20. The longer and sharper taper permits use with these smaller wires.

Catalog No.	Stock No.	Std. Pkg.	Ship. Wt.
PS	(894918)	25	12 1/4 lbs.

Type PR Clamp

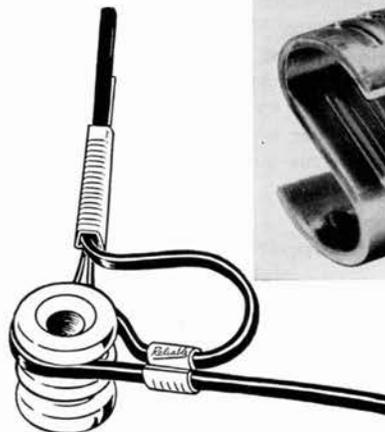
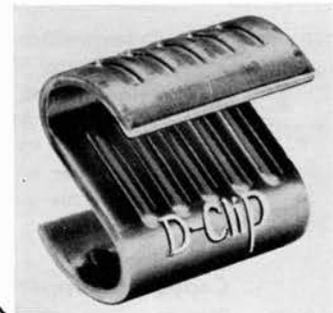
Similar to types P and PS but is largely used with Nos. 14-16 AWG twisted pair and parallel wires. Also suitable with Nos. 17-18 AWG reinforced parallel wires, neoprene jacketed.

Catalog No.	Stock No.	Std. Pkg.	Ship. Wt.
PR	(895689)	25	14 lbs.

GENERAL INDEX

A complete alphabetical index with cross references for all the products shown in this section or any of the other sections will be found in the center of this catalog.

RELIABLE DROP WIRE CLIP



Drop wire with types "P" and "D" clips.

The Reliable "D" clip is suitable for both parallel and dumbbell type drop wires. It provides a fast, neat installation and eliminates a second support. For example, the porcelain knob that supports the "P" drop wire clamp can also be used to snub the drop wire after forming a loop to change the direction of the drop wire run.

Catalog No. D

Stock No. (895292)

RELIABLE TESTING CLIPS

Reliable Testing Clips are used for temporary connections to insulated wires and are equipped with hard, sharp insulation puncturing points and perfectly registering teeth.



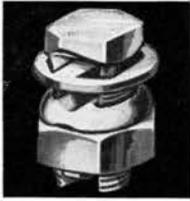
Cat. No.	Stock No.	Description	Std. Pkg.	Ship. Wt. Lbs per C
1	(892188)	Fitted with screw, nut, washer and spike. (As illustrated)	100	2 1/2
2	(892189)	Fitted with Spike only	100	2 1/2
3	(892190)	Fitted with screw, nut and washer	100	2 3/4



Cat. No.	Stock No.	Description	Std. Pkg.	Ship. Wt. Lbs per C
5	(892191)	As shown in lower illustration	100	1

Revised 1-1-57

KEARNEY TELEPHONE CON-NEC-TITES



An inexpensive and reliable means of making bridge or test connections in telephone work. Small and compact in size.

Galvanic action between iron and copper is eliminated by the use of a plated separating washer which places like metals together—thus assuring maximum pressure distribution.

Copper to Copper Connection

Cat. No.	Stock No.	Maximum Wire Size	No. of Washers	Wt. Lb. per 100
86-7	(893092)	12 NBS-10 B&S	1	2
986-7	(893093)	12 NBS-10 B&S	2	2
89-2	(893094)	10 NBS-8 B&S	1	3
989-2	(893095)	10 NBS-8 B&S	2	3

Iron to Iron Connection

2451-7	(893096)	12 B.W.G.	1	2
2449-7	(893097)	12 B.W.G.	2	2

Iron to Copper Connection

5694-7	(893098)	12 B.W.G.-12 NBS	2	2
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C-R SERVICE CONNECTORS



For connecting copper, or bronze or copperweld drop or service wires to galvanized iron or copper line wires, or for multiple service and party-line connections, pole jumper wires, groundwire connections, etc.

Made in two types, tinned for galvanized iron to copper wire connections and plain brass for copper to copper wire connections. When ordering state whether tinned or plain brass connectors are wanted.

Cat. No. 1. Made in nickel finish brass only. Used for splicing drop wire, multiple taps on drop wire, connecting house wire to drop wire, etc. 1/4-inch brass bolt with 3/8-inch hexagon head and nut, slotted to receive No. 14 B&S gage, No. 17 B&S gage and smaller wires.

Cat. No. 2. 5/16-inch brass bolt with 7/16-inch hexagon head and nut slotted to receive No. 12 B&S gage, No. 14 N.B.S. gage and No. 14 B.W. gage wires.

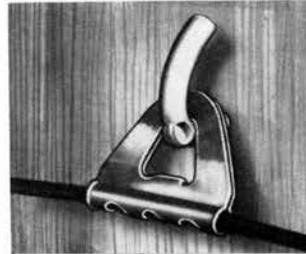
Cat. No. 3. 3/8-inch brass bolt with 5/8-inch hexagon head and nut, slotted to receive No. 10 B&S gage, No. 12 N.B.S. gage and No. 12 B.W. gage wires.

Cat. No. 3A. 3/8-inch brass bolt with 1/2-inch hexagon head and nut, same capacity as No. 3 but lighter construction.

Cat. No. 3A. 3/8-inch brass bolt with 1/2-inch hexagon head and nut, same capacity as No. 3 but lighter construction.

Cat. No.	Stock No.	Type
1	(893081)	Nickel
2	(893082)	Brass
2	(893083)	Tinned
3	(893084)	Brass
3	(893085)	Tinned
3A	(893086)	Brass
3A	(893087)	Tinned

KEARNEY DROP WIRE CLIPS



For Intermediate Drop Wire Attachments

This reliable clip can be used either with parallel or twisted pair drop wire, where intermediate fastenings are desired on straight line drop extensions. They

are carefully designed to grip drop wire tightly without damaging the wire.

Catalog No. 11452 Stock No. (894836)

BRIDGING CONNECTORS



Reliable solderless bridging connectors are made with a cold forged bolt from a tough alloy of almost pure copper. The nuts are forged of silicon bronze by a method that re-

jects material with any flaws. These connectors are economical to use, convenient to install, and provide much more strength than actually required.

Bridging Connectors Without Spacer For Copper and Copperweld Wires

Stock No.	Cat. No.	AWG Solid	AWG Strand	Std. Pkg.	Shpg. Wt. Lbs. per C
(897036)	9F	10	10	100	2
(895074)	9FB with washer	10	10	100	2 1/4
(897290)	8F	8	8	100	2 3/4
(897291)	8FB with washer	8	8	100	4

For copper to copper, steel to steel, solid aluminum to solid aluminum. Recommend Spacer Type for aluminum.

Stock No.	Cat. No.	Steel BWG Solid	Alum. or Copper AWG Solid	Alum. or Copper AWG Strand	Std. Pkg.	Shpg. Wt. Lbs. per C
(893090)	9FG	12	9	—	100	2
(897292)	8FG	10	7	8	100	2 3/4

Bridging Connectors with Spacer

All-purpose connector for copper to copper, copper to aluminum, aluminum to aluminum, steel to copper and steel to aluminum.

Stock No.	Cat. No.	Steel BWG Solid	Alum. or Copper AWG Solid	Alum. or Copper AWG Strand	Std. Pkg.	Shpg. Wt. Lbs. per C
(893091)	9FGB	12	9	—	100	2 1/4
(897293)	8FGB	10	7	8	100	4

HI PLASTIC SCREWANCHOR



NO CONFUSION IN USE!

The HI plastic screw anchors consist of two separate sections, one to receive the screw and the other to engage the walls of the drilled hole. As the screw is driven into the center section, the plastic and the outer section is forced outward. Microscopic inspection proves that the plastic actually cold flows into the pores of the material in which the anchor is set.

Stock No.	For Wood Screws Size	Length	Use Anchor No.	Anchor Length	Drill Hole	Std. Ctn.
(897284)	6, 5 or 4	1" or 1 1/4" 1 1/2"	6	3/4" 1"	1 1/4"	100
(897285)	8, 7, 6 or 5	1" or 1 1/4" 1 1/2" 2" or 2 1/2"	8	3/4" 1" 1 1/2"	3/8"	100
(897286)	10, 9, 8 or 7	1" or 1 1/4" 1 1/2" or 1 3/4" 2" or 2 1/2"	10	3/4" 1" 1 1/2"	7/32"	100
(897287)	12, 10 or 9	1 1/4" 1 1/2" 1 3/4" or 2"	12	3/4" 1" 1 1/2"	1/4"	100
(897288)	14 or 12	1 1/2" or 1 3/4" 2" or 2 1/2" 3" or 3 1/2"	14	1" 1 1/2" 2"	5/32"	100
(897289)	16, 14 or 1/4" lag screw	1 1/2" 2" or 2 1/2" 3" or 3 1/2"	16	1" 1 1/2" 2"	5/16"	50

**DIAMOND WING-DING
HOLLOW WALL ANCHOR**



Stability of a tripod engineered into each Wing-Ding. One size for all average walls, smallest size hole of any hollow wall anchor. Positive setting and easy to install.

Catalog No. 7922 Stock No. (897167)

**COMMON NAILS AND SPIKES
Hot Galvanized**



Flat reinforced head diamond pointed nails heavily galvanized can be supplied in sizes from 2d to 60d. Following sizes more generally used in telephone work.

Size No.	Stock No.	Length In.	Gage No.	Approx. No. per Keg
6d	(893621)	2	11 1/2	17400
8d	(893622)	2 1/2	10 1/4	10600
10d	(893623)	3	9	6900
20d	(893624)	4	6	3100
30d	(893625)	4 1/2	5	2400
40d	(893626)	5	4	1800
50d	(893627)	5 1/2	3	1400
60d	(893628)	6	2	1100
*60d	(893629)	3 1/2	1	---

*Stub spike. Not standard.

TOGGLE BOLTS



For making attachments to hollow brick, tile or lath walls.

The Diamond Spring Toggle is made with two wings that engage a trunnion nut and a spring which forces the wings outward when the head has passed through the wall.

Bolt Size Inches Diam.	Bolt Size Inches Lgth.	Stock No.	Drill Size Inches
1/8	2	(890138)	3/8
1/8	3	(890139)	3/8
1/8	4	(890140)	3/8
3/16	2	(890142)	1/2
3/16	4	(890143)	1/2
3/16	5	(890144)	1/2
3/16	6	(890145)	1/2
1/4	3	(890146)	5/8
1/4	4	(890147)	5/8
1/4	5	(890148)	5/8
1/4	6	(890149)	5/8

GENERAL INDEX

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26w • MISCELLANEOUS

Revised 1-1-57

IRON WOOD SCREWS



Flat Head



Round Head



Oval Head

These screws are available in hot galvanized, blued, bright or cadmium plated. Specify finish.

Screw Size	Length	Stock No.	Heads (Specify)			Screw Size	Length	Stock No.	Heads (Specify)		
			Standard Flat	Round	Oval				Standard Flat	Round	Oval
2	1/4	(893520)	x	x		9	1	(893568)	x	x	
2	3/8	(893521)	x	x		9	1 1/4	(893569)	x	x	
2	1/2	(893522)	x	x		9	1 1/2	(893570)	x	x	
2	5/8	(893523)	x	x		9	1 3/4	(893571)	x		
						9	2	(893572)	x	x	
3	3/8	(893524)	x	x		9	2 1/2	(893573)	x		
3	1/2	(893525)	x	x							
3	5/8	(893526)	x	x		10	3/4	(893574)	x	x	
						10	7/8	(893575)	x	x	
4	1/4	(893527)	x	x		10	1	(893576)	x	x	x
4	3/8	(893528)	x	x	x	10	1 1/4	(893577)	x	x	x
4	1/2	(893529)	x	x	x	10	1 1/2	(893578)	x	x	x
4	5/8	(893530)	x	x	x	10	1 3/4	(893579)	x	x	x
4	3/4	(893531)	x	x	x	10	2	(893580)	x	x	x
4	7/8	(893532)	x	x		10	2 1/4	(893581)	x		
4	1	(893533)	x	x		10	2 1/2	(893582)	x	x	
4	1 1/4	(893534)	x			10	3	(893583)	x	x	
						10	3 1/2	(893584)	x		
5	3/8	(893535)	x	x							
5	1/2	(893536)	x	x		12	3/4	(893585)	x	x	
5	5/8	(893537)	x	x	x	12	7/8	(893586)	x	x	
5	3/4	(893538)	x	x	x	12	1	(893587)	x	x	
5	7/8	(893539)	x	x		12	1 1/4	(893588)	x	x	x
5	1	(893540)	x	x	x	12	1 1/2	(893589)	x	x	x
5	1 1/4	(893541)	x			12	1 3/4	(893590)	x	x	x
						12	2	(893591)	x	x	x
6	3/8	(893542)	x	x	x	12	2 1/4	(893592)	x		
6	1/2	(893543)	x	x	x	12	2 1/2	(893593)	x	x	
6	5/8	(893544)	x	x	x	12	3	(893594)	x	x	
6	3/4	(893545)	x	x	x	12	3 1/2	(893595)	x		
6	7/8	(893546)	x	x	x						
6	1	(893547)	x	x	x	14	1	(893596)	x	x	
6	1 1/4	(893548)	x	x	x	14	1 1/4	(893597)	x	x	
6	1 1/2	(893549)	x	x	x	14	1 1/2	(893598)	x	x	
						14	1 3/4	(893599)	x	x	
						14	2	(893600)	x	x	
7	1/2	(893550)	x	x		14	2 1/4	(893601)	x		
7	5/8	(893551)	x	x		14	2 1/2	(893602)	x	x	
7	3/4	(893552)	x	x	x	14	3	(893603)	x	x	
7	7/8	(893553)	x	x		14	3 1/2	(893604)	x		
7	1	(893554)	x	x	x	14	4	(893605)	x		
7	1 1/4	(893555)	x	x							
7	1 1/2	(893556)	x	x	x						
						16	1 1/4	(893607)	x		
						16	1 1/2	(893608)	x		
8	1/2	(893557)	x	x		16	1 3/4	(893609)	x		
8	5/8	(893558)	x	x	x	16	2	(893610)	x		
8	3/4	(893559)	x	x	x						
8	7/8	(893560)	x	x	x	16	2 1/2	(893611)	x		
8	1	(893561)	x	x	x	16	3	(893612)	x		
8	1 1/4	(893562)	x	x	x	16	3 1/2	(893613)	x		
8	1 1/2	(893563)	x	x	x	16	4	(893614)	x		
8	1 3/4	(893564)	x	x							
8	2	(893565)	x	x		18	1 1/2	(893615)	x		
8	2 1/2	(894177)	x	x		18	2	(893616)	x		
						18	2 1/2	(893617)	x		
						18	3	(893618)	x		
9	3/4	(893566)	x	x		18	3 1/2	(893619)	x		
9	7/8	(893567)	x	x		18	4	(893620)	x		

Lengths and Diameters not listed can be furnished on special order when quantities are sufficient to warrant a special run. Phillips Recessed Head Wood Screws are also available on special order.



DIAMOND DRIVE RINGS

This ring accomplishes the same purpose as the screw threaded pigtail bridle ring, but is designed for driving instead of screwing into structures. When attached to hard substances, brick, stone or concrete, hammer drive anchors are employed.

Made of hard nail wire, hot dip galvanized.

Stock No. (893078)(893079)(893080)

Diameter Eye.....in.	1/2	3/8	7/8
Size Hammer Drive Anchor to Use . in.	3/16x7/8	1/4x1	1/4x1
Weight per 1000	lb. 18	28	53

BRIDLE RINGS
Galvanized and Enameled



For pole and line interior block distribution.

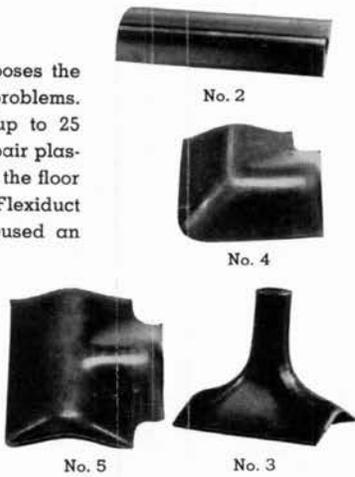
Furnished either galvanized by the hot process or enameled. All enameled rings, unless otherwise, specified, are furnished in dark blue. Opening of all rings is 5/16 inches.

Style	Stock No.		Eye In.	Shank In.	Steel In.	Lbs. per 1000	
	Galvan.	Enam.				Galvan.	Enam.
A	(893052)	(894161)	1 5/8	1 1/4	1/4	150	150
C	(893053)	(894162)	1 1/4	1 1/4	1/4	125	125
E	(893054)	(894163)	5/8	7/8	3/16	50	50
F	(893055)	(894164)	3	1 7/8	5/16	335	335

FLEXIDUCTS

Flexiduct equipment disposes the "over-the-floor" wiring problems. This floor duct carries up to 25 pair cloth covered or 16 pair plastic covered cable. It hugs the floor and is stumbleproof. Flexiduct can be removed and reused an indefinite number of times, making it a permanent part of the office equipment.

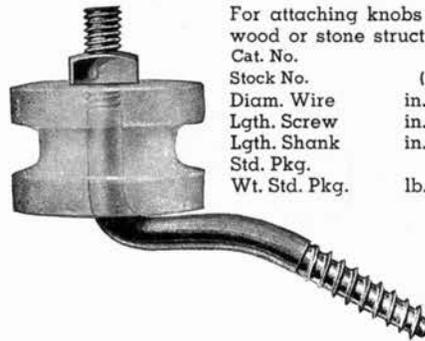
Installations require a maximum of five items and some tubed adhesive, all of which are listed below:



Cat. No.	Stock No.	No. Cond. carried and description
1	(895728)	8 - Inside wire
2	(895729)	25 prs. cloth covered, 16 prs. plastic
3	(895730)	Riser
4	(895731)	L - Joint
5	(895732)	T - Joint
6	(895733)	5 oz. tube of adhesive

ANGLE SCREWS

Intergalvanized
Furnished Less Knobs



For attaching knobs for drop wiring on wood or stone structures.

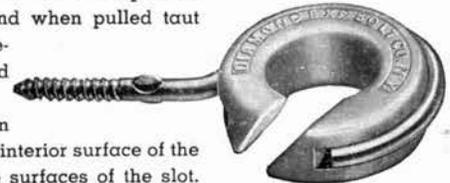
Cat. No.	5/16	3/8
Stock No.	(891230)	(891231)
Diam. Wire	in. 5/16	3/8
Lgth. Screw	in. 1 3/4	2
Lgth. Shank	in. 2 1/4	3 1/2
Std. Pkg.	100	100
Wt. Std. Pkg.	lb. 15	20

INSULATED SCREW EYES
Hot-Dip Galvanized

The porcelain ring has a diagonal opening which allows the easy insertion of wires and when pulled taut they cannot become released from the ring.

The porcelain is glazed on the interior surface of the ring and on the surfaces of the slot.

Opening 9/32 inch; Steel 1/4 inch.



Type In.	Stock No.	Size Eye In.	Length Shank In.	Wt. Lb. per 1000
5/8-S	(891232)	5/8	1	85
5/8-L	(891233)	5/8	2	95
1-S	(891234)	1	1 1/8	180
1-L	(891235)	1	2 1/8	190

T5-STAPLING TACKER

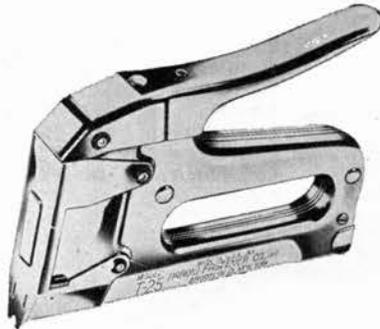
The T5 Stapling Tacker speeds up the installation of inside telephone wire. It is handy for it is possible to work in confined places where swinging a hammer is difficult.

Feeds and drives more than 80 staples without reloading. This stapling tacker is grooved to fit over Whitney Blake parallel Teleduct wire. It will attach both two and three conductor styles and drive staples so as to hug wire firmly without damaging the insulation.



Catalog No.	Stock No.	Description
T5-8	(895264)	Stapling Tacker
STCR-5019	(895265)	3/8" Staples

T-25 ARROW STAPLE GUN



The T-25 automatic staple gun will staple any wire up to 1/4" in diameter. The driving blade automatically stops short preventing injury to the wire covering. Tapered head provides easy access into tight corners.

Catalog No.	Stock No.	Description	Packaged
T-25	(897074)	Automatic Stapling Tacker	
T-25 Staples	(897075)	3/8" staples	5,000 per box
T-25 Staples	(897076)	7/16" staples	5,000 per box
T-25 Staples	(897077)	9/16" staples	5,000 per box

**TELEPHONE INSTRUMENT
SAMPLE CASES**



Here's the perfect case for sales calls to residential, business and professional subscriber prospects. Black luggage-type hardware and exterior finish. Has ample space for displaying of two removable Stromberg-Carlson 1500 Series Telephones of your choice. Line cords are neatly stored by winding around cover cleats.

Stock No. (896040)

Prices—Supply Sections

For Your Information

WHEN ORDERING—Give billing name and address and destination to which goods are to be shipped. Take care to specify our Code or Stock Number as well as the name of each article ordered. Unless you specify what is wanted by Number, your order may be subject to delay.

PRICES are subject to change without notice. All merchandise will be billed at prices in effect at time of shipment which may be either higher or lower than those listed. Prices shown herein do not include any sales, excise, freight, use or similar taxes. All such taxes will be shown as additional charge on invoices where applicable.

TERMS are net 10 days E.O.M. (End of Month) billing. Cash Discounts as established by the manufacturer of the supply materials will be extended to customers.

ALL AGREEMENTS are made contingent upon strikes, fires, accidents or causes beyond our control.

SHIPMENTS on Telephone Supply Material will be made from Rochester, New York; Chicago, Illinois; Kansas City, Missouri; San Francisco, California or direct from the manufacturer of such material.

Unless otherwise agreed upon all goods are sold f. o. b. Rochester, New York, Branch Office Warehouses or manufacturer's shipping point and transportation charges will therefore be collected by the carriers upon arrival of goods at destination.



SECTION **M** POLE LINE HARDWARE

Issue Date: 11-1-55

On Pole Line Hardware prices are f.o.b. our warehouses and/or manufacturers plant with full freight allowed (and prepaid) on shipments weighing 100 pounds or more to nearest regular Railroad freight station in the following states only. Orders will be invoiced at the proper zone price applying to shipping destination.

Shipments of less than 100 pounds will be f.o.b. shipping point.

If it is requested that shipment be made by mail, express or other than in the cheapest way, such additional expense will be borne by the purchaser.

ZONES APPLICABLE TO POLE LINE HARDWARE

Zone 1

CONNECTICUT
DELAWARE
DISTRICT OF COLUMBIA
ILLINOIS
INDIANA
IOWA
KENTUCKY
MAINE

MARYLAND
MASSACHUSETTS
MICHIGAN
MINNESOTA
MISSOURI
NEW HAMPSHIRE
NEW JERSEY
NEW YORK

OHIO
PENNSYLVANIA
RHODE ISLAND
VERMONT
VIRGINIA
WEST VIRGINIA
WISCONSIN

Cities of: Bristol, Tenn., Kansas City, Kansas, and Omaha, Nebraska

Zone 2

ALABAMA
ARKANSAS
FLORIDA

GEORGIA
LOUISIANA
MISSISSIPPI

NORTH CAROLINA
NORTH DAKOTA
OKLAHOMA

SOUTH CAROLINA
SOUTH DAKOTA

KANSAS, except City of Kansas City, Kansas.
NEBRASKA, except City of Omaha, Nebraska.

TENNESSEE—All of Tennessee, excepting City of Bristol, Tenn.

TEXAS—City of Texarkana, Texas only.

Zone 3

COLORADO

NEW MEXICO

WYOMING

MONTANA—All of Montana, excepting the Counties of Flathead, Lincoln, Sanders and Lake.

TEXAS—All of Texas, excepting City of Texarkana, Texas.

Zones 4 and 5 Western and Pacific Coast not shown.

Prices in these zones are slightly higher and are available upon request.

When prices listed are under Eastern and Western Zones, the following points indicate the boundary lines:

EASTERN ZONE: Includes all points in the U. S. east of the boundary lines as outlined below:

Montana—East of the eastern boundary line.

Wyoming—East of the eastern boundaries of the following counties: Big Horn, Washakie, Fremont and Sweet Water.

Colorado—East of the eastern boundaries of the following counties: Jackson, Grand, Gilpin, Clear Creek, Park, Teller, Fremont, Custer, Alamosa and Costilla.

New Mexico—East of the eastern boundaries of the following counties: Taos, Sandoval, Valencia, Socorro and Luna.

WESTERN ZONE: Includes all points in the U. S. west of the above boundary lines.

TO DETERMINE YOUR COST ON POLE LINE HARDWARE

Prices as shown are based upon ordering in standard package quantities. If less than standard package quantities are ordered add 15% to the price.

Cancelling Sheet Dated: 12-1-53

All prices subject to change without notice

STROMBERG-CARLSON

Everstick Expanding Anchor

			PRICE EACH			
Cat. No	Stock No.		Eastern Zone		Western Zone	
			1-99	100 or more	1-99	100 or more
62	890002	2 way	\$ 1.78	\$ 1.70	\$ 2.04	\$ 1.96
82	890003	2 way	2.67	2.55	2.96	2.85
633	890004	3 way	2.15	2.05	2.68	2.58
834	890005	3 way	2.67	2.55	2.96	2.85
836	890006	3 way	3.36	3.20	3.86	3.72
8310	890007	3 way	3.67	3.50	4.32	4.16
8312	890008	3 way	3.67	3.50	4.32	4.16
10316	890009	3 way	6.82	6.50	8.41	8.09
84-¾	890011	4 way	3.93	3.75	4.62	4.45
84-1	890012	4 way	3.93	3.75	4.62	4.45
104	890013	4 way	7.45	7.10	8.79	8.47
124	890014	4 way	11.44	10.90	12.79	12.30

Chance Pyramid Cone Anchors

			PRICE EACH			
Cat. No.	Stock No.		Eastern Zone		Western Zone	
			1-99	100 or more	1-99	100 or more
6	890015		\$.85	\$.80	\$ 1.05	\$ 1.00
8	890016		1.20	1.15	1.45	1.40
10	890017		2.10	2.00	2.35	2.15
12	890018		3.05	2.90	3.55	3.40
16	890019		6.20	5.90	7.00	6.70

Other sizes on request.

Kearney P-L Expanding Anchors

				PRICE EACH			
Cat. No.	Stock No.	Standard Pkg.		Eastern Zone		Western Zone	
				1-99	100 or more	1-99	100 or more
KPL-62-2.5	895168	2 way	6	\$ 1.45	\$ 1.25	\$ 1.70	\$ 1.50
KPL-62-4	895169	2 way	6	1.85	1.70	2.15	2.00
KPL-82-6	895170	2 way	6	2.35	2.25	2.75	2.60
KPL-82-8	895171	2 way	6	2.60	2.40	3.00	2.85
KPL-82-10	895172	2 way	6	2.90	2.75	3.40	3.25
KPL-82-12	895173	2 way	6	2.90	2.75	3.40	3.25
KPL-84-100-6	895174	4 way	6	2.35	2.25	2.75	2.60
KPL-84-115-8	895175	4 way	6	2.60	2.40	3.00	2.85
KPL-84-135-10	895176	4 way	6	2.90	2.75	3.40	3.25
KPL-104200-20	895177	4 way	3	5.30	5.00	6.10	5.80

Chance 8-Way Expanding Anchors

			PRICE EACH			
Cat. No.	Stock No.		Eastern Zone		Western Zone	
			1-99	100 or more	1-99	100 or more
88100	894942		\$ 2.35	\$ 2.25	\$ 2.75	\$ 2.60
88115	894943		2.60	2.40	3.00	2.85
88135	894944		2.90	2.75	3.40	3.25
6860	895436		1.45	1.25	1.70	1.50
6870	895437		1.85	1.70	2.15	2.00

Chance Expanding Pole Key Anchor

P4817	895438		6.60	6.30	7.20	6.90
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Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Kearney Malleable Iron Expansion Anchors

***NET PRICE EACH**

Cat. No.	Stock No.	Eastern Zone		Western Zone	
		1-99	100 & Over	1-99	100 & Over
37533	890074	\$ 1.70	\$ 1.60	\$ 1.95	\$ 1.84
6076	890076	3.10	2.92	3.56	3.36
8090	890079	3.01	2.84	3.47	3.27
8110	890080	3.43	3.24	3.95	3.73
84090	890082	3.11	2.93	3.57	3.37
84110	890083	3.48	3.28	4.00	3.77
84125	890084	4.39	4.14	5.05	4.76

*Price does not include Anchor Rods

Hubbard Steelwing Anchors—Three Hubeye

NET PRICE EACH

Cat. No.	Stock No.	Eastern Zone		Western Zone	
		1-99	100 or more	1-99	100 or more
7524	890053	\$ 2.59	\$ 2.42	\$ 2.89	\$ 2.69
7526	890054	3.87	3.46	4.14	3.87
7527	890055	6.00	5.78	6.76	6.36
7528	890056	6.57	6.19	7.44	6.96

Hubbard Hubeye Anchor Rods

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8405	894005	10	\$ 98.46	\$100.06	\$107.26
8406	894006	10	110.82	112.70	121.12
8407	894007	10	123.17	125.32	134.98
8415	894008	10	135.03	137.51	148.59
8416	894009	10	154.78	157.71	170.85
8417	894010	10	174.53	177.92	193.11
8418	894011	5	194.28	198.13	215.38

Prices on other sizes available on request.

Hubbard Copperweld Ground Rod Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Zone 1			Zone 2			Zone 3		
		Less 10 Pieces	10-99	100 or over	Less 10 Pieces	10-99	100 or over	Less 10 Pieces	10-99	100 or over
Type A										
9490	891956	\$25.90	\$22.10	\$21.20	\$26.60	\$22.70	\$21.80	\$26.80	\$22.90	\$22.10
9491	891957	42.20	35.90	34.50	43.40	37.10	35.60	43.80	37.60	36.00
9492	891958	59.10	50.30	48.20	60.80	52.00	49.90	61.30	52.50	50.40
9590	891962	25.90	22.10	21.20	26.60	22.70	21.80	26.80	22.90	22.10
9591	891963	42.20	35.90	34.50	43.40	37.10	35.60	43.80	37.60	36.00
9592	891964	59.10	50.30	48.20	60.80	52.00	49.90	61.30	52.50	50.40
Type B										
6490	891968	16.90	14.10	13.50	17.20	14.50	13.80	17.30	14.60	13.90
6491	891969	28.70	23.90	22.80	29.40	24.70	23.60	29.80	25.00	23.80
6492	891970	41.40	34.60	33.10	42.60	35.90	34.30	43.10	36.40	34.70
6590	891972	16.90	14.10	13.50	17.20	14.50	13.80	17.30	14.60	13.90
6591	891973	28.70	23.90	22.80	29.40	24.70	23.60	29.80	25.00	23.80
6592	891974	41.40	34.60	33.10	42.60	35.90	34.30	43.10	36.40	34.70

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 12-1-56

Hubbard Copperweld Ground Rods

PRICES PER 100 PIECES

Cat. No.	Stock No.	Zone 1			Zone 2			Zone 3		
		Less 10 Pieces	10-99	100 or over	Less 10 Pieces	10-99	100 or over	Less 10 Pieces	10-99	100 or over
7775	891937	\$ 96.40	\$ 87.80	\$ 85.10	\$102.10	\$ 93.50	\$ 90.80	\$104.20	\$ 95.60	\$ 92.90
7776	891938	111.40	101.30	97.90	118.40	108.30	104.90	120.90	110.80	107.40
7795	891939	180.30	162.30	156.30	190.00	172.00	166.00	193.50	175.50	169.50
7796	891940	207.40	186.20	179.20	219.00	197.80	190.80	223.30	202.10	195.10
7797	891941	234.70	210.20	202.10	248.30	223.80	215.70	253.20	228.78	220.60
7798	891942	261.70	234.20	224.90	277.40	249.90	240.60	283.10	255.60	246.30
9415	891908	71.90	63.30	60.60	77.50	68.90	66.20	79.50	70.90	68.20
9416	891909	86.90	76.80	73.40	93.80	83.70	80.30	96.10	86.00	82.60
9388	891911	117.60	103.80	99.30	126.40	112.60	108.10	129.70	115.90	111.40
9425	891912	152.30	134.20	128.38	161.70	143.60	137.70	165.10	147.00	141.10
9426	891913	179.40	158.20	151.20	190.80	169.60	162.60	195.00	173.80	166.80
9427	891914	206.70	182.10	173.90	202.20	195.60	187.40	225.00	200.40	192.20
9428	891915	233.70	206.10	196.80	249.20	221.60	212.30	254.80	227.20	217.90
9435	891918	213.00	188.00	179.60	227.30	202.30	193.90	232.30	207.30	198.90
9436	891919	251.90	222.40	212.40	269.10	239.60	229.60	275.20	245.70	235.70
9437	891920	291.30	256.90	245.60	311.30	276.90	265.60	318.40	284.00	272.70
9438	891921	330.30	291.30	278.40	353.20	314.20	301.30	361.20	322.20	309.30

Other prices on application

Hubbard Steel Ground Rods

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
With Wire					
9505	891952	10.....	\$102.69	\$104.25	\$111.23
9506	891953	10.....	115.40	117.26	125.59
9516	891954	10.....	160.09	162.83	175.16
Less Wire					
9555	891943	10.....	47.74	48.60	52.51
9556	891944	10.....	55.53	56.80	61.31
9565	891945	10.....	72.71	74.17	80.75
9566	891946	10.....	85.30	87.07	95.00
9567	891947	10.....	97.88	99.95	109.25

Reliable Ground Rod Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Less than 10	10-99	100 or more
E-48	891760	100.....	\$23.75	\$22.55	\$21.35
E-58	891762	100.....	33.90	32.25	30.55
E-68	891764	100.....	37.70	35.85	33.95
S-48	891761	100.....	17.92	17.02	16.13
S-58	891763	50.....	21.18	20.12	19.06
S-68	891765	50.....	22.81	21.67	20.53

Station Ground Clamps

No. 1	Stock No.	100.....	1-499	500 or more
	891759		\$15.75	\$15.00

Kling Klamps

K-48	891766	100.....	Less than 10	10-99	100 or more
			\$24.73	\$23.50	\$22.26
K-58	891767	100.....	29.39	27.92	26.45

Cross-Over Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8930	891696	50.....	\$80.82	\$81.54	\$84.77

Cancelling Sheet Dated: 6-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Guy Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
7460	891712	20.....	\$184.66	\$186.81	\$196.42
7461	891713	25.....	78.61	79.91	85.65
7462	891714	50.....	55.69	57.76	60.12
7464	891715	20.....	109.95	111.70	119.50
7447	891716	100.....	21.35	21.65	23.03
7448	891717	50.....	38.54	39.12	41.73
7449	891718	50.....	51.79	52.59	56.16
7450	891719	25.....	65.38	66.46	71.31
7401	891720	100.....	21.35	21.65	23.03
7402	891721	50.....	34.87	36.04	37.44
7403	891722	50.....	49.92	51.71	53.80
7404	891723	..... discontinued			
7445	891724				

Guy Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
J1061	891728	100.....	\$21.35	\$21.65	\$23.03
J1030	891729	50.....	38.54	39.12	41.73
J930	891730	25.....	65.38	66.46	71.31
J931	891731	25.....	78.61	79.91	85.65
J933	891733	20.....	109.95	111.70	119.50

Crosby Clips

PRICES PER 100 PIECES

Cat. No.	Stock No.	Price
J1038	891739.....	\$36.00
J1039	891740.....	37.00
J1040	891741.....	41.00
J1041	891742.....	45.00
J1042	891743.....	48.00
J1043	891744.....	56.00

Hubbard Wire Rope Clips

PRICES PER 100 PIECES

Cat. No.	Stock No.	Price
8480	891749.....	\$12.71
8481	891750.....	14.15
8482	891751.....	19.58
8484	891752.....	25.16
8485	891753.....	33.32

Kearney Grade Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Price
7551	891703.....	\$133.70
7551-1	891704.....	137.00
7551-2	891705.....	141.20

TO DETERMINE YOUR COST ON POLE LINE HARDWARE

Prices as shown are based upon ordering in standard package quantities. If less than standard package quantities are ordered add 15% to the price.

Diamond Cable Lashing Clamp

PRICE PER 100 PIECES

Cat. No.	Stock No.	Price
900	895032.....	\$20.24

Cable Suspension Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8901	891694 (1 Bolt)	100.....	\$20.61	\$20.95	\$22.51
8903	891695 (3 Bolt)	25.....	62.07	63.06	67.48

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Corner Cable Suspension Clamps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8902	894473	20.....	\$183.48	\$185.33	\$193.65

Servisleeves

7451	891787	1000.....	6.32	6.33	6.79
7452	891788	1000.....	6.32	6.33	6.79
7453	891789	1000.....	6.32	6.33	6.79

Span Clamps

PRICE PER 100 PIECES

869	895024.....			\$33.60	
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Guy Wire Protectors

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
7657	891980 7'	2.....	\$383.22	\$388.71	\$413.36
7658	891981 8'	2.....	408.90	415.31	444.07
27657	891982 7'	2.....	462.09	469.42	502.29
27658	891983 8'	2.....	490.24	498.48	535.45

Cable Suspension Screws and Clamps

8966	895408	100.....	51.10	51.70	54.37
PA-166	895407	200.....			
			Standard Package \$20.30	Less Standard Package \$22.80	
PA-166A	895785	200.....	20.30	22.80	
J8236-B	895439	30.....	78.96	79.93	84.24
J8235-C	895440	20.....	131.27	132.79	139.55

Universal Messenger Hangers

8911	891795	20.....	116.98	118.47	125.15
8912	891796	25.....	89.60	90.73	95.83

Non-Breakable Messenger Hangers

8914	891793	50.....	123.67	124.55	128.48
8915	891794	50.....	124.85	125.65	129.31

Curved Lift Plates

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8887	891811	100.....	\$ 25.22	\$ 25.65	\$ 27.56
8888	891812	50.....	30.81	31.39	34.02
8889	891813	50.....	33.14	34.79	36.74
8897	891815	100.....	25.22	25.65	27.56
8898	891816	50.....	30.81	31.39	34.02
8899	891817	50.....	37.36	38.03	41.00

Guy Shims

7571	891808	100.....	14.06	14.38	15.81
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Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 12-1-56

Storm Guy Hooks

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
6001	891803	50	\$ 44.27	\$ 45.50	\$ 46.99
6002	891804	50	60.10	61.11	65.31
6004	891805	100	24.50	24.88	26.51

Reinforcing Links

8919	891806	50	80.36	81.70	83.33
8929	891807	50	101.81	102.43	105.17

Guy Hooks

7583-1/2	891799	200	11.04	11.22	12.02
7584	891800	100	24.00	24.37	26.00
7585	891801	100	17.08	17.36	18.62
7586	891802	100	24.00	24.39	26.19

Hub Guards

7101	891790	5	242.99	247.75	269.12
7102	891791	2	on application		
7103	891792	2	828.93	846.91	884.14

Reinforcing and Safety Straps

8905	891725	250	18.55	18.78	19.84
8906	891726	100	59.93	60.85	61.89
8907	891727	50	101.78	103.21	104.86

Hubbard Strain Plates

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
7575	891847	100	\$ 20.53	\$ 20.93	\$ 22.70
7576	891848	100	24.61	25.01	26.78

Hubbard Flat Lift Plates

8891	891814	50	37.37	39.22	41.41
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Hubbard Load or Breast Plates

8877	891809	50	30.34	31.80	33.50
8878	891810	50	on application		

Hubbard Hook Type Strain Plate

7577	891849	50	63.70	64.37	67.36
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(Premax Letters and Figures and Escutcheon Pins—Price on application)

Square Washers

7811	892051	500	3.44	3.50	3.78
7812	892052	500	3.44	3.50	3.78
7812-1/2	892053	250	4.20	4.27	4.60
7813	892054	250	5.99	6.10	6.63
7813-1/2	892055	250	5.99	6.10	6.63
7814	892056	250	5.99	6.10	6.63
7816	892057	100	11.56	11.80	12.82
7817	892058	100	13.81	14.10	15.40

Prices on other sizes available on request.

Curved Washers

7822	892048	250	7.96	8.09	8.74
7823	892049	100	14.00	14.30	15.66
7824	892050	100	22.03	22.38	24.01
7825	891872	100	16.40	16.77	17.65

Cancelling Sheet Dated: 11-1-55

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Round Washers

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
7801	892043	5000.....	\$ 1.00	\$ 1.01	\$ 1.03
7802	892044	2500.....	1.41	1.43	1.49
7803	892045	1500.....	1.99	2.01	2.09
7805	892046	1000.....	3.78	3.81	3.99
7806	892047	500.....	4.58	4.63	4.87

PAGE 12m

Pole Dating Nails

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
	891818	1000.....	\$ 3.30	\$ 3.36	\$ 3.41

Machine and Cross Arm Bolts

9603	891566	500.....	5.46	5.51	5.75
9603-1/2	891567	500.....	5.81	5.88	6.16
9604	891568	500.....	6.17	6.24	6.54
9604-1/2	891569	500.....	6.45	6.53	6.87
9605	891570	250.....	6.94	7.02	7.40
9605-1/2	891571	250.....	7.30	7.40	7.82
9606	891572	250.....	7.67	7.77	8.23
9704-1/2	891573	200.....	11.01	11.16	11.85
9705	891575	200.....	11.79	11.94	12.69
9706	891576	200.....	12.60	12.79	13.60
9707	891577	100.....	16.89	17.12	18.09
9708	891578	100.....	17.84	18.07	19.15
9710	891579	100.....	19.74	20.03	21.28
9712	891580	100.....	21.73	22.05	23.49
9714	891581	100.....	23.73	24.10	25.71
9806	891585	100.....	20.66	20.98	22.35
9807	891586	100.....	22.25	22.60	24.16
9808	891587	100.....	23.79	24.17	25.87
9810	891588	50.....	26.82	27.26	29.23
9812	891589	50.....	29.94	30.44	32.74
9814	891590	50.....	33.04	33.62	36.26
9816	891591	50.....	36.20	36.87	39.86
9818	891592	35.....	39.32	40.06	43.39

Prices on other sizes available upon request.

Bolts for Telephone Brackets

9232	891222	.....	6.28	6.31	6.46
9233	891223	.....	7.97	8.07	8.28
9603	891566	500.....	5.46	5.51	5.75
9605-1/2	891571	250.....	7.30	7.40	7.82

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Lag Screws

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9722	891990	2000.....	\$ 4.09	\$ 4.10	\$ 4.15
9722-1/2	891991	2000.....	4.41	4.42	4.49
9732	891992	1000.....	4.55	4.57	4.67
9732-1/2	891993	1000.....	4.87	4.89	5.01
9733	891994	1000.....	5.34	5.37	5.51
9733-1/2	891995	500.....	5.79	5.84	5.99
9742-1/4	891996	1000.....	4.96	4.99	5.15
9742-1/2	891997	1000.....	5.09	5.12	5.31
9743	891998	1000.....	5.46	5.51	5.70
9743-1/2	891999	500.....	5.87	5.91	6.18
9744	892000	500.....	6.23	6.29	6.55
9744-1/2	892001	500.....	6.60	6.66	6.95
9745	892002	500.....	6.98	7.06	7.37
9752-1/2	892003	500.....	6.96	7.02	7.34
9753	892004	250.....	7.27	7.35	7.75
9753-1/2	892005	250.....	7.86	7.96	8.39
9754	892006	250.....	8.44	8.54	9.00
9754-1/2	892007	250.....	9.00	9.11	9.58

Prices on other sizes available upon request.

TO DETERMINE YOUR COST ON POLE LINE HARDWARE

Prices as shown are based upon ordering in standard package quantities. If less than standard package quantities are ordered add 15% to the price.

Carriage Bolts

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9633	891552	500.....	\$ 4.91	\$ 4.98	\$ 5.22
9633-1/2	891553	500.....	5.34	5.41	5.72
9634	891554	500.....	5.68	5.76	6.07
9634-1/2	891555	250.....	6.07	6.14	6.47
9635	891556	250.....	6.49	6.57	6.98
9635-1/2	891557	250.....	6.85	6.96	7.37
9636	891558	250.....	7.23	7.33	7.77

Prices on other sizes available upon request.

Double Arming Bolts

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9844	891610	50.....	\$ 30.76	\$ 31.20	\$ 33.13
9846	891611	50.....	33.23	33.70	35.84
9848	891612	50.....	35.55	36.04	38.25
9850	891613	50.....	38.09	38.65	41.16
9852	891614	50.....	40.70	41.32	44.16
9854	891615	50.....	43.16	43.83	46.87
9864	891617	50.....	44.67	45.30	48.21
9866	891618	25.....	47.98	48.68	51.88
9868	891619	25.....	51.31	52.09	55.58
9870	891620	25.....	54.65	55.49	59.31

Prices on Pole Line Hardware not listed are available upon request.

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Hubbard Straight and Angle Hubeye Bolts

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9058 Str.	891630	50.....	\$ 51.48	\$ 52.07	\$ 54.69
9060 Str.	891631	50.....	55.01	55.68	58.67
9062 Str.	891632	50.....	58.54	59.27	62.59
9064 Str.	891633	25.....	62.08	62.88	66.52
9150 Angle	891637	50.....	53.50	54.13	56.94
9151 Angle	891638	50.....	57.02	57.71	60.84
9152 Angle	891639	50.....	60.53	61.31	64.72
9153 Angle	891640	25.....	64.06	64.88	68.62

Extra Nuts Only

894148	1/2"	100.....	4.07	4.10	4.27
894468	5/8"	100.....	7.07	7.15	7.44
894484	3/4"	100.....	10.75	10.86	11.35

Drop Forged Angle Bolt Hubeyes

1100	891844	50.....	54.13	54.67	57.02
1101	891845	50.....	54.13	54.67	57.02

Drop Forged Hubeye Nuts

7509	891826	1/2" 50.....	48.16	48.56	50.33
7510	891827	3/8" 50.....	48.16	48.56	50.33
7511	891828	3/4" 50.....	53.82	54.19	55.88
7512	891829	1" 50.....	88.50	90.66	93.19

Drop Forged Straight Bolt Hubeyes

7519	891837	3/8" 50.....	70.24	70.79	73.21
7520	891838	3/4" 50.....	70.24	70.79	73.21

Telephone Distributing Brackets

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9200	891226	100.....	\$ 16.80	\$ 17.07	\$ 18.22
9202	891227	100.....	23.01	23.44	25.37

Corner Brackets

9204	891228	100.....	28.84	29.13	30.50
9205	891229	100.....	30.61	30.96	32.57

Hubbard Drive Hook and Screw Hook

1316	894978	200.....	15.91	16.04	16.59
1317	894979	500.....	7.92	7.96	8.18

Kearney House and Pole Hooks

PRICE PER 100

Cat. No.	Stock No.	Less than 500	500 or more
8031	893048	\$14.10	\$ 13.45
6766-1	893049	10.45	9.95
6766-3	893050	18.15	17.30

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Hubbard U-Cable Guards

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
7531	891875	5.....	\$141.24	\$149.72	\$160.80
7532	891876	5.....	204.30	207.87	223.89
7533	891877	5.....	294.63	300.30	325.73
7534	891878	5.....	288.12	293.07	315.24
7535	891879	2.....	409.99	418.40	456.15

U-Cable Guard Straps

7538	891880	500.....	10.02	10.12	10.53
7539	891881	200.....	12.94	13.10	13.81
7540	891882	100.....	33.60	33.97	35.64

Guy Thimbles

7593	892065	500.....	9.99	10.04	10.25
7594	892066	250.....	13.53	13.62	14.09
7595	892067	100.....	20.51	20.71	21.58

Insulated Clevises (Less Insulators)

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
1343	891247 (Uses No. 1606 Insulator)	50.....	\$ 33.70	\$ 34.15	\$ 36.11
561	891250 (Uses No. 355 Insulator)	50.....	55.63	56.38	59.75
641	891248 (Uses No. 357 Insulator)	100.....	67.41	68.14	71.43
8820	891249 (Uses No. 357 Insulator)	100.....	54.17	54.84	57.83

Insulators for Use With Above Clevises

355	895135	50.....	17.10	18.00	19.60
357	895136	50.....	9.00	9.30	9.80
1606	894644	100.....	10.30	10.70	11.20

Insulated Fork Bolts (Less Insulators)

8810	891241 (Uses No. 357 Insulator)	50.....	78.66	80.92	83.55
8811	891242 (Uses No. 357 Insulator)	50.....	82.51	84.96	87.73
8812	891243 (Uses No. 357 Insulator)	50.....	88.50	89.30	91.00
8813	891244 (Uses No. 357 Insulator)	50.....	89.96	92.88	96.22
8814	891245 (Uses No. 357 Insulator)	50.....	97.06	98.41	100.73
8815	891246 (Uses No. 357 Insulator)	25.....	104.10	105.18	105.24

Joslyn Upset Spool Bolts (Less Insulator)

J-2342-1/2	895444 (Uses No. J101 Insulator)	50.....	53.53	54.18	57.05
J-2343-1/2	895445 (Uses No. J101 Insulator)	50.....	55.14	55.83	58.91
J-2344-1/2	895446 (Uses No. J101 Insulator)	50.....	56.57	57.29	60.59

Insulator For Above

J-101	895447	50.....	15.50	16.39	17.78
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Chance Terminal Bracket (Less Insulator)

H-14	894470	100.....	23.83	25.01	25.79
H-24	894471 (Insulator for above)	100.....	12.70	13.20	13.80

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Hubbard Dead End Bracket (Less Insulator)

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
2944	895013	100.....	\$23.82	\$25.00	\$25.78
1663	894921 (Insulator for above)	50.....	15.85	16.55	16.94

Reliable Strandvises

PRICE PER 100 PIECES

Cat. No.	Stock No.	Strand Size	Less Than Carton (1-24)	Carton Quantity (25)	Standard Package (100)
5099	895786	3/16"	\$110.00	\$105.00	\$ 99.00
5100	895040	1/4"	114.00	108.00	103.00
5101	894957	5/16"	134.00	127.50	120.50
5102	894958	3/8"	165.00	157.00	148.50
5103	895755	7/16"	195.50	186.00	176.00
5149	895787	3/8"	113.00	108.00	102.00
5150	895041	1/4"	118.00	112.00	106.00
5151	894959	5/16"	147.00	140.00	132.50
5152	894960	3/8"	179.00	170.00	161.00
5153	895756	7/16"	220.00	209.00	198.00
9055	894963	Pulling Hook for all Strandvises.....	1.40 each		
5171	895757	5/16" Universal Bail Strandvise.....	188.25	178.85	169.45
5172	895758	3/8"	220.00	209.00	198.00
5175	895759	3/8" with Flexible Bail.....	205.90	195.60	185.30
5176	895760	3/8"	249.40	236.95	224.45

Reliable Strandlinks

4999	895788	3/16"	103.00	98.00	93.00
5000	895039	1/4"	105.00	99.00	94.50
5001	894961	5/16"	121.00	115.00	109.00
5002	894962	3/8"	141.50	135.00	128.50
5003	895761	7/16"	179.00	170.00	161.00
5022	895762	3/8"-3/16" Reducer.....	155.00	146.00	139.00
5023	895763	7/16"-3/8" Reducer.....	193.00	184.00	175.00

Preformed Guy-Grips

PRICE EACH

Cat. No.	Size	Stock No.	Price
20GDE	3/16"	895933	.40
23GDE	7/32"	895934	.45
25GDE	1/4"	895935	.55
28GDE	5/32"	895936	.60
30GDE	3/16"	895937	.75
35GDE	3/8"	895938	.85
38GDE	7/16"	895939	1.45
40GDE	1/2"	895940	1.80
45GDE	5/8"	895941	2.30

Preformed Splices

PRICE EACH

Cat. No.	Size	Stock No.	Price
27GLS	3/16"	895942	.72
29GLS	7/32"	895943	.75
35GLS	1/4"	895944	.99
38GLS	5/32"	895945	.99
42GLS	3/16"	895946	1.26
50GLS	3/8"	895947	1.66
56GLS	7/16"	895948	2.32
63GLS	1/2"	895949	3.23
70GLS	5/8"	895950	4.02

Preformed Splices

Cat. No.	Stock No.	Price
10GLS-083	895920	.24
22GLS-083	895921	.31
12GLS-109	895922	.27
24GLS-109	895923	.35
14GLS-134	895924	.41
26GLS-134	895925	.50

Preformed Dead Ends

Cat. No.	Stock No.	Price
11GDE-083	895917	.16
12GDE-109	895918	.20
13GDE-135	895919	.25

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Crossover Brackets			PRICES PER 100 PIECES		
Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
2384	891533	1.....	\$237.30	\$244.72	\$253.31
2385	891534	5.....	687.23	708.71	733.60
Pole Steps					
7123	891263	100.....	21.87	22.20	23.70
7124	891264	100.....	24.37	24.76	26.51
7125	891265	100.....	26.00	26.44	28.36
7126	891266	50.....	36.14	37.43	38.97
7129	891268	100.....	32.45	32.96	35.21
Braces-Side Extension Fixtures					
8050	891529	Diagonal 1.....	517.07	526.00	566.06
8051	891530	Back 1.....	348.87	355.65	386.04
8052	891531	Back 1.....	409.09	417.10	453.05
8054	891532	Vertical 1.....	207.30	210.59	225.39

Flat Cross Arm Braces			PRICES PER 100 PIECES		
Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8020	891487	20.....	\$ 30.40	\$ 30.99	\$ 33.67
8022	891488	20.....	33.20	33.86	36.82
8024	891489	20.....	36.00	36.72	39.95
8026	891490	20.....	38.78	39.56	43.06
8028	891491	20.....	41.63	42.48	46.28
8030	891492	20.....	44.47	45.38	49.50
8032	891493	20.....	47.30	48.29	52.70
8120	891494	20.....	34.80	35.58	39.07
8122	891495	20.....	37.89	38.74	42.54
8124	891496	20.....	40.98	41.89	46.00
8126	891497	20.....	44.06	45.05	49.45
8128	891498	20.....	47.15	48.21	52.93
8130	891499	20.....	50.23	51.35	56.38
8132	891500	20.....	53.32	54.51	59.86
Alley Arm Braces					
7979	891501	1.....	350.88	356.84	383.54
7981	891502	1.....	316.99	322.02	344.63
7982	891503	1.....	352.38	358.33	385.04
7983	891504	1.....	398.55	415.70	435.56
7984	891505	1.....	435.66	443.68	479.63
7985	891506	1.....	859.71	875.73	947.63

Vertical Braces }
 Cross Arm Back Braces } Prices on application
 Angle Cross Arm Braces }
 E.E.I. Standard Braces }

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Point Type Transposition Brackets

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9272-LT	894392	5.....	\$314.64	\$328.93	\$338.44
9273-LT	894393	5.....	314.64	328.93	338.44
9272	894390	5.....	286.05	300.34	309.87
9273	894391	5.....	286.05	300.34	309.87

Aluminum Point Transposition Brackets

SE-1611	895441	20.....			\$3.10 each
SE-1590	895442	20.....			3.10 each

Crossarm Point Type

SE-1648	895764	10.....			3.10 each
SE-1780	895765	10.....			3.10 each

Aluminum Transposition Brackets

PM-101	895178	20.....			1.96 each
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Transposition Brackets

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
J-18	891545	1.....	\$ 68.01	\$ 68.57	\$ 71.12
J-19	891546	1.....	94.46	95.30	99.07
J-20	891547	1.....	232.22	233.48	239.15
J-21	891548	1.....	410.31	412.63	423.02

One-Piece Transposition Brackets

9260	894710	20.....	139.95	141.40	147.76
9261	894711	20.....	142.01	143.47	150.05
9262	894712	5.....	445.87	450.27	469.99

Pole Bracket

152	891541	25	106.99	108.14	113.22
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Standard Transposition Brackets

9249	891549	25.....	75.06	76.16	81.09
9251	891550	25.....	75.41	76.57	81.70

Pressed Steel Pole Brackets

137	891540	95.96	97.77	99.85
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Tandem Transposition Brackets

9277	894713	10.....	59.14	60.45	66.13
9278	894714	10.....	95.79	97.17	103.33

Carriage Bolt Especially for Above

9676	895033	100.....	19.76	20.06	21.40
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Issue Date: 4-15-57

Hubbard Pinch Bracket

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9288	897189	.....	\$ 92.24	\$ 93.35	\$ 98.35

Hubbard Steel Insulator Pins—Hot Galvanized

8061	897191	41.01	41.50	42.49
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Western Union Steel Pins

8000	891298	100.....	29.44	29.76	31.20
8005	891299	50.....	46.03	46.50	48.68
8010	891302	100.....	28.68	28.90	29.82
8011	891305	100.....	41.23	41.83	42.52
8012	897190	.....	44.55	44.84	46.17
8015	891303	100.....	44.55	44.84	46.17
8016	891306	.....	44.55	44.84	46.17

"Prices on Pole Line Hardware not listed available on request"

Hubbard Transposition Brackets

9289	897188	141.94	143.71	151.62
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Wood Top Pins with Steel Bolts

Prices on all sizes available on application.

Pole Balconies—Hot Galvanized

PRICE PER HUNDRED

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
9035	891850	.....	5576.01	5654.01	5744.38

Pole Seats

755	891851	5.....	609.97	624.82	642.01
757	891852	5.....	on application		

Chance Utility Platform

PRICE EACH

M4950	897187	\$37.75		
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STROMBERG-CARLSON

SECTION N POLES—CROSS ARMS—BRACKETS

Issue Date: 12-1-56

PAGE 4n

Poles
Prices on application

PAGE 5n

Cross Arms—Electric Light Arms (3¼ x 4¼ inches)

Stock No.	Length Ft.	Ptn Holes	PRICE PER 100 ARMS		
			F.O.B. Chicago New Orleans	F.O.B. Kansas City Minn. Transfer	F.O.B. Cincinnati, O. Baltimore
891140.....	3	2	\$142.28	\$140.18	\$145.16
891141.....	4	4	189.70	186.90	193.55
891142.....	5	4	237.13	233.63	241.94
891143.....	6	4	284.56	280.35	290.33
891144.....	6	6	284.56	280.35	290.33
891145.....	8	6	393.40	387.81	401.10
891146.....	8	8	393.40	387.81	401.10
891147.....	8½	10	442.58	436.28	451.24
891148.....	10	8	491.75	484.76	501.38
891149.....	10	10	491.75	484.76	501.38

Pony Telephone Arms (2¾ x 3¾ inches)

Stock No.	Length Inches	Ptn Holes	PRICE PER 100 ARMS		
			F.O.B. Chicago New Orleans	F.O.B. Kansas City Minn. Transfer	F.O.B. Cincinnati, O. Baltimore
891153.....	42	4	155.20	153.07	158.14
891154.....	62	6	232.80	229.60	237.20
891155.....	82	8	271.60	267.87	276.74
891156.....	102	10	349.20	344.40	355.81
891157.....	120	12	388.00	382.67	395.34

Yellow Pine Arms — Prices on Application

Wood Pins and Brackets

Locust Pins

Stock No.	Size	Standard Package	PRICES PER 100 PIECES								
			Chicago, Ill.			Kansas City, Mo.			Rochester, N. Y.		
			Std. Pkg.	250 to 4999	5000 and Over	Std. Pkg.	250 to 4999	5000 and Over	Std. Pkg.	250 to 4999	5000 and Over
891293	1 ¼ x 8 x 1"	(250)	\$ 8.54	\$ 7.90	\$ 6.83	\$ 8.82	\$ 8.16	\$ 7.06	\$ 8.37	\$ 7.74	\$ 6.69
891294	1 ½ x 9 x 1"	(250)	11.95	11.05	9.56	12.37	11.44	9.89	11.70	10.82	9.36

Oak Brackets and Pole Steps

Stock No.	Size	Standard Package	PRICES PER 100 PIECES								
			Chicago, Ill.			Kansas City, Mo.			Rochester, N. Y.		
			Std. Pkg.	250 to 4999	5000 and Over	Std. Pkg.	250 to 4999	5000 and Over	Std. Pkg.	250 to 4999	5000 and Over
891281	4	(20)	\$ 6.92	\$ 6.40	\$ 5.53	\$ 7.43	\$ 6.88	\$ 5.95	\$ 6.59	\$ 6.10	\$ 5.27
891282	LD	(25)	9.19	8.50	7.35	9.88	9.14	7.90	8.76	8.10	7.01
891283	WU	(20)	12.46	11.52	9.97	13.32	12.32	10.66	11.92	11.03	9.54
891284	NEW WU	(20)	14.06	13.01	11.25	15.06	13.93	12.05	13.45	12.44	10.76

Cancelling Sheet Dated: 6-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 12-1-56

Pole Steps and Corner Pins

PRICES PER 100 PIECES

Cat. No.	Stock No.	Std. Package	F.O.B. Chicago	F.O.B. Kansas City	F.O.B. Rochester
			Std. Pkg. to 5000	Std. Pkg. to 5000	Std. Pkg. to 5000
J2662	891269	20	\$6.34	\$6.90	\$5.99

Locust Pin Bushings

PRICES PER 100 PIECES

Cat. No.	Stock No.	F.O.B. Kansas City and Chicago			F.O.B. Rochester		
		Less than 1000	1000 to 5000	5000 and Over	Less than 1000	1000 to 5000	5000 and Over
1 1/8"	895184.....	\$41.00	\$38.00	\$32.75	\$40.25	\$37.25	\$32.25
3/8"	895159.....						

Carbolineum

891279..... Prices on application

C-A Wood Preserver

891280..... Prices on application

Bracket Straps

PRICES PER 100 PIECES

Cat. No.	Stock No.	Standard Package	Zone 1	Zone 2	Zone 3
8065	891285	250.....	\$10.23	\$10.37	\$10.56
8066	891286	250.....	11.09	11.34	11.66
8067	891287	250.....	10.84	10.96	11.50
8068	891288	500.....	8.83	8.91	9.22
8089	891289	250.....	10.23	10.37	10.56
8090	891290	250.....	4.90	4.92	5.06
8098	891291	250.....	10.09	11.19	11.60
8099	891292	250.....	4.90	4.92	5.60
J2562	894663	250.....	8.04	8.14	8.56
J2563	894664	200.....	10.09	10.23	11.60

(Western and Pacific Coast Prices slightly higher).

Cancelling Sheet Dated: 6-1-56

All prices subject to change without notice

STROMBERG-CARLSON

SECTION P CABLE, CABLE SUPPLIES

Issue Date: 4-15-57

PAGE 3p

Regular Lead Sheath—Single Paper Wrap

Number of Pairs	26 AWG Type 26-S-85 .085 MC			24 AWG Type 24-S-90 .09 MC			22 AWG Type 22-S-90 .09 MC			19 AWG Type 19-S-90 .09 MC		
	Sheath in Inches	List Price Per 1000'	Shpg. Wt. Per 1000'	Sheath in Inches	List Price Per 1000'	Shpg. Wt. Per 1000'	Sheath in Inches	List Price Per 1000'	Shpg. Wt. Per 1000'	Sheath in Inches	List Price Per 1000'	Shpg. Wt. Per 1000'
6	—	—	—	—	—	—	—	—	—	.063	\$217.10	500
11	.061	\$143.50	340	.061	\$164.70	370	.063	\$213.50	480	.065	306.00	675
16	.061	164.70	370	.062	200.60	430	.064	258.20	580	.067	392.90	835
26	.063	215.30	480	.064	258.20	530	.066	346.50	735	.070	543.50	1100
51	.065	316.50	690	.067	397.60	800	.070	553.50	1095	.075	891.20	1635
76	.067	411.20	890	.069	523.50	1020	.073	737.60	1380	.080	1254.10	2325
101	.069	507.10	1080	.071	646.50	1200	.076	921.20	1660	.084	1590.60	2805
152	.072	694.10	1450	.075	896.50	1620	.080	1275.90	2320	.090	2237.10	3870
202	.074	855.30	1690	.078	1118.20	1950	.084	1612.40	2740	.095	2900.00	5040
303	.078	1178.20	2250	.082	1565.90	2650	.091	2286.50	3900	.104	4158.80	6975
404	.082	1479.40	2570	.087	1988.20	3285	.095	2932.90	4750	.112	5385.30	9075
455	—	—	—	—	—	—	—	—	—	.115	6065.00	10015
606	.088	2165.30	3680	.093	2932.90	4625	.104	4347.60	6845	—	—	—

1. Quantity Discounts—
- | | | | |
|--------------------------|---------------|----------------------|--------------|
| 2,500 feet and over | List Less 15% | 500 feet to 999 feet | List Less 5% |
| 1,000 feet to 2,499 feet | List Less 10% | 250 feet to 499 feet | List |
- The total quantity determines the price to apply.

Cable Reels will be charged extra but are returnable for full credit within one year after date of purchase. Write for shipping instructions before returning empty reels.

2. Delivery—Prices are f.o.b. Factory. For delivered prices see below.

STATE	Factor L.C.L.	Per C.W.T. C.L.	STATE	Factor L.C.L.	Per C.W.T. C.L.
Alabama	\$2.85	\$1.90	Nevada	\$3.05	\$2.90
Arizona	3.55	2.45	New Hampshire	1.50	.90
Arkansas	3.70	2.25	New Jersey	.85	.45
California	2.85	2.00	New Mexico	5.25	3.10
Colorado	4.45	2.85	New York:		
Connecticut	1.00	.70	New York City and		
Delaware	1.10	.70	Westchester County	.60	.30
District of Columbia	1.30	.75	Balance of State	1.30	.75
Florida	3.00	2.00	North Carolina	1.95	1.30
Georgia	2.60	1.65	North Dakota	3.95	2.50
Idaho	3.80	2.90	Ohio	2.20	1.10
Illinois	2.70	1.45	Oklahoma	3.90	2.45
Indiana	2.50	1.25	Oregon	3.00	2.30
Iowa	3.05	1.95	Pennsylvania	1.40	.70
Kansas	3.75	2.35	Rhode Island	1.30	.85
Kentucky	2.60	1.45	South Carolina	2.25	1.50
Louisiana	3.50	2.30	South Dakota	3.80	2.40
Maine	1.80	1.00	Tennessee	2.65	1.80
Maryland	1.30	.75	Texas	4.45	2.65
Massachusetts	1.30	.75	Utah	3.65	2.85
Michigan	2.35	1.30	Vermont	1.45	.90
Minnesota	3.30	2.10	Virginia	1.60	.90
Mississippi	3.05	2.05	Washington	3.00	2.30
Missouri	3.15	2.00	West Virginia	1.85	1.00
Montana	5.45	3.30	Wisconsin	2.75	1.65
Nebraska	3.80	2.45	Wyoming	4.85	3.05

Where delivered prices are required, multiply shipping weight per 1000 feet as indicated above by the factor per 100 lbs. shown opposite the State in which destination is located and add the resultant amount to the F.O.B. Factory price. CL factors are to be used only when total shipping weight of all items on an inquiry is not less than 30,000 lbs.

Cancelling Sheet Dated: 11-1-55

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Type 775-P Telephone Cable For Aerial or Duct Service

Total No. Pairs	Guar'd No. Pairs	Approx. Finish O.D.	Net Wt. Per M Ft.	Nominal Reel Length	Approx. Shpg. Wt. Per M Ft.	List Price Per M Feet Freight Allowed to Destination in United States
Size 24 AWG Copper Conductors						
11	11	.40"	87	5000'	95	\$ 108.00
16	15	.46"	112	5000'	128	141.00
26	25	.54"	159	5000'	178	203.00
51	50	.72"	277	3000'	315	367.00
76	75	.84"	384	2500'	448	528.00
101	100	.96"	500	2000'	580	691.00
152	150	1.24"	810	1000'	920	1,120.00
202	200	1.41"	1025	1000'	1140	1,455.00
303	300	1.64"	1427	1000'	1587	2,450.00
404	400	1.84"	1825	1000'	2030	3,218.00

Size 22 AWG Copper Conductors

11	11	.45"	113	5000'	129	129.00
16	15	.51"	145	5000'	167	184.00
26	25	.63"	223	5000'	246	252.00
51	50	.81"	382	3000'	420	465.00
76	75	.97"	548	2000'	603	660.00
101	100	1.09"	699	3000'	752	866.00
152	150	1.40"	1114	1000'	1274	1,385.00
202	200	1.57"	1416	1000'	1603	1,822.00
303	300	1.85"	2019	1000'	2324	2,850.00
404	400	2.10"	2611	1000'	2916	3,765.00

Size 19 AWG Copper Conductors

11	11	.55"	178	5000'	198	195.00
16	15	.65"	251	5000'	273	272.00
26	25	.79"	373	5000'	409	398.00
51	50	1.06"	685	2500'	749	745.00
76	75	1.27"	988	3000'	1055	1,130.00
101	100	1.45"	1298	3000'	1365	1,471.00
152	150	1.80"	1958	1000'	2168	2,217.00
202	200	2.01"	2519	1000'	2842	2,865.00
303	300	2.40"	3665	1000'	4070	3,985.00
404	400	2.73"	4820	1000'	5525	5,386.00

Type 611—Size 19 AWG Medium Hard Copper Conductors—Multiple Pair Self-Supporting Drop Cable

6	6	.46"	112	5000'	121	135.00
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QUANTITY DISCOUNT—Minimum Quantity Any One Item 250 Feet

250 feet to 499 feet.....	List
500 feet to 999 feet.....	List less 5%
1,000 feet to 2,499 feet.....	List less 10%
2,500 feet and over.....	List less 15%

Items on this sheet may be combined to obtain quantity discount.

DELIVERY: F.O.B. Factory, freight allowed to destination in the continental United States via freight or shipper's option, on shipments of 300 lbs. or more. No freight allowance on shipments of less than 300 lbs.

REELS Included in Prices are Non-Returnable.

TERMS: 1% 10 Days; Net 30 Days from Date of our Invoice.

Billing will be at price in effect at date of shipment.

All Prices, Terms and Conditions Subject to Change Without Notice.

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Type 775-AP Armored Telephone Cable For Direct Earth Burial

Total No. Pairs	Quart'd No. Pairs	Approx. Finish O.D.	Net Wt. Per M Ft.	Nominal Reel Length	Approx. Shpg. Wt. Per M Ft.	List Price Per M Feet Freight Allowed to Destination in United States
Size 24 AWG Copper Conductors						
11	11	.56"	182	4000'	204	\$ 196.00
16	15	.61"	216	3000'	242	237.00
26	25	.72"	290	3000'	327	328.00
51	50	.89"	443	3000'	481	519.00
76	75	1.02"	578	2500'	648	707.00
101	100	1.18"	761	2000'	841	911.00
152	150	1.49"	1185	1000'	1372	1,460.00
202	200	1.66"	1446	1000'	1633	1,831.00
303	300	1.89"	1918	1000'	2223	2,571.00
404	400	2.09"	2370	1000'	2675	3,282.00

Size 22 AWG Copper Conductors						
11	11	.62"	226	4000'	248	226.00
16	15	.68"	269	3000'	295	273.00
26	25	.80"	379	5000'	414	389.00
51	50	.98"	564	5000'	605	607.00
76	75	1.17"	786	4000'	837	839.00
101	100	1.31"	996	3000'	1063	1,064.00
152	150	1.65"	1532	1000'	1747	1,698.00
202	200	1.82"	1879	1000'	2099	2,140.00
303	300	2.11"	2567	1000'	2931	3,027.00
404	400	2.35"	3228	1000'	3838	3,944.00

Size 19 AWG Copper Conductors						
11	11	.72"	310	3000'	347	290.00
16	15	.83"	407	4000'	436	393.00
26	25	.98"	564	4000'	608	520.00
51	50	1.25"	942	4000'	1011	856.00
76	75	1.48"	1324	3000'	1437	1,208.00
101	100	1.68"	1706	2000'	1807	1,547.00
152	150	2.05"	2484	1000'	2686	2,347.00
202	200	2.26"	3117	1000'	3522	3,021.00
303	300	2.65"	4361	1000'	5186	4,295.00
404	400	2.98"	5616	1000'	6526	5,582.00

QUANTITY DISCOUNT—Minimum Quantity Any One Item 500 Feet

- 500 feet to 999 feet..... List
- 1,000 feet to 1,999 feet..... List less 5%
- 2,000 feet to 2,499 feet..... List less 10%
- 2,500 feet and over..... List less 15%

Items on this sheet may be combined to obtain quantity discount.

DELIVERY: F.O.B. Factory, freight allowed to destination in the continental United States via freight or shipper's option, on shipments of 300 lbs. or more. No freight allowance on shipments of less than 300 lbs.

REELS Included in Prices are Non-Returnable.

TERMS: 1% 10 Days; Net 30 Days from Date of our Invoice.

Billing will be at price in effect at date of shipment.

All Prices, Terms and Conditions Subject to Change Without Notice.

Canceling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

**Whitney Blake Telecable—Exchange Area Telephone Cable—Aerial & Duct Service—
Polyethylene Insulated—Polyethylene Jacketed—Shielded**

<u>Cat. No.</u>	<u>No. Total Pairs</u>	<u>Feet per Reel</u>	<u>Approx. O.D. Inches</u>	<u>Approx. Shpg. Wt. Lbs./M'</u>	<u>List Price per M'</u>
No. 24 AWG—Soft Bare Copper—Approved Under REA Spec. PE-14					
1201	11	5,000	.440	96	\$ 107.00
1202	16	5,000	.515	132	140.00
1203	26	5,000	.630	194	201.00
1204	51	2,500	.860	350	364.00
1205	76	2,500	1.010	523	516.00
1206	101	2,500	1.160	721	699.00
1207	152	2,500	1.390	1045	1,029.00
1208	202	1,000	1.580	1243	1,464.00
1209	303	1,000	1.650	1548	2,636.00
1210	404	1,000	1.910	2070	3,418.00

No. 22 AWG—Soft Bare Copper—Approved Under REA Spec. PE-14					
1231	11	5,000	.480	128	131.00
1232	16	5,000	.550	164	182.00
1233	26	5,000	.700	253	252.00
1234	51	2,500	.930	459	476.00
1235	76	2,500	1.100	673	664.00
1236	101	2,500	1.260	915	885.00
1237	152	2,500	1.520	1382	1,393.00
1238	202	1,000	1.750	1647	1,849.00
1239	303	1,000	2.020	2714	2,892.00
1240	404	1,000	2.270	3550	3,789.00

No. 19 AWG—Soft Bare Copper—Approved Under REA Spec. PE-14					
1261	11	5,000	.550	186	199.00
1262	16	5,000	.660	266	277.00
1263	26	5,000	.800	407	407.00
1264	51	2,500	1.080	751	753.00
1265	76	2,500	1.300	1109	1,169.00
1266	101	2,500	1.500	1463	1,519.00
1267	152	1,000	1.850	2210	2,289.00
1268	202	1,000	2.100	2633	2,984.00

Self-Supporting Multiple Drop Cable—Shielded No. 19 AWG—Medium Hard Drawn Bare Copper					
1281	6	5,000	.460	135	137.00

QUANTITY DISCOUNTS—2,500 feet and over List less 15%
 1,000 feet to 2,499 feet List less 10%
 500 feet to 999 feet List less 5%
 250 feet to 499 feet List

Items on this sheet may be combined to obtain quantity discount.

TERMS: ½ of 1%—10 days from date of invoice, net 30 days.

DELIVERY: F.O.B. Factory, freight prepaid and allowed to destination in the Continental United States via freight or shipper's option on shipments of 300 pounds or more. No freight allowance on shipments of less than 300 pounds.

REELS: Non-Returnable. No charge will be made for reels and no credit allowed if returned.

Issue Date: 4-15-57

**Whitney Blake Telecable—Inside Wiring Cable—Semi-Rigid Vinyl Insulated—
Brown or Ivory Vinyl Jacketed**

<u>Cat. No.</u>	<u>No. of Pairs</u>	<u>Feet per Reel</u>	<u>Approx. O.D. Inches</u>	<u>Approx. Shpg. Wt. Lbs./M'</u>	<u>List Price per M'</u>
No. 24 AWG—Soft Bare Copper Conductors					
1001	6	2,500	.31	59.....	\$ 60.00
1002	11	2,500	.37	93.....	101.00
1003	12	2,500	.38	98.....	116.00
1004	16	2,500	.42	122.....	135.00
1009	21	2,500	.48	152.....	163.00
1005	26	2,500	.52	183.....	202.00
1008	32	2,500	.49	216.....	284.00
1006	51	2,500	.71	338.....	386.00
1007	76	2,500	.84	482.....	599.00
No. 22 AWG—Soft Bare Copper Conductors					
1026	6	2,500	.32	70.....	72.00
1027	11	2,500	.40	116.....	123.00
1028	12	2,500	.41	123.....	142.00
1029	16	2,500	.46	156.....	167.00
1030	26	2,500	.57	237.....	256.00
1032	32	2,500	.65	308.....	303.00
1031	51	2,500	.78	464.....	486.00

QUANTITY DISCOUNTS—2,500 feet and over.....	List less 15%
1,000 feet to 2,499 feet.....	List less 10%
500 feet to 999 feet.....	List less 5%
250 feet to 499 feet.....	List

Items on this sheet may be combined to obtain quantity discount.

TERMS: ½ of 1%—10 days from date of invoice, net 30 days.

DELIVERY: F.O.B. Factory, freight prepaid and allowed to destination in the Continental United States via freight or shipper's option on shipments of 300 pounds or more. No freight allowance on shipments of less than 300 pounds.

DELIVERY: F.O.B. New Haven, Conn. Freight allowed.

REELS: Non-Returnable. No charge will be made for reels and no credit allowed if returned.

NOTE: Specify Brown or Ivory Jacket.

Ceeco Loading Coils and Cases _____ Prices on Application.

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Ceeco Terminal Loading Cases

Prices on Application.

Preformed Lashing Rods		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
LRGS-D	895889	\$.56
LRGS-E	895890	.56
LRGS-F	895891	.56
LRGS-G	895892	.56
LRGS-H	895893	.67
LRGS-I	895894	.67
LRGS-J	895895	.67
LRGS-K	895896	.67
LRGS-L	895897	.90
LRGS-M	895898	.90
LRGS-N	895899	1.21
LRGS-O	895900	1.21
LRGS-P	895901	1.21
LRGS-Q	895902	1.60
LRGS-R	895903	1.60

Preformed Line Guards **PRICE EACH**

<i>Cat. No.</i>	<i>Stock No.</i>	
18AMGT-380	895904	\$.63
20AMGT-450	895905	.84
22AMGT-560	895906	.95
24AMGT-680	895907	1.10
28AMGT-824	895908	1.89

Tangent Support Clamp

TSC-450	6 Pair	.45
TSC-560	11 Pair	.50
TSC-680	16 Pair	.50
TSC-824	26 Pair	.50

Plastic Line Guards **PER FOOT EACH**

<i>Size</i>	<i>Stock No.</i>	
1/2"	895910	\$.14
3/8"	895911	.16
1/2"	895912	.23
5/8"	895913	.26
3/4"	895914	.36
1"	895915	.44
1 1/4"	895916	.62

Preformed Dead Ends **PRICE EACH**

<i>Cat. No.</i>	<i>Stock No.</i>	
11GDE-083	895917	\$.16
12GDE-109	895918	.20
13GDE-134	895919	.25

Preformed Armor Rods

8AAR-155	895926	.20
12AAR-155	895927	.24
24AAR-155	895928	.29
12AAR-139	895929	.24
24AAR-139	895930	.29
12AAR-110	895931	.17
24AAR-110	895932	.21

Preformed Dead-Ends **PRICE EACH**

<i>Cat. No.</i>	<i>Stock No.</i>	
ANKDE-450	895884	\$1.00
ANKDE-530	895885	1.20
ANKDE-660	895886	1.75
ANKDE-750	895887	2.90
WBDE-470	895888	.75

Plastic Cable Guards **EACH PER 100**

1/2"	895412	\$ 8.50
3/4"	895413	discontinued
1"	896055	13.50
1 1/2"	895414	19.80
2"	896056	29.40
2 1/4"	895415	discontinued

Preformed Splices **PRICE EACH**

<i>Cat. No.</i>	<i>Stock No.</i>	
10GLS-083	895920	\$.24
22GLS-083	895921	.31
12GLS-109	895922	.27
24GLS-109	895923	.35
14GLS-134	895924	.41
26GLS-134	895925	.50

Preformed Dead-Ends **PRICE EACH**

13NSDE	897192	\$.33
14NSDE	897193	.34

Preformed Rural C Tangent Supports

20NSTS-C	897007	.33
22NSTS-C	897008	.34

Preformed Rural C Dead-Ends

15NSDE-14C	896089	.52
20NSDE-12C	896090	.60

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Reliable Wirelink and Wirewise

Cat. No.	Stock No.	PRICE PER 100		
		Less than Carton 1-24	Carton 25	Standard Pkg. 100
5059	895411	\$35.00	\$33.25	\$31.60
5058	895410	52.50	49.85	47.35

Splicing Kits PRICE PER KIT

Cat. No.	Stock No.	PRICE PER KIT
775-1A	895229	\$20.00
775-2A	895230	25.00

Plastic Sleeves

Cat. No.	Stock No.	PRICE PER 1000
24S	895231	\$ 4.75
22S	895232	4.75
19S	895233	4.75
24B		
22B		
19B	895234	5.35

"SCOTCHCAST" Splicing Kits No. 89

A series of kits designed especially to handle most telephone splice applications. This includes plastic, rubber or lead sheath, multi-conductor shielded or unshielded communication cables.

Cat. No.	PRICE TO CONSUMERS		
	1 Kit	10 Kits	20 Kits
89-A1	\$12.64	\$11.38	\$10.75
89-B1	13.42	12.08	11.41
89-A2	15.90	14.31	13.52
89-B2	19.03	17.31	14.27

ORDERING PROCEDURE:

- To choose the correct kit for the type of splice, specify one of the following:
 No. 89-A—For Inline Splices
 No. 89-B—For "WYE" Splices
- To order the correct kit size add to above designation:
 1—For cables 3/8" to 1/2" outside diameter.
 2—For cables 1/2" to 1 1/4" outside diameter.

EXAMPLE: To obtain a kit to splice a multi-conductor communication cable—1/2" O.D.—inline—order as follows:
 1 "SCOTCHCAST" Splicing Kit No. 89-A1

The following table may also serve as a guide for plastic-insulated, plastic-sheathed cables. The kit size is still limited by the O.D. of the cable as given above.

No. of wire pairs in cable	6			11			16			26			51			76		
Wire Gage (AWG)	24	22	19	24	22	19	24	22	19	24	22	19	24	22	19	24	22	19
Specify for kit size	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2

- For example: To obtain a kit to splice a 26 pair cable—inline—24 gage wire, O.D. 1/2" or less order as follows: 1 "SCOTCHCAST" Splicing Kit No. 89-A1.

PACKING: "SCOTCHCAST" Splicing Kits No. 89 are packaged one to a box—10 to a shipping container.

Issue Date: 4-15-57

Linen Test Boards	<i>PRICE</i>
Stock No. *894919	All Sizes..... \$.10 ea.

Transite Fibre Conduit	<i>PRICE</i>
Prices on Application	

Fibre Test Boards	
*894920	All Sizes..... .36 ea.

*These are correct stock numbers, which should be used in place of those appearing on catalog page.

PAGE 9p

Clay Conduit	
Prices on Application	

Conduit Joint Tape	
Price on application	

Dowel Pins	
Cat. No. Stock No.	
9145 891085	..... \$ 4.00 per C

Cope Aerial Cable Feeder and Straightener	
Stock No.	
890980	..... \$50.00 ea.

PAGE 10p

Roll-A-Reels	
894050	Style A..... \$46.50 ea.
894051	Style B..... 84.50 ea.

Reel Jacks	
Cat. No. Stock No.	
A-1029 891025	..... \$102.00 ea.
321 897220	..... 90.25 ea.

Hykon Reel Lift	
RL-25 895190	..... 31.00
RL-31 895191	..... 37.00

Type B Cable Reel Jack	
891014	..... \$90.30 per Pr.

PAGE 11p

Cope Cable Bender	
890986	..... \$41.80 ea.

Manhole Cover Hooks	
890994	..... \$ 2.30 ea.

Manhole Frames and Covers	
Price on application	

Guard Rail	
402 890995	..... 42.70 ea.

Manhole Ladders			<i>Price Each</i>		
<i>Cat. No.</i>	<i>Stock No.</i>	<i>Standard Package</i>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
9111	890981	1.....	\$11.24	\$11.55	\$11.90
9112	890982	1.....	13.83	14.21	14.65
9113	890983	1.....	16.19	16.67	17.23
9115	890984	1.....	20.74	21.32	22.00
9117	890985	1.....	31.44	32.04	33.88

PAGE 12p

Warning Sign	<i>PRICE EACH</i>
890996	..... \$17.20 ea.

Underground Cable Racks and Hooks					
<i>Cat. No.</i>	<i>Stock No.</i>	<i>Standard Package</i>	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>
2124	890969	10.....	\$50.91	\$51.54	\$54.38
2125	890970	10.....	80.48	81.40	85.50
2126	890971	10.....	98.21	99.51	105.38
2131	890972	100.....	24.77	25.00	26.08
2132	890973	50.....	43.09	43.68	46.31
2133	890974	50.....	59.85	60.73	64.68

Cable Rack Insulator	
2120 890975	50..... 30.16 31.43 32.89

Pulling-in-Iron	
9119 890968	5..... 217.42 219.71 229.92

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Cope Cable Duct Shields		PRICE	
Stock No.		Less than 100	More than 100
890976	3"	\$40.00 per C	\$27.00 per C
890977	3 1/2"		

Cable Car		PRICE	
Cat. No.	Stock No.	Eastern Zone	Western Zone
27	891002	\$32.90 ea.	\$36.50 ea.

PAGE 13p

Bierce Cable Roller		PRICE
Cat. No.	Stock No.	
	891006	\$ 4.55 ea.

Cable Spinner		PRICE
Cat. No.	Model	
891004	Model B Spinner	\$479.61 ea.
897221	Model K Spinner	994.38 ea.
897222	Cable Placing Dolly and Chest ..	257.28 ea.

Slack Puller		PRICE
Cat. No.	Stock No.	
LGI	891007	\$31.20 ea.

PAGE 14p

Crapo Galvanized Steel Cable Lashing Wire "C" Coated

Catalog No.	Wire Size	Coil Length	Arbor Hole
C-091-S	.091"	325'	Straight
C-091-T	.091"	325'	Tapered
C-061-S	.061"	650'	Straight
C-061-T	.061"	650'	Tapered

PRICES PER HUNDRED POUNDS

Quantity	.091" Size	.061" Size
Less than 1,500 Pounds	\$26.60	\$35.58
1,500 to 3,999 Pounds	26.15	35.13
4,000 to 9,999 Pounds	25.90	34.88
10,000 to 24,999 Pounds	25.75	34.73

PACKING INFORMATION. Packed 6 coils to the carton. Approximate gross weight of carton ready for shipment: size .091", 44 pounds; size .061", 40 pounds. Tare weight, approximately 1 pound. For orders which necessitate a broken package, add \$1.00 for special handling.

Crapo Corrosion-Resistant Stainless Steel Cable Lashing Wire

PRICES PER HUNDRED POUNDS

.045" Diameter Wire—Type 430

1200-FOOT COIL, NOM. WEIGHT: 6.42 LB.

CATALOG NO. 45CR1200

Quantity	Price Per Cwt.
Less than 100 pounds	\$126.61
100 to 299 pounds	118.06
300 to 499 pounds	114.48
500 to 999 pounds	111.52
1,000 to 1,999 pounds	108.71
2,000 to 4,999 pounds	106.22
5,000 to 9,999 pounds	104.82
10,000 pounds and over	102.50

.061" Diameter Wire—Type 430

735-Foot Coil, Nom. Weight: 7.17 lb.

CATALOG NO. STRAIGHT ARBOR HOLE: 61CR735-S

CATALOG NO. TAPERED ARBOR HOLE: 61CR735-T

Quantity	Price Per Cwt.
Less than 100 pounds	\$115.18
100 to 299 pounds	103.96
300 to 499 pounds	100.79
500 to 999 pounds	98.17
1,000 to 1,999 pounds	95.69
2,000 to 4,999 pounds	93.48
5,000 to 9,999 pounds	92.24
10,000 pounds and over	90.25

.065" Diameter Wire—Type 430

450-Foot Coil, Nom. Weight: 5 lb.

CATALOG NO. 65CR450

650-Foot Coil, Nom. Weight: 7.25 lb.

CATALOG NO. 65CR650

Quantity	Price Per Cwt.	
	450' Coil	650' Coil
Less than 100 pounds	\$116.43	\$115.18
100 to 299 pounds	107.50	103.96
300 to 499 pounds	103.50	100.79
500 to 999 pounds	101.10	98.17
1,000 to 1,999 pounds	98.30	95.69
2,000 to 4,999 pounds	95.90	93.48
5,000 to 9,999 pounds	94.10	92.24
10,000 pounds and over	91.50	90.25

PACKING INFORMATION. Put up in neat, compact, thread-lay coils. Packed in corrugated cartons, 6 coils to carton. Approximate gross shipping weights, Stainless Steel Lashing Wire: .045" (1200' coils), 39 pounds; .065" (650' coils), 44 pounds; .065" (450' coils), 31 pounds; .061" (735' coils), 43 pounds. Tare weight, approximately 1 pound. Furnished in full cartons only.

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Neal Spinning Wire *PRICE EACH*

<i>Cat. No.</i>	<i>1-60 Coils</i>	<i>66-294 Coils</i>	<i>300 or more Coils</i>
1-A.....	\$ 2.22	\$ 2.16	\$ 2.10
12-A.....	1.74	1.69	1.64
5-A.....	2.02	1.97	1.91
10-A.....	12.19	11.86	11.52
11-A.....	8.77	8.53	8.29
4-A.....	5.44	5.29	5.14
6-A.....	6.44	6.27	6.09
7-A.....	2.44	2.37	2.31

Model D Spinner *PRICE EACH*

894681.....	\$465.23 each
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Aerial Cable Splicers' Tents

890999	S.....	\$50.95 ea.
891000	L.....	54.30 ea.
890997	Ground Tent.....	70.80 ea.

Cable Rings

National Cable Rings *PRICE PER THOUSAND*

<i>Stock No.</i>	<i>Size Inches</i>	<i>Standard Package</i>	<i>Less than Standard Package</i>
890576	1½.....	\$35.30	\$38.80
890577	2—Light.....	40.30	44.40
890578	2—Heavy.....	47.70	52.50
890579	2½.....	59.40	65.30
890580	3.....	67.30	74.00

Extra Long Cable Rings *PRICE PER THOUSAND*

<i>Stock No.</i>	<i>Size Inches</i>	
890584	1½.....	\$ 85.60
890585	2.....	136.50
890586	2½.....	160.10
890587	3.....	183.60

Cable Ring Saddles

890589	1½.....	60.00
890590	2.....	76.00
890591	2½.....	94.00
890592	3.....	112.00

Lead Cable Spacers *PRICE PER HUNDRED*

<i>Stock No.</i>	<i>Size Inches</i>	
894910	¼.....	\$ 6.75
894911	½.....	8.75
894912	¾.....	11.25
895108	1.....	14.25

Plastic Cable Spacers

895346	¼.....	2.15
895347	½.....	2.65
895348	¾.....	3.60

Cancelling Sheet Dated: 12-1-56

STROMBERG-CARLSON

Reliable Cable Hangers			PRICE PER THOUSAND	
			1-4999	5000 or over
890611	1	Zinc	\$ 27.91	\$ 26.53
890612	2	Zinc	44.22	42.01
890613	3	Zinc	51.18	48.64
890614	4	Zinc	98.93	93.96
895789	1-C	Copper	57.10	54.60
895790	2-C	Copper	74.50	70.80
895791	3-C	Copper	129.20	123.00
895792	4-C	Copper	217.30	206.20

Diamond Aerial Cable Supports				PRICE PER HUNDRED	
Stock No.	Cat. No.	With U Wire	Cat. No.	Less U Wire	
890615	891	\$ 8.10	891-L	\$ 7.88	
890616	892	9.78	892-L	9.64	
890617	893	11.53	893-L	11.39	
890618	894	14.02	894-L	13.87	
890619	895	15.91	895-L	15.70	

Diamond 1-Hole Steel Clamps		PRICE PER C
L-3		\$.60
L-4		.75
L-5		.85
L-6		.95
L-7		1.05
L-8		1.15
L-9		1.20
L-10		1.25

Diamond Strand Connector		
Cat. No.	Stock No.	
867	893405	\$.84 each

Marline Twine		
Cat. No.	Stock No.	
415	890599	\$.80 lb.
416	890600	.80 lb.

(Other sizes on request.)

Cable Pulling Grips		PRICE EACH			PRICE EACH
Cat. No.	Stock No.		Cat. No.	Stock No.	
802	890919	\$ 6.20	977	894739	\$11.30
803	890920	6.55	978	894740	12.10
804	890921	6.85	842	890933	5.20
805	890922	7.20	843	890934	5.50
806	890923	7.50	954	894731	8.50
807	890924	7.85	955	894732	9.15
808	890925	8.20	956	894733	9.80
812	890926	7.50	957	894734	10.50
813	890927	7.85	958	894735	11.10
814	890928	8.20	822	890909	4.50
815	890929	8.50	823	890910	4.80
816	890930	8.85	824	890911	5.20
817	890931	9.15	825	890912	5.55
818	890932	9.50	826	890913	5.85
862	890947	5.85	933	894727	6.85
863	890948	6.25	934	894728	7.15
974	894736	9.00	935	894729	7.55
975	894737	9.75	936	894730	7.85
976	894738	10.50			

Issue Date: 12-1-56

Waxed Cotton Sleeves			PRICE PER BOX
Cat. No.	Stock No.		
346 H-5	890686	½"	\$ 1.75
345 H-5	890687	½"	1.35
1030 H-5	890688	½"	1.15
61 H-5	890689	¼"	1.00
79 H-5	890690	¾"	1.35

Lead Sleeves	
All Sizes	\$30.15 per 100 Pounds

Cable Compound	
1061	890712 \$1.75 per Can (10 lb. container)

Dillon Temperometer	
890808	.....\$7.25 each

Beeswax Compound		PRICE PER POUND
Cat. No.	Stock No.	
1065	890702	\$.62

Paraffin		
89075019

Plumbers' Candles		
890704	Ordinary	.35
890705	Beacon	.40
890706	Erie	.50

Stearine Wickless Candles		
890709	3½ x 1¼	1.15
890710	8 x 1¼	1.15

Cope Compound Kettle		
894982	No. 53	Each \$8.00

Paraffin Pans		
894983	No. 67	Each 7.20
894984	No. 68	Each 6.30

Paraffin Pots		
894985	No. 56	Each 5.00

Paraffin Dippers		
894986	No. 57	Each 1.40

Burnishing Paste	
890748	.....\$ .60 per can

Commutator Paste	
890749	..... .60 per can

No. 0—Korite Cable Compound	
890713	..... \$3.00 per C lbs.

Metal Rim Tags		
890746	No. 32	\$12.00 per M

Protek-Sorb Desiccant		PRICE EACH
Stock No.		
890870	160 Gram Size	\$.35
890871	650 Gram Size	1.15
894917	Rubber Insulating Bandage	1.50
898192	Cable Wrapping Cloth	.75

Pouring Ladles		
890763	2½"	discontinued
890764	3"	2.65
890765	3½"	2.85
890766	4"	2.95

Long Handled Pouring Ladles		PRICE EACH
Cat. No.	Stock No.	
373	3"	890756 \$.80
	4"	890757 1.15

Wiping Cloths

Flat Wiping Cloths

	Herringbone Stk. No.	Price Each	Moleskin Stk. No.	Price Each
2 x 2	890778	\$.30	890783	\$.40
2½ x 2½	890779	.40	890784	.50
3 x 3	890780	.50	890785	.60
3½ x 3½	890781	.50	890786	.60
4 x 4	890782	.60	890787	.70

Cancelling Sheet Dated: 2-15-56

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STROMBERG-CARLSON

Formed Wiping Cloths

	<u>Herringbone Stk. No.</u>	<u>Price Each</u>	<u>Moleskin Stk. No.</u>	<u>Price Each</u>
2 x 2	890788	\$.30	890793	\$.40
2½ x 2½	890789	.40	890794	.50
3 x 3	890790	.50	890795	.60
3½ x 3½	890791	.50	890796	.60
4 x 4	890792	.60	890797	.70

Catch Cloths

5 x 5	890798	.80	890803	1.00
6 x 6	890799	.90	890804	1.10
6 x 7	890800	1.00	890805	1.20
7 x 8	890801	1.20	890806	1.40
8 x 8	890802	1.30	890807	1.50

Melting and Solder Pots

<u>Cat. No.</u>	<u>Stock No.</u>	<u>PRICE EACH</u>
398	5" 890767	\$1.15
	6" 890768	1.45
	7" 890769	1.95

Linen Lacing Twine

<u>Stock No.</u>	<u>Description</u>	<u>Price</u>
890741	6-Cord Lacing Twine	\$2.75 per lb.
890742	12-Cord Lacing Twine	

Muslin Tape

<u>Stock No.</u>	<u>Description</u>	<u>Price</u>
890744	2" Muslin Tape	\$.30 per roll
890745	4" Muslin Tape45 per roll

Boxwood Dressers

890770	Hardwood Dresser No. 295	\$1.50 each
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Wire Solder

<u>Cat. No.</u>	<u>Stock No.</u>	<u>Price</u>
450	894189	\$89.00 per C lbs.

Wiping Solder

776	890845 (40/60)	74.00 per C lbs.
111	890844 (50/50)	84.50 per C lbs.

Soldering Coppers

<u>Cat. No.</u>	<u>Stock No.</u>	<u>PRICE EACH</u>
531	895193	\$6.00
532	895194	6.90
533	895195	7.80
534	895196	6.90

Soldering Paste

<u>Stock No.</u>	<u>Description</u>	<u>PRICE EACH</u>
890851	2 oz.	\$.13
890852	4 oz. ....	.25
890853	½ lb. ....	.50
890854	1 lb. ....	.90
890855	5 lb.	4.40

Solder

<u>Stock No.</u>	<u>Description</u>	<u>Price</u>
890850	1 lb.	\$1.12 lb.
894187	5 lb.	1.08 lb.

Acid Core

890849	1 lb.	1.12 lb.
894186	5 lb.	1.08 lb.

Stearine Core Solder

894188	1 lb. Spool	1.12 lb.
895863	5 lb. Spool	1.08 lb.

Drift Plugs—Turn Pins

<u>Cat. No.</u>	<u>Stock No.</u>	<u>Description</u>	<u>PRICE EACH</u>
302	890771	Plugs (all sizes)	\$.25
301	890772	Pins (all sizes)45

Cable Paster

890711	1.20
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Shave Hooks and Blades

<u>Cat. No.</u>	<u>Stock No.</u>	<u>Description</u>	<u>PRICE EACH</u>
304	890774	Hook and Blade	\$.75
305	890775	Blade .....	.35
305	890776	Blade35
305	890777	Blade35

Cable Splitting Knife

1515-1	890773	2.75
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SECTION Q PROTECTORS

Issue Date: 4-15-57

PAGE 3q

Reliable Type B Protected Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
11 Pair	890551	\$26.30	\$24.99	\$23.67
11 Pair—Stub	890552	31.50	29.93	28.35
16 Pair	890553	36.15	34.34	32.54
16 Pair—Stub	890554	42.65	40.52	38.39
26 Pair	890555	49.55	47.07	44.60
26 Pair—Stub	890556	58.10	55.20	52.29

Cook Type S-6 Protected Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
112-1706	890483	39.20	37.25	35.30
112-1709	890485	53.50	50.85	48.15
112-1712	890487	72.20	68.65	65.05
112-1715	890489	117.80	111.95	106.40
112-1716	890491	264.50	—	—
112-1700	890482	30.50	29.00	27.45
112-1701	890484	43.45	41.35	39.15
112-1702	890486	59.55	56.65	53.65
112-1703	890488	103.20	94.60	93.15
112-1704	890490	227.70	—	—

Reliable Type RP Protected Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
RP-27	890550	22.40	21.28	20.16
RP-56	894900			

Cook Type S-20 Pole Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
506-1800	890515	14.95	14.20	13.49
506-1820	890517	18.85	17.90	17.00
506-1840	890519	26.00	24.70	23.46
506-1870	890521	27.90	26.50	25.15
506-1805	890516	19.70	18.70	17.75
506-1825	890518	26.55	25.22	23.95
506-1845	890520	34.15	32.45	30.80
506-1875	890522	39.50	37.50	35.60

PAGE 4q

Type ST (Pole or Wall) Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
ST-26	895782	\$27.30	\$25.95	\$24.60
ST-26P	895776	58.50	55.60	52.80
ST-26PS	895779	58.50	55.60	52.80

Type ST Strand Cable Terminals		PRICE EACH		
Cat. No.	Stock No.	1-19	20-99	100 or more
ST-11P	895774 (Protected)	28.15	26.70	25.30
ST-16P	895775 (Protected)	36.55	34.70	32.95
ST-11PS	895777 (Protected)	28.15	26.70	25.30
ST-16PS	895778 (Protected)	36.55	34.70	32.95
ST-11	895780 (Unprotected)	14.45	13.70	13.00
ST-16	895781 (Unprotected)	17.35	16.50	15.70

(For above Terminals specify whether Lead or Plastic Stubs are desired.)

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Protector Units for ST Type Terminals

		PRICE EACH		
Cat. No.		1-19	20-99	100 or more
*504	Station Protector Unit.....	\$.60	\$.57	\$.54
*506	Cable Protector Unit.....	.60	.57	.54

*Sold only in Units of ten (10).

Replacement Parts

		Minimum Order Quantity	Price per 100
P-6082	Carbon Block	200.....	\$ 2.15
P-6083	Alloy Pellet	200.....	1.50
P-5841	Insulator—Carbon Block for No. 504	100.....	12.70
P-5827	Insulator—Carbon Block for No. 506	100.....	12.70

Cook Stranterm Terminals

With 24 Gauge Lead Stub

		PRICE EACH			
Cat. No.	Stock No.		1-19	20-99	100 or more
352-1211	895326	11 pr. less Prot.....	\$14.15	\$13.45	\$12.75
352-1240	895327	11 pr. with Prot.....	23.40	22.25	21.10
352-1216	895328	16 pr. less Prot.....	15.65	14.90	14.10
352-1241	895329	16 pr. with Prot.....	29.10	27.60	26.25
352-1226	895330	26 pr. less Prot.....	27.30	25.95	24.60
352-1242	895331	26 pr. with Prot.....	49.15	46.70	44.35

With 24 Gauge Plastic Stub

352-1250	895333	11 pr. less Prot.....	14.15	13.45	12.75
352-1336	895334	11 pr. with Prot.....	23.40	22.25	21.10
352-1251	895335	16 pr. less Prot.....	15.65	14.90	14.10
352-1337	895336	16 pr. with Prot.....	29.10	27.65	26.25
352-1256	895337	26 pr. less Prot.....	27.30	25.95	24.60
352-1338	895338	26 pr. with Prot.....	49.15	46.70	44.35
352-1305	895794	Mounting Bracket.....	1.50	—	—

Cook Socket Wrench

452-800	890541.....				\$.80 each
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Cook Minigap Socket Wrench

352-1252	895795.....				\$.75 each
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Cook Minigap Protectors

41-290	895332.....	\$.35 each
41-300	897236.....	
41-310	895745.....	.40 each
41-350	895800.....	.60 each

Cook Mytigap Protectors

Cat. No.	Stock No.	
41-450	897238.....	\$.65 each
41-474	897239.....	.45 each

Cook Type PLX Unprotected Cable Terminals

		PRICE EACH			
Cat. No.	Stock No.		1-19	20-99	100 or more
452-1106	895245.....		\$15.50	\$14.72	\$13.98
452-1111	895246.....		17.20	16.34	15.52
452-1116	895247.....		20.00	19.00	18.05
452-1126	895248.....		29.95	28.45	27.02

Cook Type S-20 V

Cable Terminals

Cat. No.	Stock No.	PRICE EACH
506-2330	895043.....	\$16.55
506-2331	895044.....	20.75
506-2332	895045.....	27.50
506-2333	895046.....	30.80
506-2334	895047.....	51.55

Cook Compression Couplings

PRICE EACH

Cat. No.	Stock No.	
506-630	895048.....	\$ 2.30
506-631	895049.....	2.30
506-632	895050.....	2.95
506-633	895051.....	4.45
506-629	895052.....	.70

Cook Trans-Mount Protector Units

506-1850	890186.....	1.65
506-1851	890187.....	1.65

Cancelling Sheet Dated: 12-1-56

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Issue Date: 4-15-57

Cook Type UX Underground Unprotected Cable Terminals

PRICE EACH

Cat. No.	Stock No.	
512-3702	890508	\$19.50
512-3703	890509	24.10
512-3700	890510	27.80
512-3701	890511	34.95
512-3705	890512	38.50
512-3706	890513	46.45
452-3750	890514	1.75

Cook Type XB Unprotected Cable Terminals

		<u>1-19</u>	<u>20-99</u>	<u>100 or more</u>
452-3502	890492	\$ 7.70	\$ 7.30	\$ 6.95
452-3506	890493	10.50	10.00	9.45
452-3503	890494	9.15	8.70	8.25
452-3509	890495	13.85	13.15	12.50
452-3504	890496	10.90	10.35	9.80
452-3512	890497	16.50	15.70	14.85
452-3505	890498	15.60	14.80	14.05
452-3515	890499	22.80	21.60	20.60
452-283	890500	\$1.40 each		
452-189	890501	1.85 each		

Reliable Type "RU" Unprotected Cable Terminals

PRICE EACH

	<u>Stock No.</u>	<u>1-19</u>	<u>20-99</u>	<u>100 or more</u>
6 Pair	890559	\$ 7.70	\$ 7.32	\$ 6.93
6 Pair—Stub	890560	10.50	9.98	9.45
11 Pair	890561	9.15	8.69	8.24
11 Pair—Stub	890562	13.85	13.16	12.47
16 Pair	890563	10.90	10.36	9.81
16 Pair—Stub	890564	16.50	15.68	14.85
26 Pair	890565	15.60	14.82	14.04
26 Pair—Stub	890566	22.80	21.66	20.52

Reliable Type "GR" Unprotected Cable Terminals

11 Pair	890542	10.50	9.98	9.45
11 Pair—Stub	890543	16.00	15.20	14.40
16 Pair	890544	12.60	11.97	11.34
16 Pair—Stub	890545	19.00	18.05	17.10
26 Pair	890546	18.00	17.10	16.20
26 Pair—Stub	890547	26.30	24.99	23.67

Power Cross Protector

501-40	895028	3.75	3.56	3.38
501-50	895251	17.45	16.57	15.74

Reliable High Voltage Protector

		<u>1-24</u>	<u>25-99</u>	<u>100 or more</u>
30-HV	895053	\$ 3.30	\$ 3.13	\$ 2.97
20-HV	895206			

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Cook Type UA-20 Aerial to Underground Terminals		PRICE EACH
Cat. No.	Stock No.	
506-1900	894749	\$ 50.60
506-1902	894751	58.20
506-1904	894753	72.75
506-1906	894755	145.50
506-1866	894757	1.65
506-1901	894750	66.60
506-1903	894752	78.80
506-1905	894754	99.90
506-1907	894756	181.85

Reliable "RUG" Underground Cable Terminals		PRICE EACH		
Stock No.		1-19	20-99	100 or more
11 Pair 6' stub	890572	\$34.45	\$32.70	\$31.00
11 Pair 15' stub	890573	37.10	35.25	33.40
16 Pair 6' stub	895805	42.60	40.45	38.35
16 Pair 15' stub	895806	46.55	44.20	41.90
Stuffing Boxes for RUG Terminal		.86	.76	.71

Cook Type "U" Utility Protector		PRICE EACH
Cat. No.	Stock No.	
517-1722	895796	\$15.40
517-1	895797	5.50
506-1850	890186	1.65

Reliable Fuseless Protectors		PRICE EACH		
Cat. No.	Stock No.	1-24	25-99	100 or more
504	895772	\$.60	\$.57	\$.54
700	895770	1.75	1.67	1.58
800	895771	2.55	2.43	2.30
801	896057	1.95	1.87	1.78
801-A	896060	1.95	1.87	1.78

Cook Fuseless Protectors		PRICE EACH		
Cat. No.	Stock No.	1-24	25-99	100 or more
501-150	895798	2.50	2.38	2.28
501-165	895799	1.70	1.64	1.55
41-350	895800	.60	.57	.54

Reliable Outdoor Protectors		PRICE EACH		
Cat. No.	Stock No.	1-24	25-99	100 or more
2000	897105	\$ 2.45	\$ 2.32	\$ 2.20
2000C	897108	2.45	2.32	2.20
2000H	897106	2.20	2.09	1.98
2000F	897107	2.00	1.90	1.80

Issue Date: 4-15-57

Cook Protectors

Cat. No.	Stock No.	Type	PRICE EACH		
			1-24	25-99	100 or more
473-10	895287	O-9U	\$ 2.20	\$ 2.09	\$ 1.98
471-1581	890177	O-12	1.90	1.80	1.71
472-1582	890178	O-7	2.00	1.90	1.80
473-1583	890179	O-9	2.00	1.90	1.80
474-1584	890180	O-16	1.90	1.80	1.71
481-1585	890181	O-44	1.90	1.80	1.71
475-1586	890182	O-52	2.45	2.32	2.20
516-1	890184	RO-9U	1.95	1.85	1.75

Cook 4-Party Line Junction Box

501-7400	895018		2.40	2.28	2.16
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PAGE 12q

Lightning Arresters

Cat. No.	Stock No.	PRICE EACH		
		1-24	25-99	100 or more
222	890212	\$ 6.00	\$ 5.70	\$ 5.41
402-RR	890214	1.55	1.47	1.39
5503	895802	3.45	3.30	3.10

PRICE PER 100

Cat. No.	Stock No.	1-499	500 or more
P-495	890262	\$10.09	\$ 9.60
41-1907	890194	10.90	10.50

PRICE EACH

Cat. No.	Stock No.	1-24	25-99	100 or more
371-2200	890192	\$ 6.00	\$ 5.70	\$ 5.41
501-7800	890188	1.55	1.47	1.39

PAGE 13q

Testerm Drop Wire Connector

Cat. No.	Stock No.	PRICE EACH		
		1-24	25-99	100 or more
563-30	894859	\$ 1.15	\$ 1.09	\$ 1.03

Two Post Wire Terminal

Cat. No.	Stock No.	PRICE EACH		
		1-19	20-99	100 or more
5500	896039	\$.80	\$.76	\$.72
5502	895801	1.05	.99	.94
5503	895802	3.45	3.30	3.10

PAGE 14q

Reliable Indoor Arresters and Station Protectors

Cat. No.	Stock No.	PRICE EACH		
		1-24	25-99	100 or more
977-AA	890197	\$ 1.15	\$ 1.09	\$ 1.04
955	890202	2.00	1.90	1.80
955-A	890203	1.95	1.85	1.76

Reliable Station Protectors

975	890195	\$ 2.65	\$ 2.52	\$ 2.39
975-B	890198 Less Cover	1.45	1.38	1.31
975-B	890199 With Cover	1.75	1.66	1.58

Reliable Connecting Blocks

Cat. No.	Stock No.	PRICE EACH	
		1-99	100 or more
2	890210	\$.31	\$.29
3	890211	.40	.38

Cancelling Sheet Dated: 12-1-56

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Cook Lightning Arresters

		PRICE EACH		
Cat. No.	Stock No.	1-24	25-99	100 or more
244-1606	890189 Type No. 2	\$ 1.25	\$ 1.19	\$ 1.13
244-1607	890190 Type No. 2	1.20	1.14	1.08

Cook Dielectrics and Carbon Blocks

		PRICE PER 100	
Cat. No.	Stock No.	1-499	500 or more
41-2002	890264	3 Carbon Block grooved	\$ 3.70 \$ 3.15
41-11	890265	2 Acetate Dielectric .005"	1.05 .95
41-12	890266	Acetate Dielectric .007"	1.05 .95
41-10	890267	Mica Dielectric .007"	1.30 1.25
41-53	890268	Mica Dielectric .010"	1.30 1.25
41-3002	890269	1 Carbon Block Plain	3.40 3.05
41-1282	890270	Carbon Block for No. 100 Protector	3.70 3.15

Cook Sub-Station Protector

		PRICE EACH		
Cat. No.	Stock No.	1-24	25-99	100 or more
115-1530	890183	\$ 2.00	\$ 1.90	\$ 1.80

Reliable Building Terminal Boxes

				PRICE EACH		PRICE EACH	
Cat. No.	Stock No.	1-9	10 or more	Cat. No.	Stock No.	1-9	10 or more
E-11	891027	\$ 7.40	\$ 7.00	EC-52	891038	\$26.90	\$25.60
E-16	891028	9.60	9.10	EC-104	891039	53.80	51.10
E-22	891029	12.20	11.60	EC-208	891040	120.50	114.50
E-26	891030	14.10	13.40	L-11	891035	13.20	12.50
E-32	891031	16.30	15.50	L-16	891036	15.70	14.90
E-52	891032	24.90	23.70	L-26	891037	21.80	20.70
E-104	891033	49.00	46.60	L-52	894768	38.60	36.70
E-208	891034	96.00	91.20				

Reliable Terminal Strips

E-11 Pr	891044	2.50	2.40	L-16 Pr	891055	7.50	7.10
E-13 Pr	891045	2.93	2.78	L-26 Pr	891056	12.10	11.50
E-16 Pr	891046	3.64	3.48	T-1X20	891057	2.78	2.61
E-22 Pr	891047	4.95	4.70	T-1X26	891057	2.93	2.78
E-26 Pr	891048	5.93	5.66	T-2X20	891058	3.64	3.48
E-32 Pr	891049	7.29	6.91	T-2X26	891058	3.86	3.64
E-52 Pr	891050	11.81	11.21	T-3X20	891059	4.52	4.30
L-5½ Pr	891051	2.60	2.50	T-3X26	891059	4.90	4.67
L-8 Pr	891052	3.80	3.60	T-4X20	891060	5.28	5.00
L-11 Pr	891053	5.00	4.80	T-4X26	891060	5.88	5.66
L-13 Pr	891054	6.00	5.70				

S-C Repeating Coils in W. P. Housing

HT-610 A	890574	\$45.20 each
Equipped with one Coil and 3 pairs Protection		
HT-610 B	890575	74.30 each
Equipped with two Coils and 5 pairs Protection		

Issue Date: 4-15-57

Cook Type 57 Interior Terminal Box PRICE EACH

Cat. No.	Stock No.	PRICE EACH
490-7000	895807	\$ 9.50
490-7001	895808	12.25
490-7002	895809	15.55
490-7003	895810	18.15
490-7004	895811	31.80
490-7005	895812	62.50

Cook Type 53 Junction Box

490-5313	894966	9.20
490-5326	894967	13.05

Cook Type 54 Interior Junction Boxes

490-5406	894968	4.00
490-5410	894969	6.40
490-5413	894970	7.85
490-5426	894971	11.20

Cook Type WXB Building Terminal PRICE EACH

Cat. No.	Stock No.	PRICE EACH
452-8001	890531	\$14.10
452-8006	890532	18.85
452-8002	890535	15.00
452-8007	890536	22.80
452-8003	890539	19.10
452-8008	890540	28.25

Cook Line Terminal Blocks

Vertical	Horizontal	PRICE EACH
2-332	2-372	3.85
2-322	2-952	2.15
2-352	2-382	4.00
2-342	2-962	2.45

Other Blocks Priced on Request.

Reliable and Cook Iron work for Main Distributing Frames
\$.25 per pair. Includes: Verticals, Crossarms, Rings, Tie
Plates and Protector Mounting Strips.

Reliable Protectors PRICE PER PAIR

Cat. No.	Stock No.	PRICE PER PAIR
303-F	894881	\$ 1.13
303-H	894882	1.91
308-F	894883	1.13
308-H	894884	1.91

Reliable Wall Distributing Frames PRICE EACH

Cat. No.	Stock No.	PRICE EACH
308-W-20	895813	\$15.05
303-W-20	895814	15.05
308-W-40	895815	18.61
303-W-40	895816	18.61
308-W-60	895817	25.00
303-W-60	895818	25.00

Cook Type L-9 Wall Distributing Frames PRICE EACH

361-1050	894651	\$15.30
361-1052	894652	18.95
361-1054	894653	25.45
361-1056	894654	36.50
361-1058	894655	42.90

Cook Protectors PRICE PER BANK

Cat. No.	Stock No.	PRICE PER BANK
360-1210	894035	\$20.80
360-1220	894036	39.25
380-1320	894037	39.25
392-1510	894758	42.60
392-1520	894759	75.00
296-3610	894042	22.55
296-3620	894043	39.25

Cook Heat Coils PRICE PER 100

Stock No.	Type	PRICE PER 100
894000	4-A	\$38.10
894001	10	31.50
894002	50 or 60	36.75
894003	100 or 105	32.00
894004	3800	32.00

Cancelling Sheet Dated: 12-1-56

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Reliable Heat Coil Fuses		<u>PRICE PER 100</u>	
<u>Cat. No.</u>	<u>Stock No.</u>	<u>1-99</u>	<u>100 or more</u>
107	894127.....	\$49.50	\$44.55
115H	894769.....	49.50	44.55

Reliable Mica Fuses		<u>PRICE PER 100</u>	
<u>Cat. No.</u>	<u>Stock No.</u>	<u>Enclosed Type</u>	
		<u>1-999</u>	<u>1000 or more</u>
19	890251.....	\$13.10	\$11.80
8	890252.....	13.10	11.80
22	890253.....	15.30	13.80
137	890254.....	15.50	14.00
21	890255.....	15.50	14.00
11	890256.....	15.50	14.00
25	890257.....	16.10	14.50

Reliable Porcelain Fuse Blocks		<u>PRICE EACH</u>	
<u>Cat. No.</u>	<u>Stock No.</u>	<u>1-99</u>	<u>100 or more</u>
18	894649.....	\$.44	\$.41
20	894650.....	.42	.39

Blow-Rite Fuse Wire		<u>PRICE</u>
890237	(all amperages).....	\$1.70 per Spool

Reliable Fuses for Protectors and Cable Terminals		<u>PRICE PER 100</u>
27L	890218.....	\$16.50
35L	895823.....	15.25
77L	890220.....	23.50
95L	890221.....	16.50
31L	890223.....	15.25
53L	890229.....	30.25
55L	890230.....	30.25
56	890232.....	31.80
52	890228.....	25.85

Cook Tubular Fuses		<u>PRICE PER 100</u>	
<u>Cat. No.</u>	<u>Stock No.</u>	<u>1-499</u>	<u>500 or more</u>
59-0700	890238.....	\$12.70	\$12.05
91-1200	890250.....	15.25	14.50
146-0900	890239.....	16.50	15.65
149-1600	890244.....	13.35	12.70
299-4400	894128.....	15.25	14.50
306-4500	890249.....	16.50	15.65
307-4600	890248.....	15.25	14.50
424-5200	890243.....	30.25	28.75
494-6200	890245.....	31.80	30.20
499-6400	890247.....	15.10	14.35
146-217	895825.....	21.80	20.70

Fuse Needle		<u>PRICE</u>
59-16	894044.....	\$.50 each \$.45 each

Fuse Wire		<u>PRICE</u>
900-6000	895824.....	\$1.35 per 250' spool

Knife Switches		<u>PRICE EACH</u>
<u>Cat. No.</u>	<u>Stock No.</u>	
707	890258.....	\$ 1.10
708	890259.....	1.25
709	890260.....	1.45
710	890261.....	1.75

SECTION R WIRE

PAGE 3, 4, 5, 6, 7r

Issue Date: 4-15-57

Whitney Blake Telephone Wire—Teleprene Wire—Neoprene Jacket

Cat. No.	Type	Stock No.	Approx. Wt. Lbs. per 1M Ft.	Unit Pkg. Feet	Factory Shipping Pkg. Ft.	Unit Pkg. to 25M Ft. List	25M Ft. 50M Ft. -5%	50M Ft. 250M Ft. -12½%	250M Ft. and Over -17½%	Carload and Over -20%
Drop Wires										
567	18TCWP	895354	35	1000	1000(a)	\$26.00	\$24.70	\$22.75	\$21.45	\$20.80
559	18TCWP-R	895355	39	1000	1000(a)	31.35	29.78	27.43	25.86	25.08
552	17TBP	895350	40	1000	1000(a)	33.10	31.45	28.96	27.31	26.48
553	17TBP-R	895352	44	1000	1000(a)	38.30	36.39	33.51	31.60	30.64
577	18TICWP	895357	30	1500	1500(a)	23.90	22.71	20.91	19.72	19.12
566	17TIBP	895356	34	1500	1500(a)	31.00	29.45	27.13	25.58	24.80
565	18TCW-2	895361	35	1000	1000(a)	28.60	27.17	25.03	23.60	22.88
550	17TB2	895358	40	1000	1000(a)	35.00	33.25	30.63	28.88	28.00
561	17TCW2	895359	39	1000	1000(a)	30.00	28.50	26.25	24.75	24.00
551	17TB2-R	895360	45	1000	1000(a)	45.40	43.13	39.73	37.46	36.32

Distributing Wires

554	14THC2	895362	78	750	750(a)	63.30	60.14	55.39	52.22	50.64
556	16THC2	895363	52	1000	1000(a)	45.25	42.99	39.59	37.33	36.20

Tree Wire

591	12TCW1	895364	49	1000	1000(a)	39.70	37.72	34.74	32.75	31.76
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Bridle Wires

732	20TBC2	895367	27	500	500(c)	25.55	24.27	22.36	21.08	20.44
733	20TBC3	895368	39	500	500(c)	38.35	36.43	33.91	31.64	30.68
730	18TBC2	895365	35	500	500(c)	29.50	28.03	25.81	24.34	23.60
731	18TBC3	895366	52	500	500(c)	44.25	42.04	38.72	36.50	35.40
740	14TBC2	897011	78	750	750(a)	63.30	60.14	55.39	52.22	50.64

Plastite—Ground Wires

1460	14-1 Iv.	895372	20	500	3000(d)	19.15	18.19	16.76	15.80	15.32
1461	14-1 Br.	895373	20	500	3000(d)	19.15	18.19	16.76	15.80	15.32
1462	14-1 Bl.	895374	20	500	3000(d)	19.15	18.19	16.76	15.80	15.32

Teleseal Underground Wire—Neoprene Jacket

1351	16TSC2	895369	59	750	750(a)	53.95	51.25	47.21	44.51	43.16
			72	3000	3000(b)	57.95	55.05	50.71	47.81	46.36
1350	14TSC2	895370	82	750	750(a)	71.60	68.02	62.65	59.07	57.28
			99	2250	2250(b)	76.70	72.87	67.11	63.28	61.36
1358	12TSC2	895371	112	750	750(a)	104.95	99.70	91.83	86.58	83.96
			138	1500	1500(b)	113.80	108.11	99.58	93.89	91.04

Armored Teleseal

1370	16TSCP-A	897104	134	5000	5000(b)	140.00	133.00	122.50	115.50	112.00
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FACTORY SHIPPING PACKAGE:

- (a) Individual paper wrapped coils.
- (b) Non-returnable reels.
- (c) Individual knockout cartons.
- (d) Six 500 foot coils in individual knockout reship cartons packed in master carton.
- (e) Four 500 foot coils in individual knockout reship cartons packed in master carton.
- (f) Three 500 foot coils in individual knockout reship cartons packed in master carton.
- (g) Two 500 foot coils in individual knockout reship cartons packed in master carton.
- (h) Four 1000 foot metal spools in individual reship cartons packed in master carton.
- (i) Eight 500 foot metal spools in one carton.

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Plastite Inside Wires—Twisted

Cat. No.	Type	Stock No.	Approx. Wt. Lbs. per 1M Ft.	Unit Pkg. Feet	Factory Shipping Pkg. Ft.	Unit Pkg. to 25M Ft. List	25M Ft. 50M Ft. -5%	50M Ft. 250M Ft. -12 1/2%	250M Ft. and Over -17 1/2%	Carload and Over -20%
1412	22-2 Br.	895375	10	500	3000(d)	\$10.80	\$10.26	\$ 9.45	\$ 8.91	\$ 8.64
1413	22-2 Iv.	895376	10	500	3000(d)	10.80	10.26	9.45	8.91	8.64
1416	19-2 Br.	895377	17	500	2000(e)	15.30	14.54	13.39	12.62	12.24
1417	19-2 Iv.	895378	17	500	2000(e)	15.30	14.54	13.39	12.62	12.24

Plastite Inside Wire with Overall Plastite Jacket Designed for use with Stapling Guns

1431	22PN2J Br.	895379	18	500	2000(e)	19.75	18.76	17.28	16.29	15.80
1432	22PN2J Iv.	895380	18	500	2000(e)	19.75	18.76	17.28	16.29	15.80
1433	22PN3J Br.	895381	20	500	2000(e)	21.60	20.52	18.90	17.82	17.28
1434	22PN3J Iv.	895382	20	500	2000(e)	21.60	20.52	18.90	17.82	17.28
1435	22PN4J Br.	895383	24	500	1500(f)	26.10	24.80	22.84	21.53	20.88
1436	22PN4J Iv.	895384	24	500	1500(f)	26.10	24.80	22.84	21.53	20.88

Plastite Inside Wires—Parallel

1475	22PL2 Br.	895385	11	500	3000(d)	10.25	9.74	8.97	8.46	8.20
1476	22PL2 Iv.	895386	11	500	3000(d)	10.25	9.74	8.97	8.46	8.20
1477	22PL3 Br.	895387	14	500	3000(d)	15.45	14.68	13.52	12.75	12.36
1478	22PL3 Iv.	895388	14	500	3000(d)	15.45	14.68	13.52	12.75	12.36

All Neoprene Station Wire—Inside Outside Use

950	22NE2-J	895399	28	500	1500(f)	29.00	27.55	25.38	23.93	23.20
951	22NE3-J	895400	32	500	1000(g)	32.65	31.02	28.57	26.94	26.12
952	22NE4-J	895401	40	500	1000(g)	40.95	38.90	35.83	33.78	32.76

SINGLE CONDUCTOR—Half of Twisted pair delivered price.

TRIPLE CONDUCTOR—One and one-half times twisted pair delivered price.

FOUR CONDUCTOR—Two times twisted pair delivered price.

PRICING: Items of telephone wire may be combined for quantity discounts. Minimum order one standard package.

FACTORY SHIPPING PACKAGE:

- (a) Individual paper wrapped coils.
- (b) Non-returnable reels.
- (c) Individual knockout cartons.
- (d) Six 500 foot coils in individual knockout reship cartons packed in master carton.
- (e) Four 500 foot coils in individual knockout reship cartons packed in master carton.
- (f) Three 500 foot coils in individual knockout reship cartons packed in master carton.
- (g) Two 500 foot coils in individual knockout reship cartons packed in master carton.
- (h) Four 1000 foot metal spools in individual reship cartons packed in master carton.
- (i) Eight 500 foot metal spools in one carton.

Whitney Blake Distribution Wires

Cat. No.	Pairs	AWG Size	Feet Per Reel	Approx. Wt./Lbs.		List Price per M'
				Net	Gross	
1295	3	19	2000 or 4000	81	99	\$ 84.70
1292	6	19	2000 or 4000	116	138	151.80
1294	11	19	2000	201	251	262.90
1293	16	19	2000	276	336	365.20

NOTE: Not more than 10% of reels to contain 2 pieces. Minimum length of any piece 500 feet.

QUANTITY DISCOUNTS—Less than standard reel.....	List plus 10%
2,000 to 5,999 feet.....	List
6,000 to 9,999 feet.....	List less 10%
10,000 feet or more.....	List less 15%

DELIVERY: F.O.B. New Haven, Conn. Freight allowed to destination.

REELS: Non-Returnable. No charge will be made for reels and no credit allowed if returned.

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Semi-Rigid Plastite Distributing Frame, Jumper and Duct Wire

Cat. No.	Type	Stock No.	Approx. Wt. Lbs. per 1M Ft.	Unit Pkg. Feet	Factory Shipping Pkg. Ft.	Unit Pkg. to 25M Ft. List	25M Ft. 50M Ft. -5%	50M Ft. 250M Ft. -12 1/2%	250M Ft. and Over -17 1/2%	Carload and Over -20%
1401	22S2 B&W	895395	7	1000	4000(h)	\$10.10	\$ 9.60	\$ 8.84	\$ 8.33	\$ 8.08
1402	22S2 R&W	895396	7	1000	4000(h)	10.10	9.60	8.84	8.33	8.08
1403	22S3 R, B, W	895397	11	1000	4000(h)	15.15	14.39	13.26	12.50	12.12
1404	22S4 R, B, W, G	895398	14	1000	4000(h)	20.20	19.19	17.68	16.67	16.16

Distributing Frame Wire—Nylon Jacketed

2110	22DFN2 B&W	895402	7	1000	4000(h)	14.40	13.68	12.60	11.88	11.52
2111	22DFN2 R&W	895403	7	1000	4000(h)	14.40	13.68	12.60	11.88	11.52
2112	22DFN3 B, W, R	895404	11	1000	4000(h)	21.60	20.52	18.90	17.82	17.28

Distributing Frame Wire—Enamel—Cotton Covered

2100	22DF2 B&W	895392	6	1000	4000(h)	18.50	17.58	16.19	15.26	14.80
2102	22DF2 R&W	895393	6	1000	4000(h)	18.50	17.58	16.19	15.26	14.80
2101	22DF3 B, W, R	895394	9	1000	4000(h)	27.75	26.36	24.28	22.89	22.20

FACTORY SHIPPING PACKAGE:

- (a) Individual paper wrapped coils.
- (b) Non-returnable reels.
- (c) Individual knockout cartons.
- (d) Six 500 foot coils in individual knockout reship cartons packed in master carton.
- (e) Four 500 foot coils in individual knockout reship cartons packed in master carton.
- (f) Three 500 foot coils in individual knockout reship cartons packed in master carton.
- (g) Two 500 foot coils in individual knockout reship cartons packed in master carton.
- (h) Four 1000 foot metal spools in individual reship cartons packed in master carton.
- (i) Eight 500 foot metal spools in one carton.

Terms and Conditions of Sale

QUANTITY DISCOUNTS: To all users of these types of wires:

1,000 ft. to 4,999 ft.	List less 10%	50,000 ft. to 99,999 ft.	List less 25%
5,000 ft. to 24,999 ft.	List less 15%	100,000 ft. to 249,999 ft.	List less 27 1/2%
25,000 ft. to 49,999 ft.	List less 20%	250,000 ft. and over	List less 30%

Rural Distribution Telephone Wire — ANKOSEAL

Size 19 AWG Copper Conductors — .109 Extra High Strength Galvanized Steel Support Wire

Type No.	Quart'd. No. Pairs	Approx. Finish O.D.	Net Wt. Per M Ft.	Nominal Reel Length	Approx. Shpg. Wt. Per M Ft.	List Price Per M Feet
319PEV	3	.380"	80	4000'	100	\$ 76.00
619PEV	6	.500"	115	4000'	130	137.00
1119PEV	11	.760"	193	2000'	234	238.00
1619PEV	16	.850"	267	2000'	342	332.00

QUANTITY DISCOUNT—Minimum quantity 2,000 feet.

2,000 feet to 3,999 feet	List
4,000 feet to 5,999 feet	List less 5%
6,000 feet to 7,999 feet	List less 10%
8,000 feet and over	List less 15%

Items on this sheet may be combined to obtain quantity discount.

REELS included in Prices are Non-Returnable. Not more than 10% of reels to contain 2 pieces. Minimum length of any piece is 500 feet.

Cancelling Sheet Dated: 6-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Crapo Galvanized Best Best (BB) Telephone Wire

PRICE PER HUNDRED POUNDS F. O. B. MILL*

Stock No.	Gauge	Less than 1,500 Pounds	1,500 to 3,999 Pounds	4,000 to 9,999 Pounds	10,000 to 24,999 Pounds	25,000 Pounds to Carload	Carload and Over
893134	10 B.W.G.....	price on application					
893135	11 B.W.G.....	price on application					
893136	12 B.W.G.....	\$16.91	\$16.46	\$16.21	\$16.06	\$15.86	\$15.56
893137	14 B.W.G.....	18.24	17.79	17.54	17.39	17.19	16.89

*Shipments from Warehouse Stocks Slightly Higher.

Crapo HTL-85 Galvanized Telephone Wire

893126	10 B.W.G.....	\$17.49	\$17.04	\$16.79	\$16.64	\$16.44	\$16.14
893127	12 B.W.G.....	17.71	17.26	17.01	16.86	16.66	16.36
893128	14 B.W.G.....	19.11	18.66	18.41	18.26	18.06	17.76

*Shipments from warehouse stocks slightly higher.

Crapo HTL-135 Galvanized Telephone Wire

893129	12 B.W.G.....	\$18.73	\$18.28	\$18.03	\$17.88	\$17.68	\$17.38
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Crapo HTL-190 Galvanized Telephone Wire

895747	12 B.W.G.....	\$22.74	\$22.29	\$22.04	\$21.89	\$21.69	\$21.39
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Copperweld Telephone Line Wire

PRICE PER 100 LBS.

F.O.B. Shipping Point	.128" HS 40%	.104" HS 40%	.104" HS 30%	.102" EHS 30%	.080" HS 40%	.080" EHS 30%
Carload and Over.....	\$38.95	\$39.10	\$35.10	\$36.80	\$39.20	\$35.20
20,000 to 29,999 lbs. incl.....	39.45	39.60	35.60	37.30	39.70	35.70
10,000 to 19,999 lbs. incl.....	39.95	40.10	36.10	37.80	40.20	36.20
5,000 to 9,999 lbs. incl.....	40.20	40.35	36.35	38.05	40.45	36.45
2,000 to 4,999 lbs. incl.....	40.70	40.85	36.85	38.55	40.95	36.95
200 to 1,999 lbs. incl.....	41.45	41.60	37.60	39.30	41.70	37.70

BASE PRICE \$45.00 CWT.

Bare Copper Line Wire

Crapo Galvanized Steel Strand

CLASS A COATING ASTM DESIGNATION A 122-52T

Extra Galvanized Common Grade 7-Wire Strand

PRICE PER 1000 FT.

Stock No.	Size	Pounds per 1000 Ft.	Strength in Pounds	Col. 1 Up to 9999 Ft.	Col. 2 10,000 Ft. to 74,999 Ft.	Col. 3 75,000 Ft. to Carload	Col. 4 Carload Shipment at One Time to One Destination
893366	3/8-in.....	813	11600	\$185.58	\$173.98	\$.....	\$139.19
893367	1/2-in.....	517	7400	112.93	105.87	99.64	84.70
893368	5/8-in.....	399	5700	90.22	84.58	79.61	67.67
893369	3/4-in.....	273	4250	66.65	62.48	58.81	49.99
893370	7/8-in.....	205	3200	52.37	49.10	46.21	39.28
893371	1-in.....	121	1900	36.12	33.86	31.87	27.09
893372	1 1/8-in.....	72.9	1150	24.96	23.40	22.02	18.72

Issue Date: 4-15-57

**Following Crapo Galvanized Strand is Classified
"A" Coating ASTM Designation A122-54T**

Extra Galvanized Siemens-Martin Grade 7-Wire Strand

PRICE PER 1000 FEET

Stock No.	Size	Pounds per 1000 Ft.	Strength in Pounds	Up to 9999 Ft.	10,000 Ft. to 74,999 Ft.	75,000 Ft. to Carload	Carload Shipment at One Time to One Destination
893375	5/8-in.	813	19100	\$198.28	\$185.88	\$.....	\$148.51
893376	1/2-in.	517	12100	121.00	113.43	106.76	90.75
893377	7/8-in.	399	9350	96.72	90.67	85.34	72.54
893378	3/8-in.	273	6950	70.86	66.43	62.52	53.15
893379	5/16-in.	205	5350	55.66	52.18	49.11	41.75
893381	1/4-in.	121	3150	37.98	35.61	33.51	28.49
893382	3/16-in.	72.9	1900	26.12	24.48	23.04	19.59

Utilities Grade—Western Union—A. T. & T.

893404	3/8-in. (2200 lb.)	80.3	2400	28.90	27.10	25.50	21.68
893403	1/2-in. (4000 lb.)	164	4600	45.60	42.75	40.23	34.20
893402	5/8-in. (6000 lb.)	225	6000	60.66	56.87	53.52	45.50
893401	3/4-in. (10000 lb.)	273	11500	75.14	70.45	66.30	56.36
893400	7/8-in. (16000 lb.)	399	18000	109.18	102.36	96.34	81.89
893399	1/2-in. (25000 lb.)	517	25000	136.89	128.33	120.78	102.67

Type 430 Stainless Steel—A Chromium Steel

897313	7/32-in.	97	3600	100.00	91.00	86.00	_____
897314	1/4-in.	128	4900	118.00	107.00	102.00	_____
897315	5/32-in.	163	6150	159.00	144.00	137.00	_____
897316	3/8-in.	202	7600	190.00	172.00	163.00	_____
897317	7/16-in.	270	10000	251.00	228.00	217.00	_____
897318	1/2-in.	394	15000	360.00	327.00	311.00	_____
897319	5/8-in.	510	19500	444.00	403.00	383.00	_____

Type 302 Stainless Steel—A Chromium Nickel

897299	7/32-in.	100	6300	121.00	112.50	107.00	_____
897300	1/4-in.	132	8500	142.00	132.50	126.00	_____
897301	5/32-in.	167	10700	174.00	162.00	154.00	_____
897302	3/8-in.	208	13200	203.00	188.00	179.50	_____
897303	7/16-in.	278	18000	269.00	250.00	238.50	_____
897304	1/2-in.	405	26000	367.00	342.00	325.50	_____
897305	5/8-in.	525	33700	462.00	430.00	410.00	_____

Type 316 Stainless Steel—A Chromium-Nickel-Molybdenum Steel

897306	7/32-in.	100	5700	173.00	161.00	153.00	_____
897307	1/4-in.	132	7650	223.50	208.00	198.50	_____
897308	5/32-in.	167	9650	262.50	244.00	232.00	_____
897309	3/8-in.	208	11900	323.00	300.50	287.50	_____
897310	7/16-in.	278	16200	433.00	403.00	383.50	_____
897311	1/2-in.	405	23400	576.00	545.00	519.50	_____
897312	5/8-in.	525	30200	748.00	695.00	661.50	_____

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Copperweld Grip-Flex Insulator Ties—Recommended for Copperweld Line Wire

Catalog Number	Line Wire Size	Approx. Shpg. Wt. Per 100 Units	Reinforcing Wire	Blading Wire	Price Per 100 Complete Units
GFC-78	.128"	14 lbs.	7 Awg x 15"	10 Awg x 24"	\$11.71
GFC-910	.104" or .102"	8 lbs.	9 Awg x 12"	11 Awg x 24"	8.69
GFC-1012	.080"	7 lbs.	10 Awg x 10"	11 Awg x 24"	8.13

Copper Tie Wires APPROXIMATE PRICE \$60.00 CWT.

Preformed Spiral Tie Splints

Cat. No.	Size	Dia. Inches	Length Inches	*Base List Price Per 1000 Pieces
134SP136	10 B.W.G.	.136	21.....	\$60.00
109SP109	12 B.W.G.	.109	17.....	44.00
83SP94	14 B.W.G.	.094	16.....	32.00

*Quantity Extras: Based on the total quantity of Splints (pieces) ordered at one time to one destination. Splints of more than one size may be combined to obtain minimum price.

- 5,000 Splints or over—Above prices net.
- 2,500 to 4,999 Splints—Above prices plus 15%.
- 1,000 to 2,499 Splints—Above prices plus 25%.
- Less than 1,000 Splints—Above prices plus 50%.

Crapo Galvanized Tie Wire

IN COILS

Stock No	Size	PRICE PER 100 LBS. F.O.B. MILL*					
		Less than 1,500 Pounds	1,500 to 3,999 Pounds	4,000 to 9,999 Pounds	10,000 to 24,999 Pounds	25,000 Pounds to Carload	Carload and Over
893109	10 B.W.G.	} price on application					
893110	12 B.W.G.						
893111	14 B.W.G.						
*10 TO 24 INCHES (HORSESHOE TIES)							
	10 B.W.G.	\$19.33	\$18.88	\$18.63	\$18.48	\$18.28	\$17.98
	12 B.W.G.	20.32	19.87	19.62	19.47	19.27	18.97
	14 B.W.G.	23.02	22.57	22.32	22.17	21.97	21.67
*24 TO 48 INCHES (ARMOR TIES)							
	10 B.W.G.	18.78	18.33	18.08	17.93	17.73	17.43
	12 B.W.G.	19.57	19.12	18.87	18.72	18.52	18.22
	14 B.W.G.	21.77	21.32	21.07	20.92	20.72	20.42

*Straightened and Cut to Length (See Schedule "A" for Straightened and Cut Quantity Extras)

NOTE: Prices for Straightened and Cut Tie Wire include straightening, cutting and packing extras. For quantity extras of Straightened and Cut Tie Wire, add to above net prices, quantity extras shown in following Schedule "A".

SCHEDULE "A"

Extras for Quantity of Straightened and Cut Tie Wire

	PER HUNDRED POUNDS
1000 pounds and over of a size.....	BASE
500 to 999 pounds of a size.....	\$1.00
300 to 499 pounds of a size.....	2.00
200 to 299 pounds of a size.....	\$ 3.00
100 to 199 pounds of a size.....	5.00
Less than 100 pounds of a size.....	10.00

Crapo Tangent Support

Cat. No.	Stock No.	Length	PRICE EACH
064CRW109	897194	15½"	\$.33
080CRW109	897195	15½"	.33
083CRW109	897196	15½"	.33

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

SECTION S INSULATORS

Issue Date: 4-15-57

PAGE 3s

Armstrong Glass Insulators		PRICE PER 1000
Cat. No.	Stock No.	LCL
1	891187.....	\$131.65
2	891188.....	104.35
3	891189.....	88.25
9	891190.....	81.85
10	891191.....	228.00
13	891192.....	85.10
14	891193.....	107.65
TW	894674.....	192.65
CSC	891195.....	141.25

Carload prices on application
 Insulator prices applicable for factory shipments only. Slightly increased prices for warehouse shipments.

PAGE 4s

Hemingray Glass Insulators		PRICE PER 1000			PRICE PER 1000
Cat. No.	Stock No.		Cat. No.	Stock No.	
9	891177.....	\$ 83.75	42	891182.....	\$136.85
10	891178.....	90.75	43	891183.....	235.95
12	891179.....	86.60	45	891184.....	136.85
16	891181.....	108.90	23	897198.....	140.20
17	897197.....	108.90	56	894893.....	198.25

Above prices for direct Mill shipments. Slightly increased prices for warehouse shipments.

PAGE 5s

Insulators Non-Breakable Rubber Insulator		
R-3	894675.....	\$14.50 per C

ZONE DESIGNATIONS

Knobs

Zone No. 1

The States of Minnesota, Iowa, Missouri, Kentucky, Virginia and all states north and east thereof. Also Omaha and Lincoln, Nebr.; Kansas City, Atchison and Leavenworth, Kansas; Bristol, Tennessee; Fargo, N. D. and Sioux Falls, S. D.

Zone No. 2

The States of North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas and Tennessee (except Bristol). Also Texarkana, Texas.

Zone No. 3

The States of North Dakota (except Fargo), South Dakota (except Sioux Falls), Nebraska (except Omaha and Lincoln), Kansas (except Kansas City, Atchison and Leavenworth); Oklahoma and Texas except that part west of the eastern border of New Mexico extended south to the Mexican border. Denver and Pueblo, Colorado and all points in Colorado east thereof. Cheyenne, Casper, and Douglas, Wyoming.

Zone No. 4

The States of Montana, Idaho, Utah, Nevada, New Mexico, Arizona, California, Oregon and Washington, Wyoming except Cheyenne, Casper and Douglas; Western Colorado not included in Zone 3, Texas west of the eastern border of New Mexico extended south to the Mexican border.

Zone No. 5

Prices are F. O. B. Pacific Coast warehouses in the cities of Los Angeles and San Francisco, California; Seattle, Washington and Portland, Oregon.

Cancelling Sheet Dated: 2-15-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Plastic Tubes			PRICE PER C				PRICE PER C
Stock No.	I.D.	Length		Stock No.	I.D.	Length	
895179	3/8"	4"	\$ 6.30	895181	3/8"	8"	\$ 8.00
895180	3/8"	6"	7.20	895182	3/8"	12"	9.80

Zone Prices not applicable for Plastic Tubes.

Insulators

Porcelain Telephone Knobs		PRICE PER THOUSAND				
Cal. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
4-SG	891196	\$53.80	\$56.10	\$59.70	\$65.40	\$59.70
S	891197	49.50	50.80	53.20	57.00	56.40
4-2GR	891199	51.60	53.40	56.70	62.10	57.00
6061	891200	68.50	70.30	76.10	78.10	74.70
T	891201	73.50	75.60	79.10	84.60	80.60
C	891202	40.90	41.50	43.10	44.90	44.10
6062	891198	104.00	107.10	113.00	122.10	114.30
22	891203	156.60	159.90	165.40	174.10	169.90

PAGE 6s

Split Nail Knobs		PRICE PER THOUSAND				
Stock No.		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
891206		\$44.40	\$45.90	\$48.00	\$52.00	\$46.20

Same Zone Prices as for Knobs.

ZONE DESIGNATIONS**Porcelain Insulators****Eastern Zone**

The States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, New Jersey, Delaware, Maryland, District of Columbia, Virginia, West Virginia, Kentucky, Ohio, Indiana, Illinois, Michigan, Wisconsin, including all points on the west bank of the Mississippi River, north of the point where the northern boundary of Tennessee intersects the River, and also including all points in Minnesota on or east of a line following the 95th meridian of longitude from the Canadian Boundary south to a point where this meridian crosses the headwaters of the Mississippi River, thence continuing along the River.

Central Zone

The States of North Carolina, South Carolina, Tennessee, Georgia, Mississippi, Florida, Alabama, Louisiana, Texas, Arkansas, Oklahoma, Kansas, Nebraska, North Dakota, South Dakota, Colorado, and all points in Missouri, Iowa and Minnesota excepting points on the west bank of the Mississippi River as noted in the eastern zone definition, also excepting the portion of Minnesota which is included in the eastern zone definition.

Western Zone

The States of Montana, New Mexico, Wyoming, Arizona, Utah, Idaho, Nevada, California, Oregon, Washington.

Cancelling Sheet Dated: 6-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Porcelain Strain Insulators (Dry Process)

PRICE PER HUNDRED

Cat. No.	Stock No.	Eastern Zone	Central Zone	Western Zone
500	891237	\$10.70	\$10.80	\$11.00
502	891238	29.00	29.80	31.20
504	891239	36.30	37.60	38.90
506	891240	54.40	57.30	60.60

(Wet Process)

500	894137	14.64	13.20	14.65
502	894138	30.30	27.30	30.30
504	894139	37.37	33.67	37.37
506	894140	55.55	50.05	55.55

Self Tying Knobs

PRICE PER M

891205	Self Tying Knobs	\$101.80
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Wireholders

PRICE PER HUNDRED

Cat. No.	Stock No.	Zone 1		Zone 2		Zone 3	
		1-99 Pieces	100 and over	1-99 Pieces	100 and over	1-99 Pieces	100 and over
1621	891254	\$36.10	\$31.80	\$37.40	\$32.90	\$37.60	\$33.10
1622	891255	31.00	27.00	31.40	27.30	32.80	28.50
J1955	891256	35.64	31.13	36.96	32.34	37.07	32.45
J1960	891257	43.70	38.17	45.10	39.27	45.66	39.70
J1961	891258	55.88	48.95	57.60	50.60	58.08	50.80
J1965	891260	discontinued					
J1976	891261	95.00	82.70	97.00	84.48	97.57	85.10

Nicopress Splicing Sleeves

For Drop, Bridle and Interior Wires

PRICE PER HUNDRED

Cat. No.	Stock No.	1-5000	5000 or more
3-036A	893201	\$ 2.25	\$ 2.03
3-045B	893202	2.25	2.03
3-051B	893203	2.25	2.03
3-064B	893204	2.25	2.03
4-049B	893205	3.00	2.70

For Hard Drawn Copper Wire

1-064C	893206	4.10	3.69
1-080C	893207	4.28	3.85
1-080D	893208	7.49	6.74
1-102C	893211	5.00	4.50
1-102D	893212	7.49	6.74
1-114D	893215	7.49	6.74

PRICE PER 100

1-128E	893218	\$ 8.73
1-128J	893219	10.70
1-162J	893220	10.70

For BB Iron Wire

PRICE PER HUNDRED

Cat. No.	Stock No.	1-5000	5000 or more
5-083C	893221	\$ 6.26	\$ 5.63
5-109C	893222	6.68	6.01
5-109D-BB	893223	7.50	6.75

For BB Galv-Iron Wire

2-083C	893227	4.73	4.26
2-083D	893228	5.45	4.91
2-109D	893229	5.45	4.91
4-109C	893233	5.45	4.91

PRICE PER 100

2-134J	893230	\$10.47
2-148J	893231	11.55
2-165J	893232	12.83

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Nicopress Splicing Sleeves

For "85" Grade Iron Wire		PRICE PER HUNDRED	
<i>Cat. No.</i>	<i>Stock No.</i>	<i>1-5000</i>	<i>5000 or more</i>
5-083C	893221	\$ 6.26	\$ 5.63
5-109D-85	893235	9.00	8.10
2-083C	893227	4.73	4.26
2-083D	893228	5.45	4.91
		<u>1-100</u>	
2-148J	893231	\$11.55	

For "135" Grade Wire

		<i>1-5000</i>	<i>5000 or more</i>
5-109D-135	893242	\$10.50	\$ 9.45
5-109D-190	897166	14.63	13.17

For "190" Grade Wire

5-190G-190	895831	14.63	13.17
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Nicopress Reducing Sleeves

For Copper Wire		PRICE PER HUNDRED
<i>Cat. No.</i>	<i>Stock No.</i>	
2-045X036B	893309	\$ 4.50
1-064X036C	893310	6.42
1-064X045C	893311	6.42
1-080X036C	893312	6.42
1-080X045C	893313	6.42
1-080X051C	893314	6.42
1-080X064C	893315	6.42
1-102X036C	893316	7.50
1-102X045C	893317	7.50
1-102X051C	893318	7.50
1-102X064C	893319	7.50
1-102X080C	893320	7.50
1-114X036D	893322	11.24
1-114X045D	893321	11.24
1-114X051D	893323	11.24
1-114X064D	893324	11.24
1-114X080D	893325	11.24
1-114X102D	893326	11.24
1-128X051E	893327	13.10
1-128X064E	893328	13.10
1-128X080E	893329	13.10
1-128X102E	893330	13.10
1-128X114E	893331	13.10
1-162X064J	893332	16.05
1-162X102J	893333	16.05
1-162X114J	893335	16.05
1-162X128J	893336	16.05

For Rusty Iron Wire		PRICE PER HUNDRED	
<i>Cat. No.</i>	<i>Stock No.</i>	<i>1-5000</i>	<i>5000 or more</i>
2-102C	893243	\$ 5.45	\$ 4.91

For Copperweld Wire

1-064C	893206	4.10	3.69
1-080D	893208	7.49	6.74
1-102J	893214	10.70	9.63
1-114J	893217	10.70	9.63
3-102D	895164	8.10	7.29

For Galvanized BB Wire		PRICE PER HUNDRED
<i>Cat. No.</i>	<i>Stock No.</i>	
4-109X083C	893339	\$ 8.18
2-109X083D	893340	8.18
2-134X083J	893341	15.71
2-134X109J	893342	15.71
2-148X109J	893343	17.33

For Galvanized Line Wire to Drop, Bridle and Inside Wires

2-083X036C	893344	\$ 7.10
2-083X045C	893345	7.10
2-083X051C	893346	7.10
4-109X045C	893347	8.18
2-109X045D	893348	8.18
4-109X051C	893349	8.18
2-109X051D	893350	8.18
4-109X064C	893351	8.18
2-109X064D	893352	8.18
2-134X051J	893353	15.71
2-134X064J	893354	15.71
2-148X064J	893355	17.33
2-165X064J	893356	19.25

Nicopress Repair Sleeves

For Copper Wire		PRICE PER HUNDRED
<i>Cat. No.</i>	<i>Stock No.</i>	
R-1-080C	893296	\$10.65
R-1-080D	893297	18.68
R-1-102C	893298	12.45
R-1-114D	893299	18.68
R-1-114E	893300	21.83
R-1-128E	893301	21.83
R-1-162J	893302	26.70

For BB Galvanized Wire		PRICE PER HUNDRED
<i>Cat. No.</i>	<i>Stock No.</i>	
R2-083C	893303	\$11.78
R4-109C	893304	13.58
R2-109D	893305	13.58
R2-134J	893306	26.18
R2-148J	893307	28.88
R2-165J	893308	32.03

Cancelling Sheet Dated. 2-15-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 2-15-56

Nicotap Sleeves PRICE PER HUNDRED

PRICE PER HUNDRED				PRICE PER HUNDRED			
Cat. No.	Stock No.	1-5000	5000 or more	Cat. No.	Stock No.	1-5000	5000 or more
T2-045B	894052	\$ 4.13	\$ 3.72	T2-083C	894874	\$ 9.45	\$ 8.51
T2-109D	894053	11.03	9.93	T2-083X045C	894875	14.44	13.00
T2-109X045D	894054	15.78	14.20	T1-080C	894876	9.00	8.10
T2-109X083D	894873	15.78	14.20	T1-080X045C	894877	13.88	12.49

Nicopress Split Sleeves

1727B	895833	3.38	—
1744B	895834	3.38	—

Nicopress Off-set Dead-End Sleeves

For Copper Wire PRICE PER HUNDRED

Cat. No.	Stock No.	PRICE PER HUNDRED
91-064C	893252	\$ 7.17
91-080C	893253	7.49
91-080D	893254	13.10
91-102C	893257	8.75
91-102D	893258	13.10
91-114D	893260	13.10
91-128E	893263	15.29
91-128J	893264	18.72
91-162J	893265	18.72

For Copper-Weld Wire

91-064C	893252	7.17
91-080C	893253	7.49
91-080D	893254	13.10
93-102D	895183	14.18
91-102J	893270	18.72
91-114J	893271	18.72

For BB Galvanized Wire PRICE PER HUNDRED

Cat. No.	Stock No.	PRICE PER HUNDRED
94-109C	893277	\$ 9.53
95-109C	893278	11.69
95-109D-BB	893279	13.13
92-109D	893280	9.53
92-165J	893285	22.44

For "85" Galvanized Iron Wire

95-083C	893274	10.95
92-083C	893275	8.57
92-083D	893276	9.53
95-109D-85	893290	15.75
92-134J	893281	18.33
92-148J	893283	20.22

For "135" Galvanized Iron Wire

95-109D-135	893295	18.38
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Nicopress Tools PRICE EACH

Cat. No.	Stock No.	PRICE EACH
17-2	893190	\$ 3.00
31-C	893191	8.40
31-D	893192	8.40
31-E	893193	8.40
31-J	893194	8.40
31-DC	893195	9.60
31-DJ	893196	9.60
31-CJ	893197	9.60

Nicopress Tool Holsters PRICE EACH

Cat. No.	Stock No.	PRICE EACH
17	893198	\$ 1.20
31	893200	1.60

Cancelling Sheet Dated: 11-1-55

All prices subject to change without notice

STROMBERG-CARLSON

Squeeze Sleeves

For Solid Copper Wire		PRICE PER HUNDRED
Cat. No.	Stock No.	
14-C-1	895448	\$ 4.09
12-C-1	895449	4.27
12-D-1	895450	7.48
10-C-1	895451	4.99
10-D-1	895651	7.48
9-D-1	895452	7.48
8-D-1	895453	7.48
8-J-1	895454	10.69
6-J-1	895455	10.69
4-M-1	895456	19.42
4-P-1	895457	19.42
2-X-1	895458	38.49
1-X-1	895459	38.49

**For Drop, Bridle and Inside Wire—
Copper, Copperweld and Bronze**

19-22-A-3	895460	2.25
17-18-B-3	895461	2.25
16-B-3	895462	2.25
14-B-3	895463	2.25

For Solid Copperweld Wire

14-C-1	895448	4.09
12-D-1	895450	7.48
10-D-3	895464	8.10
10-J-1	895465	10.69
9-J-1*	895466	10.69
8-J-1	895454	10.69
8-J-3	895467	14.74
8-M-1*	895468	18.00
8-P-1*	895469	24.00
7-M-1	895470	18.00
6-P-1	895471	24.00
4-X-1	895472	38.49

*Oversize Sleeve.

For Stranded Copper Wire

On Application

Repair and Transposition Squeeze Sleeves

For Solid Copper Wire		PRICE PER HUNDRED
Cat. No.	Stock No.	
12L-C-1	895502	\$10.65
12L-D-1	895503	18.67
10L-C-1	895504	12.45
10L-D-1	895505	18.67
9L-D-1	895506	18.67
8L-D-1	895507	18.67
8L-J-1	895508	26.70
6L-J-1	895509	26.70

Stranded Copper Wire		PRICE PER HUNDRED
Cat. No.	Stock No.	
6 STR-J-1	895473	\$ 9.99
4 STR-M-1	895474	18.13
4 STR-P-1	895475	18.13
2 STR-X-1	895476	35.92
2/3 STR-X-1	895477	35.92
3 No. 10-P-1	895478	18.13
4/3 STR-X-1	895479	32.33

For 3-Strand Copperweld

8A-M-1	895480	28.12
8A-P-1	895481	28.12
6A-P-1	895482	30.98
6A-X-1	895483	41.25
4A-X-1	895484	41.25
3 No. 12-M-1	895485	19.42
3 No. 12-P-1	895486	24.00
3 No. 10-P-3	895487	23.31

For Galvanized Steel Conductors

14-C-2	895488	4.72
14-C-5	895489	6.25
14-D-2	895490	5.44
12-C-2	895491	5.44
12-C-4	895492	5.44
12-C-5	895493	6.67
12-D-2	895494	5.44
12-D-5BB	895495	7.50
12-D-5	895496	9.00
12-D-5-135	895497	10.50
10-J-2	895498	10.47
10-J-2-85	895499	10.47
9-J-2	895500	11.55
8-J-2	895501	12.82

For Galvanized Steel Conductors		PRICE PER HUNDRED
Cat. No.	Stock No.	
14L-C-2	895510	\$11.77
12L-C-4	895511	13.57
12L-D-2	895512	13.57
10L-J-2	895513	26.17
9L-J-2	895514	28.87
8L-J-2	895515	32.02

Issue Date: 4-15-57

Reducing Squeez Sleeves

Copper to Copper		PRICE PER HUNDRED
Cat. No.	Stock No.	
12x17-18-C-1	895516	\$ 6.42
12x17-18-D-1	895517	11.23
12x16-C-1	895518	6.42
12x14-C-1	895519	6.42
12x16-D-1	895520	11.23
12x14-D-1	895521	11.23
10x17-18-C-1	895522	7.50
10x17-18-D-1	895523	11.23
10x16-C-1	895524	7.50
10x16-D-1	895525	11.23
10x14-C-1	895526	7.50
10x14-D-1	895527	11.23
10x12-C-1	895528	7.50
10x12-D-1	895529	11.23

Other sizes available on request.

Copperweld to Copperweld

10x12-C-1	895552	7.50
10x12-D-1	895553	11.23
10x12-J-1	895554	16.05
9x10-J-1	895555	16.05
8x10-J-1	895556	16.05
8x9-J-1	895557	16.05
6x8-P-1	895558	36.00
6Ax8A-P-1	895559	46.46

Squeez Taps

For Copper, Copperweld and Bronze

Cat. No.	Stock No.	PRICE PER HUNDRED
T-17-18-B-2	895584	\$ 4.04
T-14-16-B-2	895585	4.04
T-12-C-1	895586	9.00
T-12x17-18-C-1	895587	13.87
T-12x14-16-C-1	895588	13.87
T-10-D-1	895589	10.50
T-10x17-18-D-1	895590	15.00
T-10x14-16-D-1	895591	15.00
T-10x12-D-1	895592	15.00
T-9-D-1	895593	10.50
T-9x17-18-D-1	895594	15.00
T-9x14-16-D-1	895595	15.00
T-8-D-1	895596	10.50
T-8x17-18-D-1	895597	15.00
T-8x14-16-D-1	895598	15.00
T-8-J-1	895599	22.12
T-8x14-16-J-1	895600	32.25
T-6-J-1	895601	22.12
T-6x14-16-J-1	895602	32.25

Steel to Steel		PRICE PER HUNDRED
Cat. No.	Stock No.	
12x14-C-4	895560	\$ 8.17
12x14-D-2	895561	8.17
10x14-J-2	895562	15.70
10x12-J-2	895563	15.70
9x12-J-2	895564	16.98
9x10-J-2	895565	16.98
8x10-J-2	895566	18.86
8x9-J-2	895567	18.86

Steel to AWG Drop Wire

14x17-18-C-21	895568	7.09
14x16-C-21	895569	7.09
12x17-18-C-41	895570	8.17
12x17-18-D-21	895571	8.17
12x16-C-41	895572	8.17
12x16-D-21	895573	8.17
12x14-C-41	895574	8.17
12x14-D-21	895575	8.17
10x17x18-J-21	895576	15.70
10x16-J-21	895577	15.70
10x14-J-21	895578	15.70
9x17-18-J-21	895579	17.32
9x16-J-21	895580	17.32
9x14-J-21	895581	17.32
8x16-J-21	895582	19.24
8x14-J-21	895583	19.24

For Steel to Copper, Copperweld and Bronze

Cat. No.	Stock No.	PRICE PER HUNDRED
T-14x17-18-C-2	895603	\$14.44
T-12x17-18-D-2	895604	15.78
T-12x14-16-D-2	895605	15.78
T-10x17-18-J-2	895606	35.25
T-10x14-16-J-2	895607	35.25
T-9x17-18-J-2	895608	35.25
T-9x14-16-J-2	895609	35.25
T-8x14-16-J-2	895610	35.25
T-8x12-J-2	895611	35.25

For Steel to Steel

T-14-C-2	895612	9.45
T-12-D-2	895613	11.02
T-12x14-D-2	895614	15.78
T-10-J-2	895615	27.37
T-9-J-2	895616	27.37
T-8-J-2	895617	27.37

Cancelling Sheet Dated: 2-15-56

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STROMBERG-CARLSON

Squeez Deadends

Copper Conductors *PRICE PER HUNDRED*

<i>Cat. No.</i>	<i>Stock No.</i>	
DE-12-C-1	895618.....	\$19.83
DE-12-D-1	895619.....	17.50
DE-10-C-1	895620.....	17.50
DE-10-D-1	895621.....	18.67
DE-9-D-1	895622.....	19.83
DE-8-J-1	895623.....	28.58
DE-6-J-1	895624.....	29.17
DE-6STR-J-1	895625.....	29.17

Copperweld Conductors

DE-12-D-1	895626.....	17.50
DE-10-D-3	895627.....	21.59
DE-10-J-1	895628.....	29.17
DE-9-J-1	895629.....	29.17
DE-8-J-3	895630.....	28.00
DE-8-M-1	895631.....	32.66
DE-8-P-1	895632.....	43.16
DE-7-M-1	895633.....	32.66
DE-6-P-1	895634.....	43.16

Galvanized Steel Conductors *PRICE PER HUNDRED*

<i>Cat. No.</i>	<i>Stock No.</i>	
DE-14-C-4	895635.....	\$17.50
DE-14-D-2	895636.....	18.67
DE-12-C-4	895637.....	18.67
DE-12-C-5	895638.....	22.16
DE-12-D-2	895639.....	19.83
DE-12-D-5(BB)	895640.....	22.16
DE-12-D-5(85)	895641.....	24.50
DE-12-D-5(135)	895642.....	25.66
DE-10-J-2	895643.....	33.83
DE-9-J-2	895644.....	33.83
DE-8-J-2	895645.....	29.17

Squeez Tools

Toggle Action Compression Type

PRICE EACH

<i>Cat. No.</i>	<i>Stock No.</i>	<i>Grooves</i>	<i>1 to 24</i>	<i>25 or more</i>
2-DC	895648	D & C	\$12.60	\$12.00
2-CJ	895649	C & J		
2-DJ	895650	D & J		
3-BA	895646	B & A	2.05	1.95
2-DD	895647	D & D	discontinued	

SECTION T TOOLS

Issue Date: 4-15-57

PAGE 3t

Seymour-Smith Tree Pruners		PRICE EACH			PRICE EACH
Cat. No.	Stock No.		Cat. No.	Stock No.	
12-18	892206	\$19.50	111	892201	\$ 3.30
12	892207	7.15	20-18	894824	12.35
111-18	892200	12.15	20	894825	3.50

PAGE 4t

Newman Tree Pruners		PRICE EACH	Seymour-Smith Long Handled Pruners		PRICE EACH
Cat. No.	Stock No.		Cat. No.	Stock No.	
700	894621	\$11.55	25	892231	\$ 4.70
800	894622	13.75	26	892232	5.25
900	894623	16.50	Klein Electricians Knife		
Joslyn Forged Steel Bush Hooks			1550-2	892512	1.80
100	897241	4.85			

PAGE 5t

Atkins Pruning Saws		PRICE EACH	Eversfick Standard Earth Augers			PRICE EACH
Cat. No.	Stock No.		Cat. No.	Stock No.	Eastern Zone	Western Zone
40	892236	20" \$ 6.60	8	892292	\$ 9.95	\$11.60
40	892237	24" 8.40	6	892293	8.45	9.30
22	894741	18" 3.90	Chance Telescopic Trip Auger			
22	894742	22" 4.05	610	892294	13.15	14.20
22	894743	24" —	812	892295	14.20	15.35
Newman Double Edge Saw						
118	897240	5.10				

Iwan Auger Blades		PRICE EACH	
Cat. No.	Stock No.	Eastern Zone	Western Zone
5	892299	\$5.00	\$5.50
6	892300	5.00	5.50
7	892301	5.00	5.50
8	892302	5.15	5.65
10	892303	6.00	6.50
12	892304	9.00	10.00

PAGE 6t

Post Hole Diggers		PRICE EACH			
Cat. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
439	892282	\$ 6.35	\$ 6.40	\$ 6.50	\$ 6.65
440	892283	8.60	8.75	8.90	9.10
441	892284	10.10	9.20	10.35	10.55

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Shovels—Straight Wood Handles—Hickory or Ash

PRICE EACH

Cat. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
16	892312	\$10.65	\$10.75	\$10.85	\$11.05
17	892313	11.50	11.60	11.70	11.95
18	892314	12.45	12.55	12.70	12.90
19	892315	13.60	13.70	13.85	14.20

Round Point Shovels

823	892334	4.95	5.00	5.05	5.15
826	892335				

Spoons—Eastern Pattern

55	892340	10.65	10.75	10.85	11.05
56	892341	11.50	11.60	11.70	11.95
57	892342	12.45	12.55	12.70	12.90
58	892343	13.60	13.70	13.85	14.20
58A	892344	15.20	15.35	15.50	15.90

Spoons—Western Pattern

50	892350	10.65	10.75	10.85	11.05
51	892351	11.50	11.60	11.70	11.95
52	892352	12.45	12.55	12.70	12.90
53	892353	13.60	13.70	13.85	14.20
54	892354	15.20	15.35	15.50	15.90

PAGE 7t

Octagon Tamping and Digging Bars

PRICE EACH

Cat. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
408	892260	\$ 9.80	\$ 9.95	\$10.05	\$10.35
409	892261	10.40	10.55	10.65	10.95
411	892262	11.35	11.50	11.60	11.90
412	892263	12.65	12.80	12.90	13.20

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

A. T. & T. Pattern Tamping Bars

PRICE EACH

Cat. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
421	892272	\$14.05	\$14.15	\$14.30	\$14.50
422	892273	15.45	15.55	15.65	15.85

Chance Expanding and Tamping Bar PRICE EACH

Cat. No.	Stock No.	Eastern Zone	Western Zone
10	892307	\$12.95	\$14.00
12	892309	15.50	16.85

Pike Poles—Light Pattern

205	892405	9.15	9.25	9.35	9.60
206	892406	9.95	10.10	10.25	10.45
207	892407	10.80	11.00	11.10	11.30
208	892408	11.75	11.95	12.05	12.30
209	892409	12.90	13.10	13.20	13.45

Pike Poles—A.T.&T. Pattern

219	892410	11.40	11.55	11.65	11.95
220	892411	12.70	12.90	13.00	12.35
221	892412	13.70	13.85	13.95	14.30
222	892413	14.75	14.95	15.05	15.40
223	892414	15.90	16.15	16.25	16.60

Chance Safety Reversible Point Pike Poles PRICE EACH

PRICE EACH

Cat. No.	Stock No.	Eastern Zone	Western Zone	Cat. No.	Stock No.	Eastern Zone	Western Zone
210P	892431	\$ 8.95	\$ 9.20	216P	892434	\$12.55	\$12.75
212P	892432	10.25	10.45	218P	892435	13.80	14.00
214P	892433	11.40	11.60	220P	892436	15.05	15.30

Jenny Supports

PRICE EACH

Cat. No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
301	892453	Prices on Application			
302	892454				
303	892455				

Raising Forks, Guarded Pike Poles

226	892415	Prices on Application			
227	892416				
228	892417				
229	892418				
230	892419				
231	892420				

Carrying or Lug Hooks—Standard Pattern—Hickory

(Substitute for 112-113-114)

103	892375	\$10.95	\$11.05	\$11.15	\$11.30
104	892376	11.55	11.65	11.80	12.10
105	892377	12.05	12.20	12.30	12.60

Cant Hooks—Hickory Handles

118	892393	10.00	10.05	10.10	10.20
119	892394	10.45	10.50	10.55	10.65
120	892395	11.30	11.35	11.40	11.50

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Peavies—Hickory Handles

		PRICE EACH			
Cat No.	Stock No.	Zone 1	Zone 2	Zone 3	Zone 4
124	892369	\$11.35	\$11.40	\$11.45	\$11.55
125	892370	12.05	12.10	12.15	12.25
126	892371	12.80	12.85	12.90	13.00

Chance Pole Tongs

		PRICE EACH
C-200-T	895666	\$18.15

Pay-out and Take-up Reels

		PRICE EACH
Cat No.	Stock No.	
5197	892461	\$47.65

Storeroom Reel

		PRICE EACH
800	897243	\$46.00

Wire Reel with Meter

FSA	894772	Reel	54.50
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Take-up Reel

4T	897242	38.00
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Suttle No. 400 Squirrel Cage Reel

400	897244	76.45
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Duo-Safety Extension and Step Ladders

One Section

Cat No.	Stock No.	PRICE EACH
10-D-1	894683	\$18.00
12-D-1	894684	19.50
14-D-1	894685	23.00
16-D-1	894686	29.00
18-D-1	894687	32.50
20-D-1	894688	35.00

Two Section

16-D-2	894690	35.00
18-D-2	894691	38.00
20-D-2	894692	40.00
22-D-2	894693	43.00
24-D-2	894694	45.00
26-D-2	894695	49.00
28-D-2	894696	51.00
30-D-2	894697	53.00

Type "C"

Cat No.	Stock No.	PRICE EACH
5-C	897203	\$19.00
6-C	897204	21.00
7-C	897205	24.00
8-C	897206	28.00
10-C	897207	35.00
12-C	897208	42.00
14-C	897209	51.00
16-C	897210	56.00

Type "E"

		PER SECTION
894698	6' Sections	\$12.00
	7' Sections	13.95

Guy Wire Dispenser

		PRICE EACH
3001	895685	\$16.00

Issue Date: 4-15-57

Duo Safety Ladder Shoes

894838..... \$ 3.25 pair

Putnam No. 105 Automatic Portable Ladder

Cat. No. Stock No.
105 897216..... Price on Application

Putnam No. 2 Rolling Ladder Assembly

2 897217..... Price on Application

Klein Side Cutting Pliers

PRICE PER PAIR

Cat. No.	Stock No.	
201-6	892466	\$ 2.77
201-7	892467	3.07
201-8	892468	3.47
201-9	892469	3.90

Nos. 202-5 and 202-6

202-5	892479	2.23
202-6	892480	2.27

With Sleeve Joint Twister

212-6NE	892474	2.93
212-7NE	892475	3.23
212-8NE	892476	3.67

Oblique Cutting

245-5	892477	2.23
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With W Stripping Notches

245-5W	892478	2.43
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Round Nose N.E. Type

PRICE PER PAIR

Cat. No.	Stock No.	
201-6NE	892470	\$ 2.77
201-7NE	892471	3.07
201-8NE	892472	3.47
201-9NE	892473	3.90

Heavy Duty Pattern

213-9NE	895767	4.40
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With W Stripping Notches, Sleeve Opening and Skinning Holes

202-5SW	892481	2.73
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Nos. 240-5 and 240-6

240-5	892482	2.40
240-6	892483	2.43

Heavy Pattern

242-6	892486	2.43
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Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Klein Long Nose Pliers—without Cutters		<i>PRICE PER PAIR</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
301-5	892487	\$ 1.93
301-6	892488	1.97
301-7	892489	2.17
Long Nose Pliers—Side Cutting		
203-5	892490	2.37
203-6	892491	2.40
203-7	892492	2.53
Long Nose Sleeve Pliers		
316-S	892493	2.27
Long Needle Nose Pliers		
303-6	892494	1.97

Long Curved Nose Pliers		<i>PRICE PER PAIR</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
302-6	892495	\$ 2.53
Long Flat Nose Pliers		
305-6	892496	1.97
Long Flat Nose Pliers—Side Cutting		
206-6	892497	2.43
Long Flat Nose—Spring Adjuster Pliers		
311-5½	892498	2.33
Heat Coil Pliers		
313-6	892499	2.33
Long Duck Bill Pliers		
304-6	892501	1.97

Klein Long Duck Bill Pliers		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
205-6	892502	\$2.43 Pair
Klein Pump Plier		
510	897180	\$3.00 Each
Klein Plier Grips		
60	895242	\$.65
70	895243	.70
89	895244	.75
2100-5	892514	Scissors \$1.85 Pair
Klein Linemen's Wrenches		
3146	892508	\$ 2.75
3146-A	892509	2.75

Klein Adjustable Wrench		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
500-6	897187	\$ 2.25
Hi-Wire Strippers		
HS-02	897211	5.20
HS-0	897212	5.20
HS-01	897213	5.20
HS-2	897214	5.20
HS-3	897215	5.20
Diamond B Braid Stripper		
779	892513	1.95
Parallel Wire Slitter		
S-7508	895011	1.75

Whitney Blake Wire Slitter		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
S-1	895724	\$.75
Klein—Chicago Grips—For Bare Wire		
1613-30	892515	3.20
1613-30-B	892516	4.80
1613-40	892517	5.20
1613-40-B	892518	7.40
1613-50	892519	9.50
1613-50-B	892520	14.20
Chicago Grips—For Messenger Strand and Cable		
1628-5	892521	9.60
1628-5-B	892522	11.80
1628-6	892523	13.00
1628-6-B	892524	17.25
1628-16	892525	23.00
1628-16-B	892526	27.00

Havens Steel Grips		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
1604-10	892527	\$ 3.40
1604-20	892528	4.40
Chicago Linemen's Tool		
1700-30	892536	10.75
Improved Haven's Grips		
1628-20	892529	8.40
Klein's Howes Wire Tool		
1702-20	892537	7.75

Issue Date: 4-15-57

Self-Locking Tackle Blocks		PRICE EACH
Cat. No.	Stock No.	
1802-30	892538	\$ 6.05
Hand Lines		
1803-60	892539	5.95
443-A	892541	1.60

Chance Hoist		PRICE EACH
Cat. No.	Stock No.	
3010	895667	\$ 51.00
3010-S	895668	52.00
Coffing Hoists		
AG	892550	58.00
ATG	892551	72.00
FG	892552	81.00
FTG	892553	103.00
ZG	892554	199.00

Van-Web Hydraulic Pole Jack		PRICE EACH
Cat. No.	Stock No.	
100	894840	\$75.00
Coffing Mighty Midget Puller		
MP-5	894682	Mighty Midget Puller.. 32.50

Coffing Load Binders		PRICE EACH
Cat. No.	Stock No.	
A	892555	\$31.65
F	892556	42.35
Simplex Aerial Cable Jack		
324	891026	36.65

Simplex Pole Jacks		PRICE EACH
Cat. No.	Stock No.	
310A	891484	Jack Complete..... \$88.25
325	891482	Jack Complete..... 86.35
1538	891483	Jack Complete..... 111.50
A1538	897219	Jack Complete..... 132.75

Wood and Malleable Iron Pulley Blocks	
Prices on Application	

Klein Climber Straps and Pads		PRICE
Cat. No.	Stock No.	Per Set
5301-1	892608	\$ 5.80
5301-2	892609	6.20
5301-3	892610	6.20
		Per Pair
5301-9	892619	\$ 2.25
5301-10	892620	2.40
8203	892621	1.60
8204	892622	2.45
8205	892623	2.45
8200	892613	1.35
8201	892614	1.35
8202	892615	.95

Buckingham Climber Pads		PRICE PER PAIR
Cat. No.	Stock No.	
3122	894422	\$ 3.25
3038	894418	1.60
3238	894419	2.10
3039	894410	1.35
3239	894411	1.60
Buckingham Climber Straps		
2234	894426	1.70
2434	894427	1.75
2235	894424	2.10
2435	894425	2.35

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Buckingham Climbers		PRICE PER PAIR
<i>Cat. No.</i>	<i>Stock No.</i>	
9126	894401	\$ 7.00
9130	894517	10.35
9131	894567	10.35

Klein Climbers		
<i>Cat. No.</i>	<i>Stock No.</i>	
1901-M	892606	6.50

Klein Tool Belts		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
5228	892627	\$19.90
5204	892624	9.30

Klein Tool Belts		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
5204-TSO	892626	\$18.30
5249	894861	23.80

Klein Plier Pockets		
<i>Cat. No.</i>	<i>Stock No.</i>	
5107	892636	1.15
5112	892637	2.05
5118-K	894862	2.60

Klein Adjustable Climbers		PRICE PAIR
<i>Cat. No.</i>	<i>Stock No.</i>	
1945ADJ	895220	\$ 9.60
C1945ADJ	895221	17.20

Buckingham Adjustable Climbers		
<i>Cat. No.</i>	<i>Stock No.</i>	
9205	894700	17.80

Buckingham Gaff Protectors		
<i>Cat. No.</i>	<i>Stock No.</i>	
6009	894423	1.00

Klein Safety Straps		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
5251	892628	\$10.00
5250	892629	9.60
5253	892630	11.40
5257-S	892631	11.40
5257-L	892632	11.60
5233	892633	10.80

Klein Combination Tool Pocket		
<i>Cat. No.</i>	<i>Stock No.</i>	
5126	897185	3.60
5127	897186	4.35

Buckingham Belt Supporter		
<i>Cat. No.</i>	<i>Stock No.</i>	
6258	894451	3.50

Buckingham Safety Straps		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
3042	894452	\$ 9.50
3142	894453	9.00
3542	894460	10.50

Buckingham Tool Pouches		
<i>Cat. No.</i>	<i>Stock No.</i>	
4650	894536	4.25
4652	894538	3.15

Buckingham Tool Belts		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
1060	894531	\$19.00
1058	894438	19.00

Buckingham Sharpening Gage		PRICE EACH
<i>Cat. No.</i>	<i>Stock No.</i>	
6102	894408	\$ 1.25

Buckingham Thread Cleaner		
<i>Cat. No.</i>	<i>Stock No.</i>	
6103	894993	6.50

Issue Date: 4-15-57

Buckingham Canvas Bags		PRICE EACH
Cat. No.	Stock No.	
5324	894550	\$ 9.25

Buhrke Canvas Bucket		PRICE EACH
Cat. No.	Stock No.	
1084	892647	8.15

Buhrke Collapsible Non-Metallic Bucket		PRICE EACH
Cat. No.	Stock No.	
1324	892648	11.70

Klein Canvas Tool Bags		PRICE EACH
Cat. No.	Stock No.	
5102-18	892641	\$10.90
5102-20	892642	11.20
5105-18	892643	11.50
5105-20	892644	12.00

Kennedy Tool Kits		PRICE EACH
Cat. No.	Stock No.	
1018	892645	11.85
CS-19	892646	5.10

No. 261 Greenlee Socket Framing Chisels			PRICE EACH
Stock No.	Size		
892666	1/4"		\$ 2.28
892668	1/2"		2.28
892670	3/4"		2.52
892672	1"		2.73

Files—Die Cast Bastard Mill			PRICE EACH
Stock No.	Length Inches		
892677	10		.70
892678	12		.90
892679	14		1.00

Plumb Ball Pein Hammers		PRICE EACH
Cat. No.	Stock No.	
372	892684	\$ 1.60
373	892685	1.75
374	892686	1.80
375	892687	1.90

Plumb Nail Hammers		PRICE EACH
Cat. No.	Stock No.	
80	892680	2.20
81	892681	2.45
82	892682	2.45
83	892683	2.35

Helwig Cutters		PRICE EACH
Cat. No.	Stock No.	
4CG	895656	\$ 7.67
3CG	895657	9.17
2CG	895658	11.77
H2CG	895862	16.68

Spintite Socket Wrenches		PRICE EACH
Cat. No.	Stock No.	
3406	892700	\$.77
3407	892701	.77
3408	892702	.77
3409	892703	.77
3410	892704	.77
3411	892705	.77
3412	892706	.77
3414	892707	1.20
3416	892708	1.20
3418	892709	2.15
3420	892710	2.20

Di-Forge Twist Drills			PRICE EACH
Stock No.	Size		
890086	3/16"		.79
890087	1/4"		.79
890088	5/16"		.94
890089	3/8"		1.09
890090	7/16"		1.38
890091	1/2"		1.67
890092	5/8"		1.97
890093	3/4"		2.11

Style B Drill Holder		PRICE EACH
Stock No.		
890094		1.60

Style C Drill Holder		PRICE EACH
Stock No.		
890095		3.20

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

N 4-Point or Star Drills

Prices on application

Diamond Spiral Twist Carbide Drill *PRICE EACH*

Stock No.	Cat. No.	Chuck	Price
895208	7703	1/4" Chuck	\$ 1.20
895209	7704		1.20
895210	7705		1.30
895211	7706		1.45
895212	7707		1.60
895213	7708-A		1.80
1/2" Chuck			
895214	7708-B		1.80
895215	7709-A		2.00
895216	7710		2.20
895217	7711		2.50
895218	7712		2.80
895219	7714		3.40

Single Spur—Car Bits—No. 57 Bits

Stock No	Twist	Price
12 inch Twist		
892918	7/16"	2.24
892916	1/4"	2.28
892917	9/16"	2.31
892918	10/16"	2.35
892919	11/16"	2.42
892920	13/16"	2.66
18 inch Twist		
892926	7/16"	3.22
892927	10/16"	3.29
892928	11/16"	3.57
892929	13/16"	3.78
24 inch Twist		
892935	7/16"	4.10
892936	10/16"	4.20
892937	11/16"	4.45
892938	13/16"	4.80

No. 600 Greenlee Draw Knife

PRICE EACH

Stock No.	Size	Price
894699	9"	\$ 2.65
892693	10"	2.80
892694	12"	3.65

Greenlee Car Bits—No. 56 (Size in Sixteenths)

Stock No.	Size	Price
892880	6	1.30
892881	7	1.30
892882	8	1.33
892883	9	1.40
892884	10	1.51
892885	11	1.68
892886	12	1.79

Greenlee Wood Boring Brace Drill—No. 46 Drill

Stock No.	Size in Thirty-Seconds	Price
892860	4	.63
892861	5	.63
892862	6	.77
892863	7	.84
892864	8	.95
892865	9	1.05
892866	10	1.15
892868	12	1.33
892870	14	1.54
892872	16	1.75

Issue Date: 4-15-57

Greenlee Auger Bits—No. 22 Bit PRICE EACH

<i>Stock No.</i>		
<i>(Size in Sixteenths)</i>		
892820	4	\$.70
892821	5	.70
892822	6	.70
892823	7	.74
892824	8	.77
892825	9	.81
892826	10	.84
892827	11	.88
892828	12	.91

Greenlee Bell Hangers' Drills—No. 48 Drill

<i>(Size in Thirty-Seconds)</i>		
<i>18 inch</i>		
892847	6	1.47
892848	8	1.58
892849	10	1.61
892850	12	1.75
892851	14	1.93
892852	16	2.14

Yankee Plain Screwdrivers—No. 90

<i>Stock No.</i>	<i>Size</i>	
892711	1½	.60
892712	2	.60
892713	3	.67
892714	4	.73
892715	5	.80
892716	6	.80
892718	8	1.87
892720	10	1.33

Other sizes available.

No. 92 Screwdriver—Compo Tuff Handle

892726	4	.67
892727	6	.87
892728	8	1.13

Greenlee Ship Auger Car Bits—No. 64 Bit

<i>Stock No.</i>		
<i>(Size in Sixteenths)</i>		
892895	4	\$ 1.79
892896	5	1.79
892897	6	1.79
892898	7	1.82
892899	8	1.86
892900	9	1.89
892901	10	1.93
892902	11	1.96
892903	12	2.00

Yankee Stubby—Compo Tuff Handle

<i>Cat. No.</i>	<i>Stock No.</i>	<i>Size</i>	
92	892729	1½	.60

Yankee—Cabinet Style Screwdrivers—No. 95

892730	1½	.57
892731	2½	.57
892732	3½	.60
892733	4½	.67
892734	5½	.71
892735	6½	.76
892737	8½	.89
892739	10½	.97
892740	12½	1.07
892741	15½	1.24

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

**Yankee—Phillips Screwdrivers
Heavy Duty**

Cat. No.	Stock No.	PRICE EACH
901	892742	\$.63
902	892743	.67
903	892744	.80
904	892745	1.00

Yankee—Phillips Screwdrivers—Regular

941	892746	.33
942	892747	.40
943	892748	.49
944	892749	.65

Yankee—No. 15 Screwdriver—Ratchet Style

2	892759	1.33
3	892760	1.40
4	892761	1.40
5	892762	1.47
6	892763	1.47
8	892764	1.53

**Yankee—No. 10-A Screwdriver
Ratchet Style**

Cat. No.	Stock No.	PRICE EACH
3	892752	\$ 1.47
4	892753	1.53
5	892754	1.67
6	892755	1.73
8	892756	1.87

Yankee Ratchet Tap Wrenches

250A	892810	2.95
251A	892811	3.20

**Yankee Spiral Ratchet Screwdrivers—
Quick Return Style**

130A	892765	6.20
131A	892766	7.86
135	892767	5.47

Regular Style

30-A	892768	5.67
31	892769	7.33

Yankee Automatic Drill

No. 41	892790	4.49
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PAGE 30t

Yankee Chuck and Drill Points

Cat. No.	Stock No.	PRICE EACH
30A	892775	\$ 1.49
31A	894839	1.49
35	892776	.80

Yankee Offset Ratchet Screwdrivers

3400	892781	.65
3800	892782	1.16

Screwdriver

3423	892783	1.16
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Yankee Radio Drills

Cat. No.	Stock No.	PRICE EACH
1431A	892785	\$ 6.60

Yankee Ratchet Single-Speed Hand Drill

1530A	892784	8.80
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Yankee Plain Hand Drill

1446	892788	12.86
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PAGE 31t

Yankee Ratchet Bit Braces

Cat. No.	Stock No.	PRICE EACH
2101-8	892793	\$ 10.93
2101-10	892794	10.93
2101-12	892795	11.13

Yankee No. 2150 Extension Bits

15	892806	3.73
18	892807	3.73
21	892808	3.93
24	892809	4.13

Wilton Precision Jeweler Vises

20S	895679	17.28
20N	895680	14.40
20C	895681	20.16

Wilton Combination Pipe Vises

Cat. No.	Stock No.	PRICE EACH
C-0	895669	\$ 41.60
C-1	895670	59.20
C-2	895671	91.20

Wilton Swivel Base Bench Vise

250S	895672	22.72
300S	895673	28.80
350S	895674	33.60
400S	895675	40.00
450S	895676	49.60
500S	895677	67.20
600S	895678	115.20

Wilton Press and Machine Vises

1251	895682	7.90
1252	895683	22.20
1253	895684	44.00

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Issue Date: 4-15-57

Lufkin Boxwood Rules PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
651	892944	\$.45

Lufkin Spring Joint Rules

064	892945	.95
065	892946	1.20
066	892947	1.35
068	892948	1.75

Lufkin Linen Tape Rules

400	892956	5.85
403	892957	7.25
405	892958	9.25
406	892959	11.50

Cold Chisels

Prices on application

Lufkin Steel Tape Rules PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
260	892960	\$ 6.75
263	892961	8.00
265	892962	10.50
266	892963	13.60

Lufkin Michigan Chain Tapes

3100	892965	15.50
3150	892966	22.50
3200	892967	29.00
3300	892968	41.00
3500	892969	62.50

Black and Decker Drills PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
345	894763	\$42.00
361	894764	68.00

Black and Decker Drills PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
238	894765	\$105.00

Black and Decker Drills PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
103	894767	\$155.00
	894761	1/4" Home Utility 27.95
	894762	1/2" Home Utility 53.50

Dillon Bisector PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>	
	893406	\$ 7.50

Matthews Teleheight

CW	892103	13.80
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Soldering Irons and Tips

SOLDERING IRONS

<u>Cat. No.</u>	<u>Stock No.</u>	<u>Price Each</u>
3138	890818	\$ 6.44
3158	890819	7.52
3178	890820	9.93
3198	890821	12.86

TIPS ONLY

<u>Cat. No.</u>	<u>Stock No.</u>	<u>Price Each</u>
3738	890822	\$.42
3758	890823	.98
3778	890824	1.92
3798	890825	3.30

Temperature Regulating Stand

475	894673	5.25
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Weller Replacement Tips PRICE PER PKG.

7135	894972	\$.35
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Weller Soldering Guns

S-400	895267	8.95
D-440	895268	10.95

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Hexacon Battery Soldering Irons PRICE EACH

Cat. No.	Stock No.		PRICE EACH
612	895664	.....	\$17.60
624	895665	.....	17.60

Kemode Quick-Shot Soldering Iron

Model	Stock No.	Size	Price on Application
Model QS	897245	¼	Price on Application
Model QS	897246	⅜	\$12.50
Model QS	897247	½	12.50
Model QS	897248	100	13.25

Kemode Quick-Shot Cartridges

CQS12	894872 Carton	1.92
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Wall Soldering Guns PRICE EACH

Cat. No.	Stock No.		PRICE EACH
214T	895659	discontinued
214TN	895660	.....	\$14.95
212LT	895661	.....	16.95

Pencil Type Soldering Guns

14T	895663	.....	7.25
18T	895662	.....	6.25

Kemode Soldering Tips

Tip	Stock No.	Price on Application
¼" Pyramid	897249	Price on Application
⅜" Pyramid	897250	\$ 3.25
½" Pyramid	897251	3.25
¾" Chisel	897252	3.25
¾" Chisel	897253	3.25
1" Chisel	897254	4.00

R-411 Acetylene Regulator PRICE EACH

R-411-MC	895197	\$11.50
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Prest-O-Lite Style MC Acetylene Tanks

MC	890907	14.75
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Prest-O-Lite Extra Stems

Part No.	Price
10X26	2.50
10X25	2.50
10X24	2.50
10X23	2.50
10X22	2.50
10X21	2.50
10X27	2.50
10X28	6.00
10X29	5.50

Prest-O-Lite 5-in-1 Outfit PRICE EACH

30X03	890905	\$27.75
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Prest-O-Lite 4-in-1 Outfit

30X06	890895	20.00
402 Torch Handle		4.50
401 Precision Handle		7.00

Wall Shields and Torches PRICE EACH

Cat. No.	Stock No.	Description	PRICE EACH
320G	897257	Shield	\$13.30
579	897258	Shield	29.00
41	897259	Torch	17.00
42	897260	Torch	18.50
331	897261	Torch	9.50
331-S	897262	Torch	9.75

Wall Furnaces PRICE EACH

50	897255	Furnace	\$44.00
55	897256	Furnace	21.00

SECTION **U** CHAIRS—BOOTHS—PAYSTATIONS

Issue Date: 4-15-57

PAGE **3U**

Leather Seat and Back

Cat. No.	Stock No.	PRICE EACH
SC-500-1	897330	\$41.15
SC-500-3	897332	41.65
SC-500-5	897334	42.25
SC-500-7	897336	42.85

Cane Seat with Leather Back

Cat. No.	Stock No.	PRICE EACH
SC-500-2	897331	\$49.35
SC-500-4	897333	49.75
SC-500-6	897335	50.45
SC-500-8	897337	51.00

PAGE **4U**

Cane Seat with Upholstered Back

Cat. No.	Stock No.	PRICE EACH
List 4	897339	\$60.20
List 8	897341	60.25
List 10	897343	61.20
List 12	897345	62.55

Upholstered Seat and Back

Cat. No.	Stock No.	PRICE EACH
List 3	897338	\$51.50
List 7	897340	51.60
List 9	897342	52.50
List 11	897344	53.85
SC-624	894600	One Size Only. Leather Seat and Back w/Casters w/Gliders
		36.80
		35.80

Casters:

1½" stem type hard wheel	\$1.75
1½" stem type soft wheel	2.00
2" stem type hard wheel casters	2.10
2" stem type soft wheel casters	2.50
2" stem type hard wheel ballbearing	3.70
2" stem type soft wheel ballbearing	3.70

1¼" spring glides, per set of 4	\$.90
Sockets, per set of 4	.90

When ordering casters and sockets be sure to include the price of both. When ordering chairs equipped with casters, add the price of the casters only to the price of the chair.

PAGE **4.5U**

Executives' Chairs

Cat. No.	Stock No.	Leather	Elastic Versitan or Cloth
1200-G	897346	\$66.40	\$62.80
840-G	897347	29.60	—

PAGE **5U**

Churchill Telephone Booths

Cat. No.	Stock No.	PRICE EACH
100-A	893419	\$298.00
100-B	893420	298.00

If unfinished booth is desired deduct \$5.00.

Seat available at \$7.00 each.

500	895864	Outdoor	Discontinued
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Model A-1 Handi-Booth

Cat. No.	Stock No.	PRICE EACH
A-1	897263	\$175.00
A-1A	897264	185.50
A-1B	897265	185.50

Burgess Acousti-Booths

Cat. No.	Stock No.	PRICE EACH
211	894680	\$265.00

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Sherron Telephone Booths

PRICE EACH

Model 18-S type 1A* (Replaces Model 18-S type 1 discontinued.) 893433 (Indoor) \$265.00 ea. Plus \$15.00 Packing and Crating Charge.

*Model 18-S type 1-A is essentially the same design as the discontinued Model 18-S type 1 except that it includes the translucent plastic hinged ceiling assembly as standard equipment.

Model 15-S type 1 (outdoor) 895865.....	\$250.00
Complete including Packing and Crating.	
Model 17-S type 1 with Peaked or Flat Roof....	275.00
Model 17-S type 1 with Plastic Astra-Dome.....	305.00
Model 17-S type 7 with Peaked or Flat Roof.....	300.00
Model 17-S type 7 with Plastic Astra-Dome.....	330.00
Model 17-S type 2 (illustrated) with Astra-Dome.	415.00
Model 17-S type 2 with Peaked or Flat Roof.....	385.00
Add \$25.00 Packing and Crating Charge to all Model 17 type Booths.	
Model 25-S type 2 with Peaked or Flat Roof.....	\$475.00
Model 25-S type 2 with Astra-Dome.....	505.00
Model 25-S type 1.....	discontinued

Benner-Nawman Outdoor Aluminum Booth

PRICE EACH

Stock No.

895784	Knocked Down	Type A.....	\$344.99
		B.....	362.15
		C.....	359.15
		D.....	376.32

F.O.B. Oakland, California.

Alcoa Outdoor Aluminum Telephone Booth

PRICE EACH

Cat. No.

Stock No.

AL 1-55020B-KD	895783	Knocked Down (cont. shelf)....	\$440.00
AL 2-55020B-KD	895783	Knocked Down (directory rack).	445.00

Freight allowed to destination.

Burgess Indoor Booths

PRICE EACH

Model 45.....	\$110.00
Floor Stand for Model 45 Booth	
897266.....	91.00
Model 601.....	110.00
Model 602.....	90.00

Telephone Booth Masts

Cat. No.	Stock No.	
TBM-12	895868.....	42.50
TBM-14	895869.....	44.50
TBM-12S	895870.....	64.50
TBM-14S	895871.....	66.75
TBM-12SL	895872.....	84.50
TBM-14SL	895873.....	87.50
SM-122	895874.....	11.75

(Prices for 16' and 17' Masts are available on request.)

Gladwin Illuminated Telephone Booth Roof	
897267.....	\$ 28.75

Telephone Signs

PRICE EACH

Cat. No.	Stock No.	
1161	893506.....	\$ 8.50
1163	893507.....	5.55
1R-1	895734.....	4.50
1R-2	895735.....	5.00
1R-3	895736.....	2.85

Gladwin Tri-Directional Signs

PRICE EACH

Cat. No.	Stock No.	
T-1145	897268.....	\$ 22.50
T-1146	897269.....	29.75
T-1149	897270.....	22.50
T-1150	897271.....	

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

Issue Date: 4-15-57

Pay Stations		PRICE EACH	
Cat. No.	Stock No.		
†11	893478	\$29.90	Note: Ringer Boxes. For No. 1260 See Section A. For No. 1261 See Section D.
†11J	893479	36.40	
23J	893484	51.30	

†Locks and Signal Transmitter included in price.

Pay Stations and Accessories			PRICE EACH	
Cat. No.	Stock No.			
*92	894929	Manual	\$126.25	*Lock, Card Holder, Signal Transmitter, handset, dial and extended dial plate included in these prices. Any specified make of dial and handset will be furnished.
*92	894930	Automatic	134.05	
*94	894931		110.15	Add price of coin receptacle, selected from list below, to prices shown.
*96	894932		143.95	
*98	894933		114.75	

Pay Stations for 10-cent Service		PRICE EACH
Cat. No.		
92-55	Pre-Paystation	\$151.55
96-10	Semi-Postpay	157.95

Pay Station Conversion Kits for 10-cent Service				PRICE
	Service	New Chute	Dial Change	
<i>Prepay Type Automatic</i>				
50G, 150G, 150G3, 75A, 75C, 34A9, 62, 92, 34A9-N1	Two nickel or dime	Yes (1)	No	\$22.85
62-C, 92-C	Two nickel or dime	No (2)	No	17.50
<i>Semi-Postpay Automatic</i>				
66, 34A-11, 750, 34A-11-N1	Dime only	No (4)	Yes (3)	17.50
96	Dime only	No (4)	No	17.50
66-C, 96-C	Dime only	No (2)	No	14.00

- (1) Where new chutes are required a credit of \$2.00 each net will be allowed for the return, transportation prepaid to manufacturer of each old chute on a one-for-one basis.
- (2) Paystations having a "c" suffix are already equipped with new coin chutes and, therefore, new chutes are not required for conversion to ten-cent service.
- (3) Semi-postpay types in this category require a dial shunt spring change. New dials are recommended, which are priced at \$6.25 each.
- (4) New chute covers only are required. Old covers are not returnable. Delivery of all types of kits can be made 60-90 days after receipt of order.

Pay Station Accessories		PRICE		PRICE EACH	
Cat. No.	Stock No.		Cat. No.	Stock No.	
6001-A	893501	Coin Receptacle Each	2-A	893500	Coin Receptacle \$ 1.05
6001-B	893502	Coin Receptacle Each	139-A	893503	Shelf Bracket 6.80
P-50197	894934	Lead Seals Per M	153-A	893504	Corner Bracket 6.25
P-50649	894935	Sealing Tool Each			

Anti-Stuffing Coin Return Kits and Jig		
Cat. No.	Stock No.	PRICE
P-70293	897201	Kit Each \$ 2.00
P-70294	897202	Jig 150.00*

*This Drill Jig is used to properly install Anti-Stuffing Device to Pay stations.

Cancelling Sheet Dated: 1-1-56

All prices subject to change without notice

SECTION V METERS

Issue Date: 4-15-57

PAGE 3v

Sterling Pocket Meters		<u>PRICE EACH</u>
<i>Cat. No.</i>	<i>Stock No.</i>	
24	892100.....	\$ 1.45
34	892101.....	1.65
44	892102.....	2.00

Stewart Midget Detecto-Meters			<u>PRICE EACH</u>
<i>Cat. No.</i>	<i>Stock No.</i>	<i>Scale</i>	
D-1	894665	Detecto-Meter	0-6.0 Volts \$20.00
D-1	892069	Detecto-Meter	0-1.5 Volts 18.00

Stewart Heavy-Duty Test Set and Exploring Coil Amplifier			
Model H	892073	12 lb. Stewart Test Set.	85.00
Model E	895222	Exploring Coil Amplifier	65.00

PAGE 4v

Stewart Cable Tester		<u>PRICE EACH</u>
	<i>Stock No.</i>	
Model L-1	892070.....	\$ 83.00

Stewart Tester and Locator Combined		
Model A	892071.....	112.00

Stewart Transistor Oscillator		
Model J	897199.....	85.00

Stewart Dual Electrolysis Voltmeter		
Model G	897200.....	185.00

Volt-Ohm-Mil-Ammeters		<u>PRICE EACH</u>
	<i>Stock No.</i>	
	894802	Triplett Model 625-NA..... \$54.50

PAGE 5v

Model 564 Type 3-C Weston Volt-Ohmmeter		<u>PRICE EACH</u>
	<i>Stock No.</i>	
	892087	\$64.50
	Leather Case.....	9.00

Volt-Ohm-Mil-Ammeters		
894801	Triplett Model 666-HH.....	27.50
	Carrying Case.....	6.10

Model 689 Weston Ohmmeters		
892084	Type 1E.....	29.75
892085	Type 1F.....	28.25
	Leather Carrying Case.....	11.00

Model 4300 Telohm		<u>PRICE EACH</u>
	<i>Stock No.</i>	
	892088	\$17.50
	Carrying Case.....	3.50

Simpson Volt-Ohmmeter		
895768	No. 355 Midgetester.....	29.95
895769	Carrying Case No. 6355.....	2.95

PAGE 6v

L and N Wheatstone Fault Location Bridges		<u>PRICE EACH</u>
	<i>Stock No.</i>	
892098	Carrying Case No. 5431.....	\$ 35.25
892097	No. 5430-A Type U.....	198.00

Simpson Instruments		
<i>Cat. No.</i>	<i>Stock No.</i>	
260	894976.....	38.95
372	894977.....	25.50

Dillon Dynamometers		<u>PRICE EACH</u>
	<i>Stock No.</i>	
	893409	0-500 Pounds..... \$ 116.00
	893410	0-1000 Pounds..... 116.00
	893411	0-2500 Pounds..... 116.00
	893412	0-3500 Pounds..... 123.00
	893413	0-5000 Pounds..... 132.00
	893414	0-7500 Pounds..... 140.00
	893415	0-10,000 Pounds..... 147.00
	893416	0-15,000 Pounds..... 176.00

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

**L and N Wheatstone
Fault Location Bridges** PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
5300	892099	Type S.....	\$170.00
5431	892098	Leather Case.....	35.25

Shallcross Test Sets PRICE EACH

695	892096		112.00
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**No. 614-A Shallcross
Telephone Service Meter** PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
	894816		\$165.00

No. 629 Shallcross Cable Fault Location Bridge PRICE EACH

629	894817		191.00
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Shallcross Transmission Test Equipment PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
691-A	892092		\$ 60.00
690	892094		43.50
355	892093		46.50
692	892091		172.00

Matthews Woodpecker Telefault PRICE EACH

Type L	892075		\$86.00
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Northeast Transmission Test Sets PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
Model O	897169		\$125.00
Model 1A	897170		350.00
Model 1B	897171		350.00
Model 3	897172		925.00

Northeast Transmission Test Sets PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
Model 1037A	897178	} Price on Application	
Model 1037B	897178		
Model 1041A	897176		
Model 1041B	897177		
Model 1060A	897174		\$475.00
Model 1060B	897175		425.00
Model 1 Bleeper	897168		35.00

Northeast Instruments PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
Model 1	897179	Tacholite.....	\$ 70.00
Model 1	897173	Reference Generator..	270.00

Benjamin Factory Non-Weatherproof Howlers PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
8755	892123	12V.....	} \$13.15
8755	892124	24V.....	
8755	892125	110V.....	
8755	892126	220V.....	} 18.25
8795	892131	12V.....	
8795	892132	24V.....	
8795	892133	110V.....	} 11.80
8795	892134	220V.....	
8741	892135	12V.....	
8741	892136	24V.....	
8741	892137	110V.....	
8741	892138	220V.....	

Benjamin Heavy Duty Weatherproof Howlers PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
8546	892111	12V.....	} \$15.85
8546	892112	24V.....	
8546	892113	110V.....	
8546	892114	220V.....	} 21.05
8590	892119	12V.....	
8590	892120	24V.....	
8590	892121	110V.....	
8590	892122	220V.....	

Benjamin Weatherproof Fire Alarm Howlers PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
8566	892143	110V.....	} \$15.85
8566	892144	220V.....	

Benjamin Mine Type Howlers

<u>Cat. No.</u>	<u>Stock No.</u>		
8652	892139	12V.....	} 15.85
8652	892140	24V.....	
8652	892141	110V.....	
8652	892142	220V.....	

Benjamin Telecode Relays PRICE EACH

For Panel Mounting

<u>Cat. No.</u>	<u>Stock No.</u>		
8313-P	892145	.....	} \$12.65
8313-C	892146	.....
8313-L	892147	.....	14.25

With Explosion Proof Box—Less Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
8319-P	892153	.....	} 16.80
8319-C	892154	.....
8319-L	892155	.....	18.50

With Explosion Proof Box with Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
8320-P	892156	.....	21.05
8320-L	892157	.....	22.60

With Pressed Steel Box—Less Condenser PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
8315-P	892148	.....	} \$12.65
8315-C	892149	.....
8315-L	892150	.....	14.25

With Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
8316-P	892151	.....	15.80
8316-L	892152	.....	18.50

Benjamin Telecode Relay with Water Tight Box Less Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
8322-P	892158	.....	} 15.20
8322-C	892159	.....
8322-L	892160	.....
8322-L	892160	.....	16.80

With Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
8323-P	892161	.....	19.45
8323-L	892162	.....	21.05

Oasis Dehumidifier

<u>Cat. No.</u>	<u>Stock No.</u>		
J-20B	895161	.....	128.25

Faraday Marlo Bells and Buzzers PRICE EACH

<u>Cat. No.</u>	<u>Stock No.</u>		
571	894806	} Price on application
572	894807	.....
573	894808	.....
570	894809	.....
570	894809	.....

Loud Ringing Bells

Less Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
53-A	896071	.....	\$14.55
53-C	896072	.....	14.70
53-F	896073	.....	15.15

With Condenser

<u>Cat. No.</u>	<u>Stock No.</u>		
53-A	896074	.....	17.25
53-C	896075	.....	17.40
53-F	896076	.....	17.85

Harmonic Loud Ringing Bells

<u>Cat. No.</u>	<u>Stock No.</u>		
198	24.80

PAGE 6W

Issue Date: 4-15-57

Dehumidifier Control		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
H-44A	897237	\$14.25

Armco Steel Buildings
 Price on application

Pyrene Fire Extinguishers		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
C-21	893509	\$13.70
C11P	895961	5.95
PDC-5P	897272	40.60
PDC-10P	897273	60.15

Pyrene Fire Extinguisher Fluid
 CR-2 893512 \$1.50 per qt.

PAGE 7W

Calculagraphs and Accessories		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
6	893434	\$155.00
33	893440	166.00
30	893438	150.00

Transformers
 893443 Single Unit... }
 893442 7 Unit..... } Prices on application

Portable Pedestal Mounting		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
	893444	\$20.00

Snap-on-Ribbons
 1.00
 Dozen lots \$8.00 per doz.

PAGE 8W

Dorson Toll Timer		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
	895686	\$39.50

Veeder-Root Counters		
<i>Cat. No.</i>	<i>Stock No.</i>	
A-102304	893418	9.15
A-107815	893417	4.90

Linemen's Rubber Gloves		
<i>Cat. No.</i>	<i>Stock No.</i>	
A	892651 (15000 Volt)	\$9.50 Pair
B	892652 (10000 Volt)	8.20 Pair

Leather Protectors		<i>PRICE</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
1055	892653	\$2.25 Pair
1260	892654	4.25 Pair

Rubber Glove Carrier
 1106 892656 3.80 each

Rubber Coated Cotton Gloves
 1041 894868 1.00 Pair

PAGE 9W

Neoprene Latex Clothing		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
534-L	894865	Jacket \$ 8.25
530-L	894866	Pants 7.00
661	894867	Hat 1.75

G-E Model 150 Electric Cleaner		<i>PRICE</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
895690		Complete w/attachments \$134.00 each
		Cleaner only 99.50
		Attachments only 34.50

Lyon Metal Cabinet
 5401-7 894992 Locker \$ 89.75 each

PAGE 10W

Lyon Metal Cabinets		<i>PRICE EACH</i>
<i>Cat. No.</i>	<i>Stock No.</i>	
EX-1279	894988	Cord Cabinet \$40.70
EX-1278	894987	Material Cabinet 73.15
EX-1615-D	894989	Material Cabinet—On application

Cancelling Sheet Dated: 12-1-56

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STROMBERG-CARLSON

Issue Date: 4-15-57

Gould Multi-Lite, Rechargeable Flashlight and Battery PRICE EACH

Cat. No.	Stock No.		
2DRF-1	895983	All Chrome Case	} \$11.95
2DRF-2	895984	Two-tone Case	
2DRF-3	895985	Safety Case	
Charger only			4.70
Above Flashlights w/batteries only			7.25

Paragon Battery Boxes

2	890305	1.40
3	890306	1.65

Eveready Air Cells PRICE EACH

Cat. No.	Stock No.	
T-1600	894203	\$ 6.91
T-2600	894204	12.04
T-2300	894805	9.40

Retractable (Coiled Kords) Cords

5001-1	894826	} .80
5001-2	894827	
5001-3	894828	
5001-4	894829	
5001-5	894830	

Hands-Free Telephone PRICE EACH

Cat. No.	Stock No.		
1583-A	895826	With Dial	\$135.00*

F.O.B. Reading, Penna.

*Slight additional warehouse adder for Stock Shipment.

Gai-Phone PRICE EACH

Cat. No.	Stock No.		
100	895344	Desk Model	\$125.00*

F.O.B. Reading, Penna.

*Slight additional charge for Warehouse Stock Shipment.
212833 Package Assembly for wall conversion . . . \$2.35

Earphones and Headset Pads PRICE EACH

Stock No.		
895433	Headset & Earphone Pads—Complete	\$.65
895434	Earphone Pads only	.35
895435	Headset Pads only	.35

Telex Boom-Type Headset

No. 9650 Headset with No. 9259 Cord Unit—	
No Plug furnished	\$21.48

Specify Plug desired which will be furnished at extra cost.

Ruberoid Insulating Tape

894196	¼"	\$1.15 per lb.
894197	2"	1.15 per lb.

No. 1501 Friction Tape PRICE PER ROLL

Stock No.		1-99 Rolls	100-499	500 or more
890751	¼"	\$.50	\$.46	\$.42
890752	2"	1.35	1.25	1.12

SI Brand Plastic Electrical Tape PRICE

Cat. No.	Stock No.	
60	895693	¾x60' \$1.35 per roll

Okoprene Tape PRICE PER ROLL

Stock No.		Less than 200 Rolls	200 Rolls and over
894841	¼"	\$.90	\$.85

No. 33 Scotch Electrical Tape

	894913 20 Ft. Rolls Price per Roll	894837 66 Ft. Roll Price Per Roll
1-11 rolls	\$.55	\$1.50
12-47 rolls	.50	1.35
48-143 rolls	.44	1.20
144-575 rolls	.39	1.05

Manson Friction Tape PRICE PER ROLL

Stock No.		Less than 200 Rolls	200 Rolls and over
890753	¼"	\$.75	\$.70

Okonite Rubber Tape

890755	¼"	.85	.80
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Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

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Bi-Seal Self-Binding Tape

Cat. No.	Stock No.	Price
1/2" - 30'	895187	\$.94 per roll
3/4" - 30'	895188	1.38 per roll
1" - 30'	895189	1.78 per roll
2" - 30'	895987	3.56 per roll

Kearney Airseal

PRICE EACH

Cat. No.	Description	Price
18415	Box of 20 Pads 2 1/2" x 4"	\$1.65 box
18415-1	Box of 20 Pads 8" x 8"	9.50 box
18415-4	Box of 40 Pads 2" x 2 1/2"	1.75 box
18415-2	10 ft. Roll 2 1/2"	2.50 roll

Bishop Vinyl Electrical Tape No. 2—36 Yard Rolls

PRICE EACH

Stock No.	Width	Price
897294	1/2"	\$ 1.95
897295	3/4"	2.40
897296	1"	3.00
897297	1 1/2"	4.80
897298	2"	6.00

Bishop No. 125 Filler Tape

896077	1 1/2" width x 5 ft.	\$1.58 per roll
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Hi-Tape-Mate Winder

897279		\$ 3.75
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Holub Fish Tape—Less Reel

897280	HI-205	1.30
897281	HI-206	2.35

Holub Fish Tape—With Reel

897282	HI-140	2.85
897283	HI-200	7.10

Kearney Rust Cutter

PRICE PER CAN

19229	895237	\$ 1.00
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Rare Gas Relay

PRICE EACH

RTC 2	892163	\$ 3.62
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Kearney Non-Static Ground Wire Clip

PRICE PER HUNDRED

Cat. No.	Stock No.	Material	Price
12326	895235	Steel	\$ 2.59
12325	895236	Bronze	6.73

Kearney Guy Wire Clips

400	891768	3.80
36	891769	3.95
37	891770	4.05

Kearney Drop Wire Grips

PRICE

Cat. No.	Stock No.	Price	
		Less Than 1000	1000 or More
6715-1	893045	\$24.15	\$23.00

Kearney Lay-Cit Grips

PRICE PER HUNDRED

Cat. No.	Stock No.	Price	
		Less than 100	100 or over
19234	895035	\$66.00	\$60.00
19235	895036	71.50	65.00
19234-5	895226	} on application	
19235-5	895227		

Reliable Drop Wire Clamps

PRICE PER HUNDRED

Type P	893046	\$15.90
Type PS	894918	19.00
Type PR	895689	18.40

Reliable Drop Wire Clip

Type D	895292	2.60
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Reliable Testing Clips

PRICE EACH

No. 1	892188	\$.26
No. 2	892189	.24
No. 3	892190	.24

Issue Date: 4-15-57

Kearney Con-Nec-Tites		PRICE PER HUNDRED	
Cat. No.	Stock No.	In Standard Package Quantity (100)	
86-7	893092	\$19.10	
986-7	893093	20.70	
89-2	893094	20.40	
989-2	893095	23.10	
2451-7	893096	21.00	
2449-7	893097	22.70	
5894-7	893098	22.70	
Kearney Drop Wire Clips		Less than 500	500 or more
11452	894836	\$ 9.00	\$ 8.55

Reliable Bridging Connectors		PRICE PER HUNDRED	
Cat. No.	Stock No.		
9FG	893090	\$17.80	
9FGB	893091	19.50	
CR Service Connectors			
1	893081	8.40	
2	893082	10.50	
2	893083	10.50	
3	893084	14.70	
3	893085	14.70	
3A	893086	12.60	
3A	893087	12.60	

Universal Test Clips		PRICE EACH IN LOTS OF		
Cat. No.	Stock No.	Less than 10	10-99	100 or more
27	892181	\$.11	\$.08	\$.07
27	892182 with ins.	.28	.20	.17
50C	894927	.25	.18	.15
60-S	894108	.08	.06	.05
60HS	894109	.14	.10	.09

Universal Test Clips		PRICE EACH IN LOTS OF		
Cat. No.	Stock No.	Less than 10	10-99	100 or more
85	892185	\$.08	\$.06	\$.05
85	892186 with ins.	.18	.12	.10
45	892180	.07	.05	.05
48-B	892184	.08	.06	.05

Blake Staples		PRICE PER THOUSAND		
Cat. No.	Stock No.	Less than 5000	5000-10,000	10,000 or more
1	893070	\$1.95	\$1.70	\$1.50
3	893071	1.95	1.70	1.50
5	893072	1.95	1.70	1.50
6	893073	2.10	1.85	1.65

No. 1 Insulated Rhodestaples			
Stock No.			
895262	1/2"	} \$3.00 per M	
895263	3/4"		

No. 18 Nails—Perfection Type				
Stock No.		Less than 5000	5000-10,000	10,000 or more
893067	1/2"	} \$2.80	\$2.70	\$2.60
893068	3/4"			
893069	1/2"			

Washer Type Nails		PRICE	
Stock No.			
893076	1/2"	} \$2.50 per M	
893077	3/4"		

Diamond Hammer Drive Anchors		PRICE PER 100	
Stock No.			
890125	3/16" x 7/8"	\$ 4.32	
890126	3/16" x 1 1/4"	4.86	
890127	1/4" x 1"	5.40	
890128	1/4" x 1 1/4"	5.94	
890129	1/4" x 1 1/2"	6.48	
890130	3/16" x 1 1/4"	7.56	

Diamond Multi-Size Screw Anchors			
Stock No.			
890113	6 to 8 x 3/4"	3.40	
890114	10 to 14 x 1"	3.80	
890115	10 to 14 x 1 1/2"	5.44	
890116	16 to 18 x 1 1/2"	6.12	

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Diamond Toggle Bolts PRICE PER HUNDRED

Stock No.		Spring
890138	1/8" x 2.....	\$ 7.04
890139	1/8" x 3.....	7.92
890140	1/8" x 4.....	8.80
890142	3/16" x 3.....	8.36
890143	3/16" x 4.....	8.80
890144	3/16" x 5.....	10.56
890145	3/16" x 6.....	11.00
890146	1/4" x 3.....	9.24
890147	1/4" x 4.....	9.68
890148	1/4" x 5.....	12.32
890149	1/4" x 6.....	13.64

Common Nails—Hot Galvanized PRICE PER 100 LBS.

Cat. No.	Stock No.	Less than 100 lbs.	100 lbs. and over
6D	893621.....	} \$20.00	\$17.50
8D	893622.....		
10D	893623.....		
20D	893624.....		
30D	893625.....		
40D	893626.....		
50D	893627.....		
60D	893628.....	} 24.50	22.50
60D	893629 Stub.....		

Hi Plastic Screw Anchors PRICE PER HUNDRED

6 x 3/4"	\$ 1.20
6 x 1"	1.31
8 x 3/4"	1.46
8 x 1"	1.65
8 x 1 1/2"	1.99
10 x 3/4"	1.65
10 x 1"	1.88
10 x 1 1/2"	2.29
12 x 3/4"	1.99
12 x 1"	2.25
12 x 1 1/2"	2.66

(Prices on other sizes on request.)

Diamond Wing-Ding Anchors PRICE PER HUNDRED

7922	897167.....	\$ 5.53
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Issue Date: 4-15-57

Elco Iron Wood Screws (Specify Galvanized or Blued) Flat or Round Head

No.	Length	Standard Heads		Stock No.	Prices Per Gross	No.	Length	Standard Heads		Stock No.	Prices Per Gross
		Flat	Round					Flat	Round		
6	3/8	✓	✓	893542	\$1.00	12	3/8	✓	✓	893585	\$ 1.80
	1/2	✓	✓	893543	1.04		7/8	✓	✓	893586	1.96
	3/4	✓	✓	893544	1.08		1	✓	✓	893587	2.12
	3/4	✓	✓	893545	1.12		1 1/4	✓	✓	893588	2.30
	7/8	✓	✓	893546	1.20		1 1/2	✓	✓	893589	2.54
	1	✓	✓	893547	1.32		1 3/4	✓	✓	893590	2.84
	1 1/4	✓	✓	893548	1.50		2	✓	✓	893591	3.14
	1 1/2	✓	✓	893549	1.66		2 1/4	✓	✓	893592	3.46
	1 1/2	✓	✓	893550	1.08		2 1/2	✓	✓	893593	3.78
	1 1/2	✓	✓	893551	1.12		3	✓	✓	893594	4.80
7	3/4	✓	✓	893552	1.20	3 1/2	✓	✓	893595	5.84	
	7/8	✓	✓	893553	1.28	1	✓	✓	893596	2.62	
	1	✓	✓	893554	1.40	1 1/4	✓	✓	893597	2.96	
	1 1/4	✓	✓	893555	1.54	1 1/2	✓	✓	893598	3.30	
	1 1/2	✓	✓	893556	1.70	1 3/4	✓	✓	893599	3.64	
	1 1/2	✓	✓	893557	1.16	2	✓	✓	893600	3.98	
	1 1/2	✓	✓	893558	1.20	2 1/4	✓	✓	893601	4.34	
	1 1/2	✓	✓	893559	1.28	2 1/2	✓	✓	893602	4.84	
	1 1/2	✓	✓	893560	1.36	3	✓	✓	893603	6.00	
	1 1/2	✓	✓	893561	1.46	3 1/2	✓	✓	893604	7.16	
8	1 1/4	✓	✓	893562	1.62	4	✓	✓	893605	8.00	
	1 1/2	✓	✓	893563	1.80	1 1/4	✓	✓	893607*	3.92	
	1 3/4	✓	✓	893564	2.00	1 1/2	✓	✓	893608	4.34	
	2	✓	✓	893565	2.20	1 3/4	✓	✓	893609	4.75	
	2 1/2	✓	✓	894177*	2.62	2	✓	✓	893610	5.16	
	2 1/2	✓	✓	893566	1.42	2 1/2	✓	✓	893611	6.34	
	2 1/2	✓	✓	893567	1.50	3	✓	✓	893612	7.50	
	2 1/2	✓	✓	893568	1.58	3 1/2	✓	✓	893613	8.35	
	2 1/2	✓	✓	893569	1.74	4	✓	✓	893614	9.15	
	2 1/2	✓	✓	893570	1.96	1 1/2	✓	✓	893615	5.30	
9	1 3/4	✓	✓	893571	2.18	2	✓	✓	893616	6.40	
	2	✓	✓	893572	2.38	2 1/2	✓	✓	893617	7.90	
	2 1/2	✓	✓	893573	2.80	3	✓	✓	893618	9.40	
	2 1/2	✓	✓	893574	1.58	3 1/2	✓	✓	893619	10.45	
	2 1/2	✓	✓	893575	1.66	4	✓	✓	893620	11.70	
	2 1/2	✓	✓	893576	1.74						
	2 1/2	✓	✓	893577	1.92						
	2 1/2	✓	✓	893578	2.12						
	2 1/2	✓	✓	893579	2.34						
	2 1/2	✓	✓	893580	2.56						
10	2 3/4	✓	✓	893581	2.80						
	3	✓	✓	893582	3.04						
	3	✓	✓	893583	3.54						
	3 1/2	✓	✓	893584	4.92						

Cancelling Sheet Dated: 12-1-56

All prices subject to change without notice

STROMBERG-CARLSON

Diamond Drive Rings PRICE PER HUNDRED

<i>Size</i>	<i>Stock No.</i>	
1/2"	893078	\$ 1.20
3/8"	893079	2.20
1/4"	893080	3.20

Bridle Rings

<i>Style</i>	<i>Stock No.</i>	
	<i>Galvanized</i>	
A	893052	7.50
C	893053	6.50
E	893054	3.00
F	893055	27.00

(Enameled Rings on application)

Flexiducts PRICE

<i>Cat. No.</i>	<i>Stock No.</i>		<i>Less Than 100'</i>	<i>100' or Over</i>
1	895728 (100' per carton)	\$.35 per ft.		\$.33 per ft.
2	895729 (50' per carton)	.53 per ft.		.50 per ft.
3	895730			\$.50 each
4	895731			.50 each
5	895732			.50 each
6	895733			.50 each

Angle Screws PRICE PER HUNDRED

<i>Size</i>	<i>Stock No.</i>	
5/16"	891230	\$10.35
3/8"	891231	17.10

Insulated Screw Eyes

3/4-S	891232	9.24
3/4-L	891233	10.92
1-S	891234	15.54
1-L	891235	16.80

T-5 Stapling Tacker

<i>Cat. No.</i>	<i>Stock No.</i>	
TS-8	895264	\$11.95 each
\$STCR-5019	895265	2.90*

*Per Box of 5000 Staples.

\$When ordered in less than 5000 quantity price at .75c per M

T-25 Arrow Staple Tacker PRICE

<i>Cat. No.</i>	<i>Stock No.</i>	
T-25 Tacker	897074	\$12.00 each
T-25 Staples	897075	3/8" 4.50 per box*
T-25 Staples	897076	7/16" 4.50 per box*
T-25 Staples	897077	1/2" 5.00 per box*

*Packaged 5000 per box.

Telephone Instrument Sample Case PRICE

896040	\$20.00 each
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