

WANT RED CARPET SERVICE?

order items with "S" numbers!

Items with ordering numbers having an "S" prefix are normally carried in stock at our warehouses. Hence, you can expect faster delivery on them. "S" stands for stock. It also stands for speed.

HARDWARE

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GTE AUTOMATIC ELECTRIC

NORTHLAKE, ILLINOIS 60164

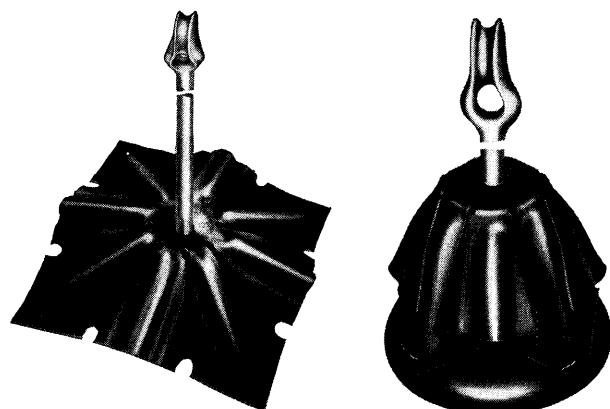
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8-Way Expanding Anchors



Expanded

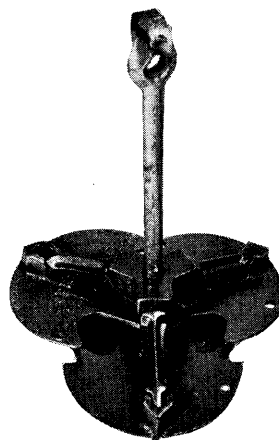
Closed

Eight steel blades expand to form a square, distributing the load evenly over the entire anchor area. There are no non-holding areas between blades—no wasted space.

Furnished with nut retainer, and coated with special asphalt paint to guard against corrosion.

Ordering No.	Type	Hole Size In.	Rod Size Inches	Expanded Area Sq. In.	Std. Pkg.	Wt. Lbs. per 100	Price Each
S-510103	6870	6	1/2 or 5/8	70	12	509	\$2.00
S-510110	88100	8	5/8 or 3/4	100	6	900	2.60
S-510111	88115	8	5/8 or 3/4	115	6	892	2.75
S-510112	88135	8	5/8 or 3/4	135	6	997	2.80
S-510113	1082	10	1	200	4	1821	5.05

Expanding Anchors



Popular, easily installed anchors. A hole is dug and anchor dropped to bottom and expanded by striking with tamping bar. Requires little effort. For use with standard galvanized anchor rods.

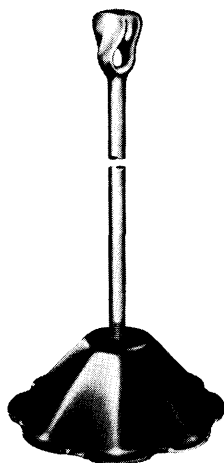
Three-Way Anchors

Ordering No.	Type	Size In.	Max. Rod Size In.	Expanded Area Sq. In.	Wt. Lbs. per 100	Std. Pkg.	Price Each
S-510101	633	6	5/8	65	800	3	\$3.65
S-510106	836	8	3/4	110	1400	2	5.85
S-510107	8310	8	3/4	125	1500	2	6.15

Four-Way Anchors

Ordering No.	Type	Size In.	Max. Rod Size In.	Expanded Area Sq. In.	Wt. Lbs. per 100	Std. Pkg.	Price Each
S-510109	84-1	8	1	132	1600	2	\$ 7.20
S-510114	104	10	1	210	2900	1	12.35
S-510116	124	12	1 1/4	310	5000	1	18.85

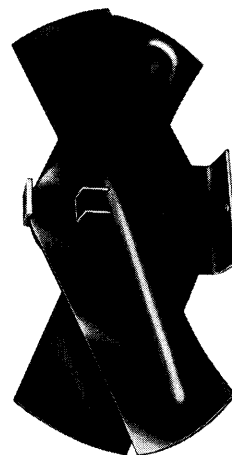
8-Way Steel Cone Anchors



With nut retainer. Order rods separately. Corrosion-resistant black asphalt paint finish.

Ordering No.	Anchor Diam., Inches	For Rod Dimen.	Std. Pkg.	Wt., Lbs. per 100	Price Each
S-510080	8	5/8-in. x 7-ft.	5	283	\$1.58

Expanding Pole Key Anchors

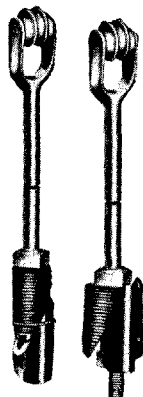


Keys poles at their butt to reinforce them against unbalanced loads in soft soil. Expands easily in solid earth and eliminates the need of a trench for installing a wood key.

Ordering No.	Width Expanded, Inches	Blade Width, Inches	Std. Pkg.	Wt., Lbs. per 100	Price Each
S-510130	27 1/4	7	1	2300	\$7.90

Anchor Adapters

Ordering No.	Description	Std. Pkg.	Price per 100
S-510005	For 1-3/4-in. rod.	25	On App.
S-510006	For 1 1/4-1-in. rod.	25	On App.



Expanding Rock Anchors

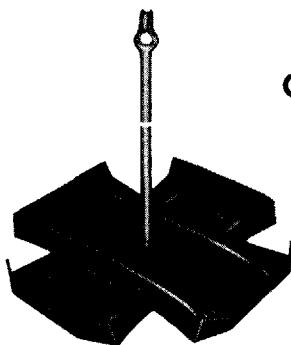
Requires no grouting. For anchoring in crumbly rock, set anchor at back angle; in extremely soft rock, concrete may sometimes be needed to prevent rock from crumbling. Wedging action holds anchor securely in place.

Large drop-forged Thimbleye rod permits use of one, two or three strands and also permits use of steel rod for turning and expanding anchor.

Anchor is malleable iron, dipped in rust-resistant black paint.

Closed Expanded

Ordering No.	Type	Rod Size INCHES Diam. Lgth.	Anchor Size In.	Std. Pkg.	Wt., Lbs. per 100	Price Each
S-510162	R330	3/4 30	1 3/4	5	671	\$5.30
S-510164	R353	3/4 53	1 3/4	5	972	5.95



Cross Plate Anchors

Two structural steel plates, heavily ribbed reinforced. Anchor can be easily installed in either diagonal or vertical holes.

Ordering No.	Type	—DIMEN., IN.— Dia- gonal Square	Area Sq. In.	Rod Size In.	Wt., Lbs. per 100	Price Each
*S-510146	X-16	16 13	150	5/8 or 3/4	992	\$3.05
**S-510145	X-20	20 16 1/2	250	5/8 or 3/4	1631	4.55
**S-510144	X-20-1	20 16 1/2	250	1	1631	4.55
†S-510148	X-24	24 22 1/2	400	1	3335	8.65
†S-510149	X-24-1	24 22 1/2	400	1 1/4	3335	8.65

*Std. pkg. 6.

**Std. pkg. 4.

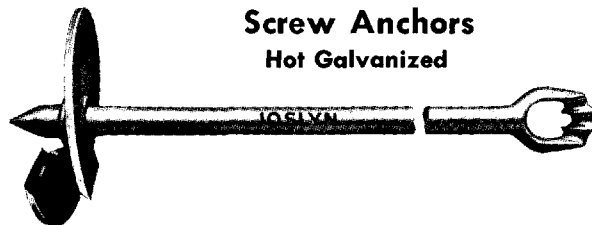
†Std. pkg. 1.

Swamp Screw Anchors

Anchor hubs and nuts are threaded to receive standard threaded pipe. Extra sections of pipe may be added for deep installations. Pipe not furnished.

Ordering No.	Helix Diam., Inches	Pipe Size, Inches	Std. Pkg.	Wt., Lbs. per 100	Price Each
S-510255	15	2	1	3300	\$21.10

Screw Anchors Hot Galvanized



Provides a large holding area in undisturbed earth. Requires no special tools to install. Rod of high-carbon steel with helix hot forged to the rod.

Triple Thimbleye

Ordering No.	Helix Diam., In.	Rod Diam., In.	Overall Length, Ft.	Std. Pkg.	Wt., Lbs. per 100	Price Each
S-510204	4	3/4	4 1/2	5	805	\$3.25
S-510211	10	1 1/4	8	1	4107	11.20

Single Thimbleye

S-510186	6	3/4	5 1/2	1	1087	\$3.75
S-510188	8	1	5 1/2	1	1910	6.25

Power-Installed Screw Anchors

Hot Galvanized

Consists of one or two helixes, rod and eyenut.

With Single Helix

Ordering No.	Description	Helix Diam., Inches	Rod Diam. and Lgth.	Std. Pkg.	Wt., Lbs. Per 100	Price Each
S-510220	With Thimbleye	10	1/2-in. x 7-ft.	6	1693	\$ 8.10
S-510221	With Thimbleye	11 5/16	5/8-in. x 7-ft.	4	2386	9.55

With Twin Helix

S-510228	With Twineye	8	3/4-in. x 7-ft.	1	4402	15.75
S-510230	With Tripleye	10	1-in. x 7-ft.	1	5200	19.45

Anchor Rods

Hot Galvanized

Eliminates need for guy thimbles. Rod ends conform to the curvature of the guy strand—can be pulled tight without distortion. Drop-forged steel. Fitted with square nut.



Thimbleye Rods

Ordering No.	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515955	1 1/2	5	10	340	\$128.82
S-515957	1 1/2	7	10	480	155.56
S-515965	5/8	5	10	550	166.58
S-515966	5/8	6	10	650	182.57
S-515967	5/8	7	10	750	203.03
S-515968	5/8	8	5	860	225.72
S-515975	3/4	8	5	1260	335.60
S-515976	3/4	9	5	1380	381.70
S-515987	1	10	2	2800	729.60

Prices are subject to change without notice.

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Anchor Rods—Cont.



Twineye Rods

Ordering No.	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-516026	5/8	6	10	650	\$186.05
S-516027	5/8	7	10	750	204.99
S-516028	5/8	8	5	850	227.88
S-516037	3/4	7	5	1110	307.16
S-516038	3/4	8	5	1260	336.70
S-516036	3/4	9	5	1400	375.90
S-516047	1	10	2	2800	783.92



Tripleye Rods

Ordering No.	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515996	3/4	9	5	1420	\$ 402.69
S-516007	1	10	2	2850	749.05
S-516014	1 1/4	10	1	4400	1230.60

Reliable Strandvises

With Rigid Stainless Steel Bail



With Short Bail



With Long Bail

For quick, easy dead-ending of guy wire. Strandvise is a feed-through type. A pilot cup in the nose of the Strandvise guides strand all the way through gripping jaws of steel. Tension is applied with a hoist and strand grip as strand is fed through strandvise at anchor eye.

For All-Grades

With Short Bail for Eyes and Hooks

Ordering No.	Type	Strand Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-513011	5099	3/16	50	24	\$100.00
S-513012	5100	1/4	50	45	130.00
S-513013	5101	5/16	50	74	160.00
S-513014	5102	3/8	50	106	162.00

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Prices are subject to change without notice.

Universal Strandvise

With Short Bail for Eyes and Hooks

Ordering No.	Type	Strand Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-522310	5200	.215-.270	50	62	\$130.00
S-513025	5201	.270-.315	50	85	200.00
S-513027	5203	.392-.455	25	135	300.00

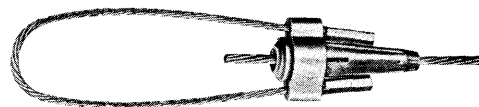
With Extra Long Bail for Eyes and Hooks

S-513024	5200-L	.251-.270	50	82	\$180.00
S-513026	5201-L	.270-.315	50	126	200.00

Available with long bail. Information on request.

Reliable False Deadend Strandvises

With Flexible Bail



Ordering No.	Type	Strand Size Inches	Lgth. False Deadend In.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-522316	5175	5/16	18	25	104	\$204.19
S-522317	5176	3/8	18	25	168	280.00

Reliable Strandlinks



For fast, easy splicing of steel strand messenger and changing guy installations. Splice is made quickly, without tools, by pushing ends of strand into the link. Makes a permanent splice that is stronger than the strand itself. Streamlined design permits cable spinning machines to pass over splice without delays.

All-Grades Strandlink

Ordering No.	Type	Strand Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-526599	4999	3/16	50	17	\$ 90.00
S-526600	5000	1/4	50	33	120.00
*S-526601	5000N	1/4	50	38	170.00
S-526602	5001	5/16	50	62	140.00
S-526603	5002	3/8	50	88	180.00
S-526607	5043	7/16	25	114	240.00
S-526608	5004	1/2	25	144	273.82

*Neoprene covered. May be used with Figure 8 Cable.

Universal Strandlink

S-526604	5040	.215 to .270	50	67	\$130.00
S-526605	5041	.270 to .315	50	91	160.00

Reliable Reducer Strandlinks

For All-Grades



Ordering No.	Type	Strand Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-526609	5021	5/16 to 1/4	50	52	\$160.00
S-526610	5022	3/8 to 5/16	50	82	170.00

Reliable Wirelink and Wirevise Tension Splices and Deadends

Automatic Type



Wirevise



Wirelink

For Communications Steel, Copper and Copperweld Wires

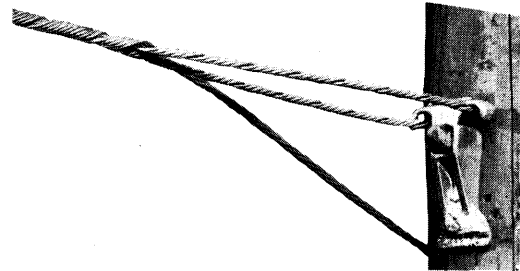
Heat-treated aluminum tubes with case-hardened, triple-protected steel jaws. Deadend has aluminum yoke and stainless steel bail. Standard package, 25.

Wirevises					
Ordering No.	Type	Wire Size	Std. Pkg.	Ship. Wt., Lbs. per 100	Price per 100
® S-531285	5058	{ 12 BWG-9, 10 AWG .102-.114 }	100	9	\$59.00
S-522314	5062	{ 11 BWG (Any Grade) 10 BWG (Except 190 Grade) 2500 Lbs. Max., .120-.134 }	100	15	90.00
Wirelinks					
*® S-537360	5059N	{ 12 BWG-9, 10 AWG .102-.114 }	100	6	78.00
*S-537361	5063N	{ 11 BWG (Any Grade) 10 BWG (Except 190 Grade) 2500 Lbs. Max., .120-.134 }	100	10	87.00

*Polyolefin covered. ®REA (Telephone) Approved.

False Deadends

For Alumoweld Strand



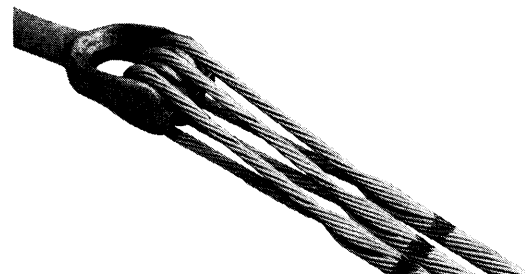
Ordering No.	—Diam., In.— Min. Max.	Nomi- nal Size	Length, Inches	Color Code	Std. Pkg.	Price Each
S-522307	.237 .247	6M	31	Yellow	25	\$1.20

For Galvanized Steel Strand

Ordering No.	Strand 7-Wire, In.	Mean Diam., In.	Length, Inches	Color Code	Std. Pkg.	Price Each
S-522303	1/4	.250	36	Yellow	25	\$1.39
S-522304	5/16	.327	39	Black	25	1.55
S-522305	3/8	.360	42	Orange	25	1.81
S-522306	7/16	.435	48	Green	25	2.55

Guy-Grip® Deadends

For Alumoweld Strand



Ordering No.	Mean Diam., In.	Nominal Strand Size	Length, Inches	Color Code	Std. Pkg.	Wt., Lbs. per Pkg.	Price Each
S-513114	{ .247 .242 }	{ 3 #9 6M }	22	Yellow	50	20	\$.76
S-513115	{ .311 .306 }	{ 3 #7 10M }	26	Black	50	29	1.00
S-513116	{ .392 .385 .386 }	{ 3 #5 3/8-in.-7 #8 16M }	32	Orange	50	55	1.48

For Type C Galvanized Steel

Ordering No.	Size, In.	STRAND Mean Diam., In.	Length, Inches	Mat. Ident. Mark	Color Code	Std. Pkg.	Wt., Lbs. per Pkg.	Price Each
S-513104	1/4	{ 3W .259 7W .240 }	25	Orange	Yellow	50	24	\$.67
S-513105	5/16	{ 3W .312 7W .312 7W .327 }	31	Orange	Black	50	39	.88
S-513106	3/8	{ 3W .356 7W .360 }	35	Orange	Orange	50	51	1.00
S-513107	7/16	7W .435	38	Orange	Green	25	50	1.71

Prices are subject to change without notice.

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Big-Grip Deadends

For Type C Galvanized Steel Strand

Ordering No.	Size, In.	STRAND		Length, Inches	Mat. Ident. Mark	Color Code	Std. Pkg.	Wt., Lbs. per Pkg.	Price Each
		Const.	Mean Diam., In.						
S-513108	1/2	{ 7W 19W }	{ .495 .500 }	45	Orange	Blue	25	64	\$2.14

Strand Splices

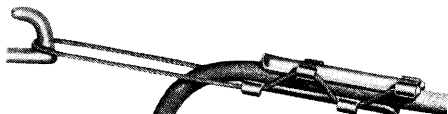
Galvanized Steel For Utility Grade Strand

Ordering No.	Size, In.	STRAND		Length, Inches	No. of sub-sets	Color Code	Std. Pkg.	Wt., Lbs. per Pkg.	Price Each
		Const.	Mean Diam., In.						
S-526623	3/8	7W	.360	34	3	Orange	50	42	\$1.31

Galvanized Steel For Extra Strength Strand

S-526625	1/4	{ 3W 7W }	{ .259 .240 }	35	2	Yellow	50	34	\$1.11
S-526626	5/16	{ 3W 7W }	{ .312 .327 }	42	3	Black	50	46	1.41

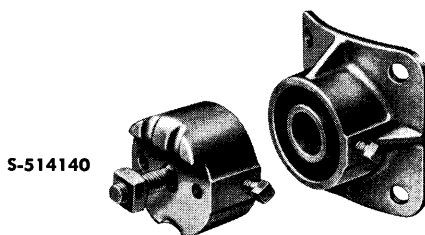
Lay-Cit Cable Grips



Contoured plates securely grip either round or oval cable without damaging the insulation. Holding pressure is evenly distributed over a large area, and is proportional to conductor tension. The plates are aluminum, 4-inches long, and have knurled inner surfaces for high holding power, even on synthetic jacketed cables. Easily installed on continuous runs by removing the flexible cable bail from the side hooks on the plates.

Ordering No.	Round Cable Diameter, In.		Oval Cable Diameter, In.		Std. Pkg.	Wt., Lbs. per 100	Price per 100
	Max.	Min.	Max.	Min.			
S-522591	5/8	3/8	25/64 x 39/64	11/32 x 1/2	50	19	\$99.00
S-522592	1 1/8	5/8	43/64 x 1 3/64	25/64 x 21/32	10	25	109.00

Sidewalk Guy Fittings



S-514140

S-514144

Ordering No.	Description	Pipe Size, Inches	Std. Pkg.	Wt., Lbs. Per 100	Price per 100
S-514144	Pole Plate	2, 2 1/2	20	475	\$347.01
S-514140	Clamp Bolt End Fitting	2, 2 1/2	20	360	315.31

Forged Angle Thimbleys

Hot Galvanized



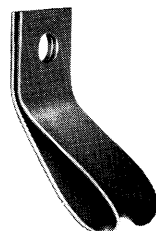
Generally used with a machine bolt for messenger guy wire attachment, or for guy attachment on the cross arm bolt.

Accommodates up to 1/2 in. diameter guy strands.

Ordering No.	Hole Diam. In.	Bolt Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-514080	1 1/16	5/8	50	118	\$67.70
S-514081	1 3/16	3/4	50	115	62.88

One-Bolt Guy Attachments

Hot Galvanized



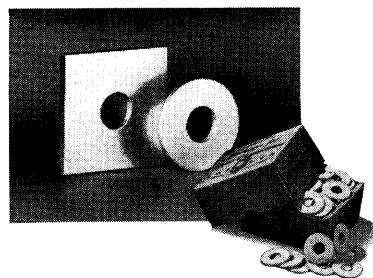
Constructed with rounded wire grooves to give the strand safe bending radius.

Single hole accommodates strands up to 1/2-inch diameter.

Ordering No.	Size, In.	Hole Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-518205	2 x 1 1/8	1 1/16	100	80	\$31.54

Round and Square Washers

Hot Galvanized

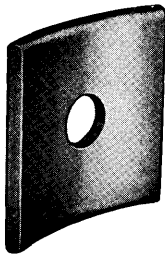


Round Washers

Ordering No.	O.D. In.	Hole Diam. In.	Bolt Diam. In.	Thick Gauge BW	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-519061	1	7/16	3/8	14	5000	1.6	\$7.4
S-519062	1 1/4	9/16	3/8	14	2500	2.4	1.21
S-519063	1 3/8	9/16	1/2	12	1500	4.2	1.58
S-519064	1 3/4	1 1/16	5/8	10	1000	8.5	3.06

Square Washers

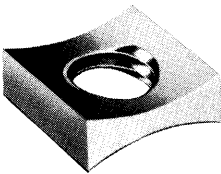
Ordering No.	Size Inches	Hole Diam. In.	Bolt Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-519101	2 x 2 x 1 1/8	9/16	1/2	500	15.0	\$3.90
S-519102	2 x 2 x 1 1/8	1 1/16	5/8	500	13.8	3.90
S-519103	2 1/4 x 2 1/4 x 3/16	1 1/16	5/8	250	26.0	6.12
S-519104	2 1/4 x 2 1/4 x 3/16	1 1/16	3/4	250	25.2	6.12
S-519106	3 x 3 x 3/16	7/8	5/8 or 3/4	100	50.0	14.35



Curved Washers

Hot Galvanized

Ordering No.	Size, In.	Hole Diam. In.	Bolt Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-519000	2 1/4 x 2 1/4 x 1/4	1 1/16	5/8	200	26	\$7.91
S-519002	2 1/2 x 2 1/2 x 3/16	1 1/16	5/8	250	34	8.31
S-519004	3 x 3 x 1/4	1 1/16	5/8	100	67	16.72
S-519005	3 x 3 x 1/4	1 3/16	3/4	100	62	16.72
S-519010	3 1/2 x 3 3/8 x 3/8	7/8	3/4	50	125	34.14
S-519011	3 1/2 x 3 1/2 x 3/8	1 1/8	1	50	122	96.43



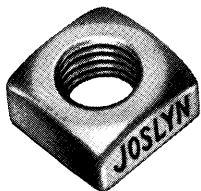
Square M-F Lock Nuts

For Static-Proof Installations

Hot Galvanized Steel

Ordering No.	Bolt Size, In.	Width, Inches	Thick., Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515389	1/2	1 3/16	1 9/16	4000	2.3	\$2.44
S-515390	5/8	1	3/8	2500	4.3	3.41

Galvanized Nuts



For Machine, Carriage, and Double Arming Bolts

Ordering No.	Bolt Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515363	3/8	1000	2.7	\$1.70
S-515364	1/2	1000	5.7	2.76
S-515365	5/8	500	13.0	5.05
S-515366	3/4	500	15.0	7.23

For Anchor Rods

Ordering No.	Rod Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515375	5/8	500	13.6	\$ 6.00
S-515376	3/4	500	24.0	13.03

Forged Eye Nuts



S-524404



S-524415

Hot Galvanized

For use on double arming bolts, straight and angle eye bolts, cross arm bolts and other attachments to convert a standard threaded bolt to an eye bolt. Commonly used for dead-ending a messenger strand or span guy.

Ordering No.	Bolt Diam., In.	Max. Strand Diam., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-524404	1/2	1/2	50	126	\$57.81
S-524405	5/8	1/2	50	116	57.81
S-524406	3/4	1/2	50	110	62.88
S-524408	1	5/8	50	162	158.25
S-524415	5/8	5/8	50	150	118.15
S-524416	3/4	5/8	50	150	126.49
S-524418	1	5/8	50	150	122.48

Angled Thimbleye Bolts

Hot Galvanized



For use instead of guy hooks and strain plates. Eliminates the necessity of wrapping wire around pole. Furnished with buffer points for quick, easy threading or hammering out without damaging threads.

Minimum breaking strength:

5/8-in. diameter, 14,000 pounds.

3/4-in. diameter, 20,000 pounds.

1-in. diameter, 40,000 pounds.

For strains of 8,000 pounds or more, use with Curved Lift Plates, page A-13. Furnished with nuts.

Ordering No.	Diam. In.	Length In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-511908	5/8	8	50	130	\$65.20
S-511910	5/8	10	50	144	71.00
S-511912	5/8	12	50	162	71.95
S-511914	5/8	14	25	184	75.22

Hook Bolts

Hot Galvanized



For use with Pole Extension Fixture and drop wire clips or clamps. Furnished with three nuts.

Ordering No.	Length Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550624	4	50	8	\$25.00

Prices are subject to change without notice.

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Machine Bolts

Hot Galvanized



Ordering No.	Size, In.	Thread Lgth., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-511203	$\frac{3}{8}$ x1 $\frac{1}{2}$	1 $\frac{1}{4}$	1000	8.3	\$5.26
S-511204	$\frac{3}{8}$ x 2	1 $\frac{3}{4}$	1000	9.6	5.37
S-511206	$\frac{3}{8}$ x 3	3	500	13.1	6.91
S-511208	$\frac{3}{8}$ x 4	3	500	15.0	8.99
S-511210	$\frac{3}{8}$ x 5	3	250	19.1	9.55
S-511212	$\frac{3}{8}$ x 6	3	250	21.2	10.23
S-511218	$\frac{3}{8}$ x 8	4	250	28.0	20.72
S-511220	$\frac{3}{8}$ x10	4	250	34.1	21.14
S-511222	$\frac{3}{8}$ x12	4	200	39.0	25.44
S-511224	$\frac{3}{8}$ x14	4	200	46.0	40.71
S-511305	$\frac{1}{2}$ x 2 $\frac{1}{2}$	2 $\frac{1}{4}$	250	21.6	11.67
S-511306	$\frac{1}{2}$ x 3	2 $\frac{3}{4}$	250	23.8	12.22
S-511308	$\frac{1}{2}$ x 4	3	250	28.1	13.30
S-511311	$\frac{1}{2}$ x 5	3	200	36.0	14.56
S-511316	$\frac{1}{2}$ x 6	3	200	40.5	15.51
S-511318	$\frac{1}{2}$ x 8	4	100	52.0	23.16
S-511320	$\frac{1}{2}$ x10	6	100	61.0	24.63
S-511322	$\frac{1}{2}$ x12	6	100	70.0	27.48
S-511326	$\frac{1}{2}$ x16	6	100	91.0	33.07
S-511405	$\frac{5}{8}$ x 2 $\frac{1}{2}$	2 $\frac{1}{4}$	250	39.1	17.47
S-511407	$\frac{5}{8}$ x 3	2 $\frac{3}{4}$	100	43.3	24.40
S-511412	$\frac{5}{8}$ x 6	3	100	68.0	24.27
S-511416	$\frac{5}{8}$ x 8	4	100	82.0	28.01
S-511420	$\frac{5}{8}$ x10	6	50	98.0	32.34
S-511422	$\frac{5}{8}$ x12	6	50	112.0	36.82
S-511424	$\frac{5}{8}$ x14	6	50	128.0	39.93
S-511426	$\frac{5}{8}$ x16	6	50	146.0	45.63
S-511428	$\frac{5}{8}$ x18	6	50	162.0	49.53
S-511430	$\frac{5}{8}$ x20	6	50	170.0	53.22
S-511432	$\frac{5}{8}$ x22	6	25	188.0	60.50
S-511434	$\frac{5}{8}$ x24	6	25	206.0	65.15
S-511510	$\frac{3}{4}$ x10	6	50	146.0	54.23
S-511512	$\frac{3}{4}$ x12	6	50	164.0	59.45
S-511514	$\frac{3}{4}$ x14	6	50	184.0	63.83
S-511516	$\frac{3}{4}$ x16	6	25	212.0	71.21
S-511518	$\frac{3}{4}$ x18	6	25	240.0	75.75
S-511520	$\frac{3}{4}$ x20	6	25	262.0	84.56

Double Arming Bolts

Hot Galvanized

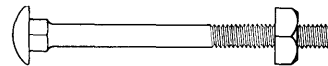


Used with four square washers in the approved method of tying two cross arms together. For correct length allow two inches for washers and nuts, add twice the thickness of the cross arm, plus diameter of pole (less depth of gain). Full length thread for ease of replacement and added flexibility. Furnished with nuts but not with washers.

Ordering No.	Size, Inches	Std. Pkg.	Wt. Lbs. per 100	Price per 100	Ordering No.	Size, Inches	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-510910	$\frac{5}{8}$ x10	50	130	\$51.70	S-510918	$\frac{5}{8}$ x18	25	192	\$66.36
S-510912	$\frac{5}{8}$ x12	50	136	53.44	S-510920	$\frac{5}{8}$ x20	25	204	69.63
S-510914	$\frac{5}{8}$ x14	50	154	56.97	S-510922	$\frac{5}{8}$ x22	25	220	73.59
S-510916	$\frac{5}{8}$ x16	50	176	62.67	S-510924	$\frac{5}{8}$ x24	25	234	77.12

Carriage or Brace Bolts

Hot Galvanized



Standard heads, square nuts, finished points and rolled threads. Furnished without washers.

Ordering No.	Size, Inches	Thread Lgth., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-510557	$\frac{3}{8}$ x 4	3	250	16.2	\$8.18
S-510558	$\frac{3}{8}$ x 4 $\frac{1}{2}$	3	250	17.3	8.60
S-510559	$\frac{3}{8}$ x 5	3	250	19.6	9.07
S-510566	$\frac{3}{8}$ x 6	3	250	21.6	9.76
S-510568	$\frac{3}{8}$ x 8	4	250	26.4	17.57
S-510570	$\frac{3}{8}$ x10	4	200	36.8	19.31
S-510572	$\frac{3}{8}$ x12	6	200	42.0	20.78
S-530625	$\frac{1}{2}$ x 5	3	200	33.7	13.50
S-530626	$\frac{1}{2}$ x 6	3	200	40.5	14.51
S-530636	$\frac{5}{8}$ x 6	3	100	65.0	23.21

Flat Head Stove Bolts

Hot Galvanized



Ordering No.	Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550642	$\frac{5}{16}$ x2	1000	6.6	\$7.06
S-550643	$\frac{5}{16}$ x3	1000	9.0	9.70
S-550644	$\frac{5}{16}$ x3 $\frac{1}{2}$	1000	9.3	10.06

Galvanized Slotted Round Head Stove Bolts

With Square Nuts

Ordering No.	Size, Inches	Std. Pkg.	Price per 100
S-520595	$\frac{3}{16}$ x1	100	\$1.49
S-550638	$\frac{1}{4}$ x2	100	3.15
S-550641	$\frac{5}{16}$ x1	100	3.94
S-550645	$\frac{5}{16}$ x2	100	5.08
S-550646	$\frac{5}{16}$ x2 $\frac{1}{2}$	100	5.73

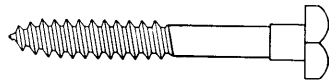
Galvanized Cut-Thread Machine Bolts

With Square Nuts

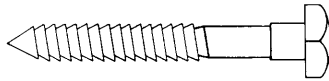
Ordering No.	Size, Inches	Std. Pkg.	Price per 100
S-422280	$\frac{1}{4}$ x1	100	\$2.77
S-550630	$\frac{3}{8}$ x2 $\frac{1}{2}$	100	7.83
S-550631	$\frac{1}{2}$ x3	100	16.64

Lag Screws

Hot Galvanized



Gimlet Point



Regular Point with Fetter Drive Thread

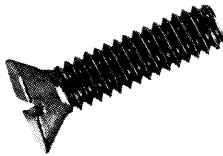
Gimlet Point

Ordering No.	Size Inches	Thread Lgth., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-516203	1/4x2	1 1/2	2000	2.7	\$4.17
S-516204	1/4x2 1/2	1 3/4	2000	3.5	4.85

Regular Point

S-516226	3/8x3	2 1/4	1000	9.9	6.06
S-516228	3/8x4	2 5/8	500	12.8	6.75
S-516238	1/2x4	2 5/8	250	24.0	9.55

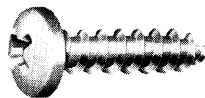
Flat Head Bright Steel Machine Screws



Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 1000	Price per 1000
S-557058	1/4-20 x 1-in.	200	15	\$14.50

Pan-Head, Self-Tapping Screws

Type A—Cadmium Plated



Ordering No.	Description	Length, Inches	Std. Pkg.	Price per 1000
S-557063	No. 6	3/8	100	\$5.28
S-557065	No. 6	5/8	100	4.53
S-557068	No. 6	1	100	6.71
S-557084	No. 8	1/2	100	6.50
S-557085	No. 8	5/8	100	5.83
S-557086	No. 8	3/4	100	7.30
S-557088	No. 8	1	100	6.71
S-557092	No. 8	1 1/2	100	10.03
S-557095	No. 10	3/4	100	7.00
S-557096	No. 10	1	100	10.30

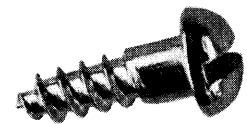
Galvanized Flat Head Wood Screws

Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 1000	Price per 1000
S-557099	No. 8, 1-in.	100	4.72	\$6.09
S-557101	No. 14, 1 1/2-in.	100	15.48	16.30
S-557102	No. 14, 2-in.	100	20.13	19.90
S-557103	No. 16, 2 1/2-in.	100	30.61	32.60
S-557105	No. 18, 2 1/2-in.	100	37.13	37.90
S-557106	No. 18, 3-in.	100	44.00	47.50
S-557107	No. 18, 3 1/2-in.	100	50.80	51.90

Galvanized Round Head Wood Screws

Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 1000	Price per 1000
S-557125	No. 6, 1/2-in.	100	1.80	\$5.00
S-557126	No. 6, 3/4-in.	100	2.50	5.78
S-557128	No. 6, 1-in.	100	3.26	6.58
S-557130	No. 6, 1 1/2-in.	100	4.72	7.66
S-557132	No. 6, 2-in.	100	6.18	10.23
S-557138	No. 8, 1/2-in.	100	2.64	5.30
S-557139	No. 8, 5/8-in.	100	3.12	5.73
S-557140	No. 8, 3/4-in.	100	3.68	5.05
S-557142	No. 8, 1-in.	100	4.72	5.81
S-557143	No. 8, 1 1/4-in.	100	5.76	8.40
S-557144	No. 8, 1 1/2-in.	100	6.80	7.81
S-557146	No. 8, 2-in.	100	8.88	10.39
S-557148	No. 8, 2 1/2-in.	100	10.97	12.68
S-557149	No. 10, 3/4-in.	100	5.07	6.90
S-557150	No. 10, 1-in.	100	6.45	6.64
S-557151	No. 10, 1 1/4-in.	100	7.84	9.21
S-557152	No. 10, 1 1/2-in.	100	9.30	8.74
S-557153	No. 10, 1 3/4-in.	100	10.69	12.80
S-557154	No. 10, 2-in.	100	12.08	11.29
S-557155	No. 10, 2 1/4-in.	100	13.46	14.04
S-557156	No. 10, 2 1/2-in.	100	14.92	13.85
S-557158	No. 10, 3-in.	100	17.70	21.06
S-557160	No. 14, 1-in.	100	10.90	10.48
S-557162	No. 14, 1 1/2-in.	100	15.48	13.34
S-557164	No. 14, 2-in.	100	20.13	16.24
S-557168	No. 14, 2 1/2-in.	100	24.71	25.10
S-557170	No. 14, 3-in.	100	29.29	29.05
S-557171	No. 16, 1 1/2-in.	100	19.29	22.10
S-557172	No. 16, 2-in.	100	24.91	27.30
S-557180	No. 18, 1-in.	100	16.73	20.20
S-557181	No. 18, 1 1/2-in.	100	23.53	26.60
S-557182	No. 18, 2-in.	100	30.33	32.00

Round Head Stainless Steel Wood Screws



Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 1000	Price per 1000
S-557190	No. 8 x 1 1/2-in.	200	2 1/2	\$29.69

Prices are subject to change without notice.

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Type 18-8 Stainless Steel Wood Screws

In One Gross Boxes

Round Head

Ordering No.	No.	Size	In.	Wt., Lbs. Per Gross	Price per 1000
S-557186	6		3/4	.36	\$25.56
S-557187	6		1	.47	31.25
S-557190	8		1 1/2	.38	29.69
S-557191	8		3/4	.53	35.54
S-557192	8		1	.68	34.70
S-557193	8		1 1/2	.98	45.80
S-557196	10		3/4	.73	35.20
S-557197	10		1	.93	51.56

GALVANIZED STAPLES

For Ground Wire

Slash Point

Ordering No.	Length Inches	Inside Width Inches	Diameter Inches	Std. Pkg.	Wt., Lbs. per Ctn.	Price per 100
S-517505	5/16	1 1/2	9 BWG	100	\$21.27
S-517502	1 1/2	1/4	.148	3650	50	20.49

Rolled Point

Ordering No.	Length Inches	Inside Width Inches	Diameter Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-517506	1 1/2	3/8	.148	250	1 1/4	\$1.64

Galvanized Common Nails



Ordering No.	Size	Length In.	Gauge	Std. Pkg.	Approx. No. per Lb.	Price per 100 Lbs.
S-515017	4d	1 1/2	12 1/2	50	294	\$24.68
S-515018	6d	2	11 1/2	50	167	18.86
S-515020	10d	3	9	50	66	18.36
S-515023	30d	4 1/2	5	50	22	18.31
S-515026	60d	6	2	50	10	18.26

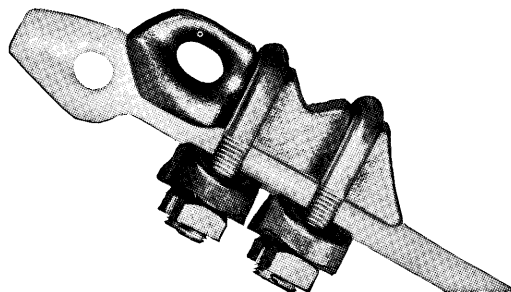
For Moulding

Rolled Point

Ordering No.	Length Inches	Inside Width Inches	Diameter Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-526721	3	1 1/16	1/4	50	7	\$5.51

Auxiliary Eyes with Square Nuts

Hot Galvanized



Body and plates of malleable iron; U-bolts and nuts of hi-strength steel. Thimble diameter, 1 1/2-in.

Ordering No.	Anchor Rod Diam. In.	Max. Strand Size In.	Ult. Rating Lbs.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-514090	5/8-3/4	1/2	18,000	25	280	\$257.00
S-514091	7/8-1	1/2	18,000	25	360	308.00

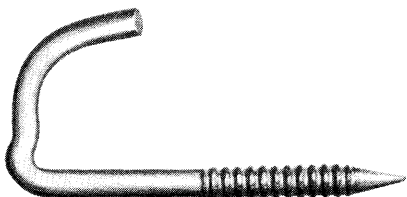
Galvanized No. 7 Station Wire Nails

For Jacketed Wire



Ordering No.	Length, Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 1000
S-555198	7/8	100	19	\$2.20

Galvanized Moulding Staples



Ordering No.	Length Inches	Inside Width Inches	Diameter Inches	Price per 100
S-526720	1 7/8	1 1/16	3/16	\$2.25

A-10

Prices are subject to change without notice.

Pole Steps

Hot Galvanized

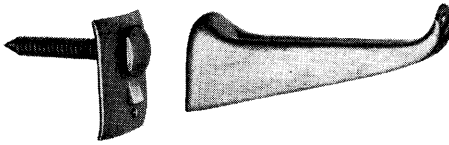


Standard Hook Type

Ordering No.	Diam. In.	Length In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-517530	5/8	9	100	85	\$29.12
S-517531	5/8	10	100	94	31.12

Detachable Pole Steps

Hot Galvanized

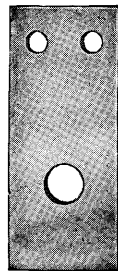


Step slips over groove in each side of steel lag screw and is prevented from turning by lug on bottom of poleplate. Easily removed.

Ordering No.	Description	Lag Screw Size Inches	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-515720	Pole Plate and Lag Screw only	2 3/4 x 2 1/4 x 3/16	100	66	\$37.70
S-578234	Detachable Step only	5 1/2	100	61	49.06

Curved Lift Plates

Hot Galvanized



Used under angle thimbles to distribute the strain over a greater area. They fasten to pole with half-inch lag screws.

3-Hole Plates

Ordering No.	Bolt Diam., In.	Plate Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515712	3/4	2 1/2 x 7 x 1/4	50	126	\$37.20

Guard Arm Braces

Hot Galvanized

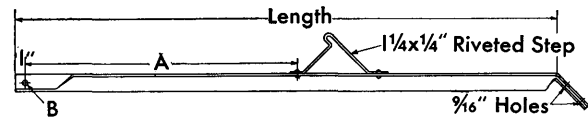


Shaped with half-twist, of 1 1/32 by 1/4-inch steel. 1/16-inch hole for 3/8-inch carriage bolt, 3/16-inch hole for 1/2-inch lag screw.

Ordering No.	DIAM. HOLE, IN.— Straight End Bent End	Lgth., Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-512545	1/16 3/16	18	50	170	\$67.04

Alley Arm Braces

Hot Galvanized

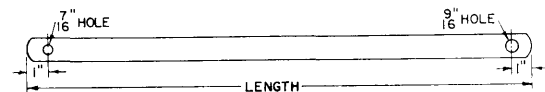


Used to support lines on one side of a pole only, or, where pole must be offset to avoid angle in line. Furnished with linemen's steps. Use two 1/2-inch lag screws for attaching to pole, and one 1/2-inch machine bolt for attaching to cross arm.

Ordering No.	Lgth. Ft.	Angle Size In.	DIMEN., IN.— A Lgth. B Diam. Hole	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-512537	7	1 3/4 x 1 3/4 x 3/16	30 1 1/16	1	1750	\$580.99
S-512525	5	1 3/4 x 1 3/4 x 3/16	30 1 1/16	1	1300	438.23

Steel Flat Cross Arm Braces

Hot Galvanized



Punched at both ends—one end with 7/16-inch hole for carriage bolt; the other end with 9/16-inch hole for lag screw.

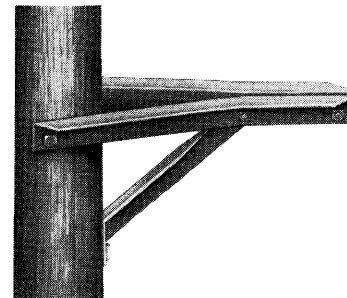
1 1/2 x 1/2 Inch Size

Ordering No.	Length In.	For Arms With Brace Bolt Spacing, Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-512626	26	33	20	185	\$48.53
S-512630	30	42	20	200	55.23

Other sizes available on special order.

Cable Extension Arms

Hot Galvanized



Supports cable at a distance from the pole. Attached at top by 5/8-inch through bolt; lower brace is fastened by lag screws. Cables are attached by means of a 5/8-inch machine bolt with washer under head and with Three-Bolt Cable Suspension Clamp under the arm. Placed in flat position, suspension clamp holds cable firmly when the 5/8-inch machine bolt is drawn tight.

Ordering No.	Extension from Center of Pole, Inches	Angle Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-510326	17 1/2 to 26	3 x 2 1/2 x 1/4	1	3000	\$1228.65
S-510344	26 1/2 to 44 1/2	3 1/2 x 2 1/2 x 5/16	1	5900	2234.38

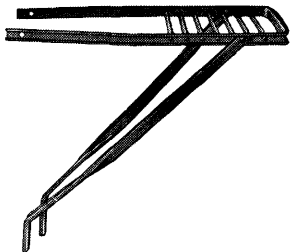
Prices are subject to change without notice.

A-11

Pole Extension Fixtures

Used in obtaining clearance for drop wires. Channel steel 7½ feet long, with holes top and bottom. Lightweight, easy to install.

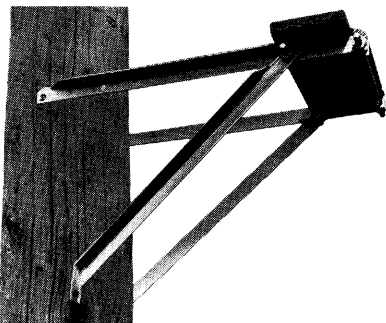
Ordering No.	Length Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-514071	90	1	1800	\$647.71



Steel Pole Seats

Strong, rigid, lightweight. Capable of supporting ¾ ton. Steel frames and braces are made of one-inch by half-inch channel steel. Seat bars are of ¾-inch square steel, secured to frame; no projecting ends. Riveted joints are relieved of all strain. Bars are placed corner up to prevent slipping. Mounted with lag screws.

Ordering No.	Seat Size, In.	Std. Pkg.	Wt., Lbs. Each	Price per 100
S-524816	12x11	5	13	\$997.60



Type S Pole Seats

Used with Type BF Cable Terminals. Angled steel frame and diagonal braces. Wood platform seat.

Ordering No.	Dimensions, Inches	Std. Pkg.	Wt., Lbs.	Price Each
S-524815	8 x 20	1	27	\$24.75



Insulator Supports

Economical support for fastening porcelain and glass insulators to steel I and H beam flanges, and for suspension of conduit, etc. No drilling. Permanent or temporary installation.

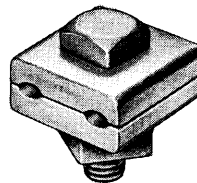
Ordering No.	Base Size, Inches—Width	Base Size, Inches—Lgth.	Jaw Opening, Inches	Tapping of Base & Back Holes	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-557488	1½	1¼	1½	¼-20	100	28	\$25.48
S-557489	1½	1¼	1½	10-24	100	28	25.48
S-557490	¾	1½	¾	10-24	100	15	34.30
S-557491	¾	1½	¾	¼-20	100	15	34.30

A-12

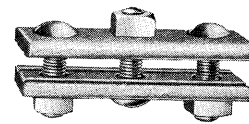
Prices are subject to change without notice.

Guy Clamps

Hot Galvanized



One-Bolt Type



Three-Bolt Type

Straight, smooth, parallel grooves offer greater clamping area than any other design, and will not damage the guy strand.

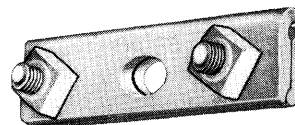
Holes are elliptical to prevent turning when nut is tightened. Three-bolt clamps are assembled with center bolt reversed to provide ample wrench clearance.

Ordering No.	No. Bolts	Length Inches	Width Inches	Strand Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
*S-512887	1	1½	1½	¾ to ¾	100	67	\$28.01
S-512891	3	4	1½	¾ to ¾	50	174	61.19
S-512892	3	6	1½	¾ to ¾	25	236	77.07
S-512889	2	4	1½	¾ to ½	50	168	74.30
S-512890	3	6	1½	¾ to ½	25	280	93.26

*Square bolt head and bolt hole.

Cable Suspension Clamps

Hot Galvanized



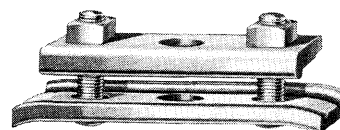
For heavy cables and long spans. With two ½-inch high-carbon steel bolts. Center hole for through bolt. When attaching to pole, place a nut and square washer between pole and the clamp to provide clearance for cable. Where cables are mounted on both sides of the poles, double arming bolts are used instead of through bolts.

—CENTER HOLE—

Ordering No.	Diam. In.	For Through Bolt In.	Length In.	Strand Size In.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-521740	1½	5/8	5¾	¼ to ¾	25	196	\$69.52
S-521746	1½	5/8	5½	¼ to ¾	25	190	95.00
S-521748	1½	5/8	5½	¾ to ¾	25	216	80.90

Curved Cable Suspension Clamps

Three-Bolt Type—Hot Galvanized



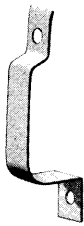
Similar to Cable Suspension Clamp S-521740. Curved messenger grooves at either end support and relieve strain on strand when line is set at an angle or around corners. With two 5/8-inch high-carbon steel bolts. Center hole for through bolt.

—CENTER HOLE—

Ordering No.	Diam. In.	For Through Bolt In.	Length In.	Strand Size In.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-521749	1½	5/8	7	¾ to ¾	25	375	\$92.80
S-521754	1½	¾	6¾	¼ to ¾	20	280	165.00

Reinforcing And Safety Straps

For Suspension Clamps



S-527270



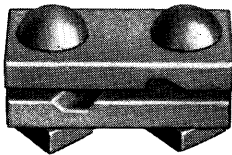
**S-527260
S-527261**

Hot Galvanized

Ordering No.	Type	Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-527270	Safety	1 3/4 x 1/8	100	75	\$57.28
S-527260	Reinforcing	1 3/4 x 1/8	200	52	24.53
S-527261	C-Reinforced	2 x 1/8	100	75	54.23

Crossover Clamps

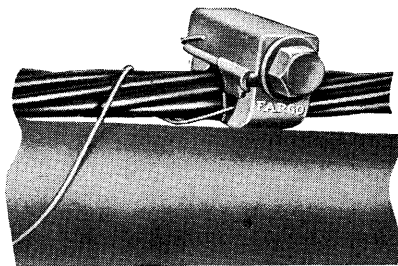
Hot Galvanized



For joining two messenger cables at right angles, where cables turn corners or where branch cables leave line at points distant from pole.

Ordering No.	Clamping Bolt Size, Inches	Strand Size In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-521580	1/2	5/16	50	154	\$102.91

Fargo Lashing Wire Clamps



Holds all sizes of lashing wire to its ultimate breaking strength. Fits messenger strands from 5/16 through 1/2 inch. Stainless steel spacer bar prevents small lashing wire from seating itself between strands of the messenger.

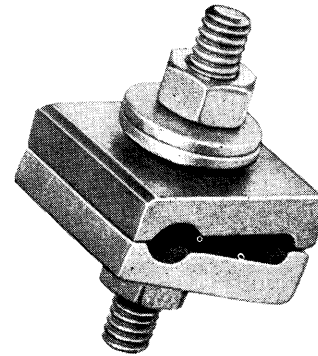
Made of malleable iron, hot tin dipped.

Tighten bolt with Socket Wrench S-579306. See Section D, Tools.

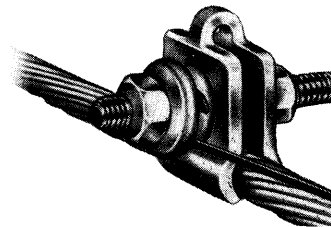
Ordering No.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-521761	50	16	\$41.89

Cable Lashing Clamps

Hot Galvanized



Type D



Type E

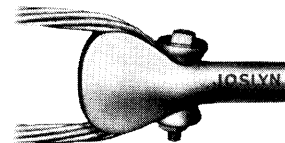
For securing cable lashing wire at end of span. Bolt end is peened over to prevent nuts running off. Can be securely attached to messenger before taking up tension on cable lashing wire. Square hole in plate and square shoulder under head of stud bolt prevent rotation of bolt while tightening clamp.

Tighten nuts with Socket Wrench S-579306. See Section D, Tools.

Ordering No.	Type	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-521760	E	100	11	\$15.54
S-521759	D	100	16	17.81

Guy Bonding Clamps

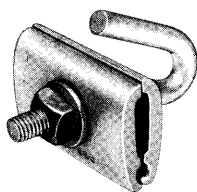
For Thimbleye Rods



Used with strand-eye rods to maintain firm contact between the guy strand and guy rod.

Ordering No.	Rod Size, Inches	Strand Size, Inches	Std. Pkg.	Wt. Lbs., per 100	Price per 100
S-512881	5/8, 3/4, 1	{ 1/4 to 3/8 5/16 to 7/16 3/8 to 1/2 }	500	18	\$21.26

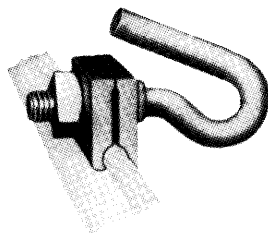
Prices are subject to change without notice.



Span Clamps

Supports service drops from bare strand and bare or covered Figure 8 cable. Groove accommodates $\frac{1}{4}$ - $\frac{1}{16}$ -in. strand.

Ordering No.	Type	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550955	T-985	50	57	\$54.00



Span Clamps

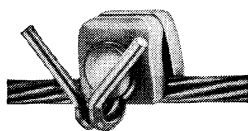
Hot Galvanized

Used for service connections at points between poles. Adaptable for either suspended or lashed cable.

Ordering No.	Type	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550952	C	100	39	\$36.82

Reliable Span Clamps

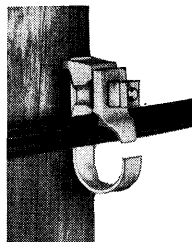
Galvanized Nut and Bolt



Ordering No.	Type	Strand Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550962	5580	$\frac{1}{4}$ - $\frac{1}{16}$	50	19	\$43.96
S-550961	5577	$\frac{1}{4}$ Fig. 8	50	19	41.82

Figure 8 IM Cable Hangers

For Integral Messenger Cable Hot Galvanized



Hook serves as a means of stringing cable and as a safety device. Clamping portion is designed for standard $\frac{1}{4}$ -inch messenger and will take all cable sizes up to and including 100 pair, No. 19.

Hangers can be mounted with standard $\frac{5}{8}$ -inch machine bolts requiring one $2\frac{1}{4}$ x $2\frac{1}{4}$ x $\frac{3}{16}$ -inch square washer, one extra square nut and one M-F locknut; or mounting bolt assemblies may be furnished for this purpose.

Ordering No.	Type	Description	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-523211	J-2235	Cable Hanger (Three Parts) . .	50	190	\$90.26

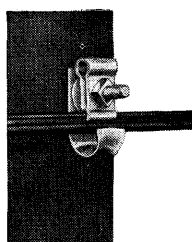


Figure 8 Cable Hangers

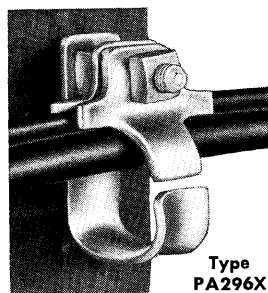
Hot Galvanized

For 2 to 12-pair distribution wire and 18-pair No. 22 wire. Clip will accommodate .109 or .134-in. solid messenger wire. Hanger is fastened to pole with a $\frac{1}{2}$ -in. machine bolt. Order bolt separately.

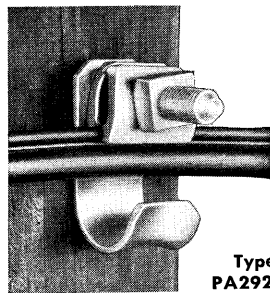
Furnished with two square nuts assembled, if specified.

Ordering No.	Type	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-523210	J-2208	Hanger, with Clip & Hook	100	56	\$31.95

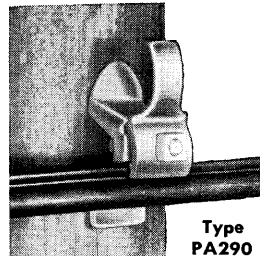
Figure 8 Cable Clamps



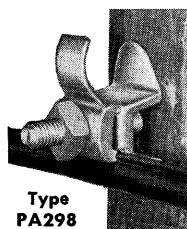
Type
PA296X



Type
PA292X



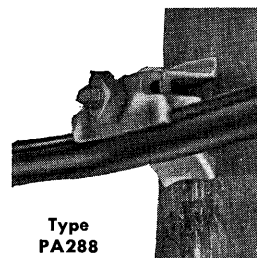
Type
PA290



Type
PA298

For all types and sizes of integral messenger cable and rural distribution wire installations.

Smooth, rounded surfaces eliminate the need for stringing blocks or damage to cable and wire covering. Teeth on curved pole contacting surface hold clamp in position and add stability.



Type
PA288

All clamps shown can be cross arm mounted with Type PA295 cross arm clamp bracket.

Mounting bolt diameter, $\frac{5}{8}$ inch; clamping bolt diameter, $\frac{5}{8}$ inch.

Type PA296X. Has curved groove. Tangent to 10-degree angles. Will handle up to 200 pair, 19 gauge. Messenger groove size, $\frac{1}{4}$ to $\frac{1}{2}$ inch; will clamp $\frac{1}{4}$ -inch messenger through $\frac{5}{16}$ -inch bare—with or without polyethylene covering.

Type PA292X. Has curved groove. Particularly suited for use with solid strand messenger to overcome fatigue caused by cable dancing. Tangent to 35-degree angles. Messenger groove size, $\frac{3}{32}$ to $\frac{1}{4}$ inch; will clamp .109-inch messenger up through .134-inch bare—with or without polyethylene covering.

Figure 8 Cable Clamps—Cont.

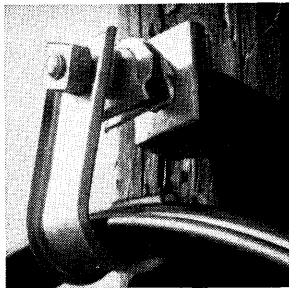
Type PA298. Tangent to 35-degree angles. Tapped body. Messenger groove size, $\frac{3}{32}$ to $\frac{1}{4}$ inch; will clamp .109-inch messenger up through .134-inch bare—with or without polyethylene covering.

Type PA290. Tangent to 10-degree angles. Tapped body. Messenger groove size, $\frac{1}{4}$ to $\frac{1}{2}$ inch; will clamp $\frac{1}{4}$ -inch messenger up through $\frac{5}{16}$ -inch bare—with or without polyethylene covering.

Type PA288. Heavy duty corner clamp designed for use on either inside or outside angles from 10 to 35 degrees. Not necessary to cut and dead end messenger. Tapped body. Messenger groove size, $\frac{1}{4}$ to $\frac{1}{2}$ inch; will clamp $\frac{1}{4}$ -inch messenger up through $\frac{5}{16}$ -inch bare—with or without polyethylene covering.

Ordering No.	Type	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-521742	PA296X	Tangent Clamp...	50	187	\$119.00
S-521743	PA292X	Tangent Clamp...	100	67	62.00
S-521753	PA298	Tangent Clamp...	50	85	75.00
S-521751	PA290	Tangent Clamp...	50	130	103.00
S-521744	PA288	Heavy Duty Corner Clamp.....	50	138	113.00

Tangent Supports



For Figure 8 Cable

Ordering No.	Type	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-521756	5582	Complete Support Without Bolt and Nut.....	50	52	\$95.74

Type B Clamp Supports

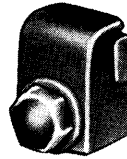
For adding a second cable on a pole. Support slips over $\frac{5}{8}$ -in. bolt supporting the original cable and accepts a cable suspension clamp. Not recommended where a curved suspension clamp is required.

Clamp (not included) rotates 90 degrees and serves as stringing finger for steel messenger. Teeth in heel pad resist vertical load. Hole in heel for $\frac{1}{2}$ -in. diameter lag screw. Furnished with $\frac{5}{8}$ x $2\frac{1}{4}$ -in. bolt and nut.

Ordering No.	Mounting Bolt Diam., Inches	Clamp Attach. Bolt, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-527571	$\frac{5}{8}$	$\frac{5}{8}$ x $2\frac{1}{4}$	25	204	\$117.00

Bonding Tape Ground Connectors

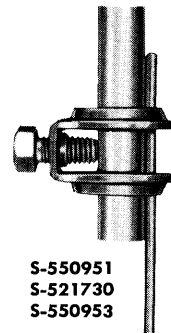
For Aerial or Underground Use



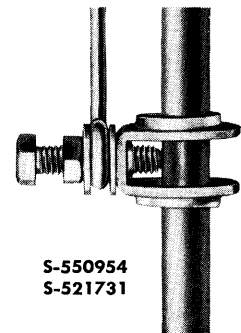
Provides a solderless connection between bonding tapes. One-piece plated bronze. For tape width, .250-.375-in.; thickness, .020-.375-in.

Ordering No.	Dimensions, Inches	Bolt Diam., Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-522159	1 x $\frac{5}{8}$ x 1	$\frac{1}{4}$	50	15	\$43.88

Ground Clamps



**S-550951
S-521730
S-550953**



**S-550954
S-521731**

Bronze—For Copper and Copperweld Rods

Ordering No.	Max. Rod Size—Wire AWG			Min. Rod Size—Wire AWG			Std. Pkg.	Wt., Lbs. per 100	Price per 100
	Rod, In.	Max.	Min.	Rod, In.	Max.	Min.			
S-550951	$\frac{1}{2}$	4	14	$\frac{3}{8}$	1	8	100	9 $\frac{1}{2}$	\$42.59
S-521730	$\frac{3}{8}$	1/0	14	$\frac{1}{2}$	3/0	8	50	15	58.09

Galvanized Steel—For Steel Rods and Pipes

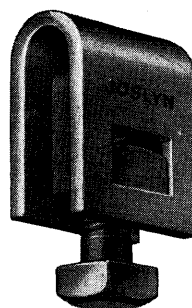
S-550953	$\frac{1}{2}$	4	14	$\frac{3}{8}$	1	8	100	9 $\frac{1}{2}$	\$16.44
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Ordering No.	FOR ROD SIZE—INCHES		WIRE AWG		Std. Pkg.	Wt., Lbs. per 100	Price per 100
	Max.	Min.	Max.	Min.			
S-550954	$\frac{1}{2}$	$\frac{3}{8}$	2	14	100	13	\$33.95
S-521731	$\frac{5}{8}$	$\frac{1}{2}$	2	14	50	20	33.89

Ground Wire Clamps

Lug-it connectors grip cable firmly between the connector body and the serrated copper tongue to form a low-resistance terminal. Handles cable sizes #14 to #6. Lug-its are UL and CAS listed for use with copper cable.

Ordering No.	Description	Std. Pkg.	Price per 100
S-550963	For 14-6 AWG Wire.....	500	\$19.78



Strand Ground Clamps

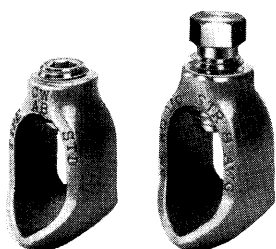
Hot Galvanized

Used for grounding the sheath of overhead cables to the supporting messenger strand.

Bolt turns against collar giving added grounding surface.

Ordering No.	Bolt Size, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-521630	$\frac{1}{2}$	100	60	\$46.68

Prices are subject to change without notice.



With Recessed Safety Set-Screw With Hex Head Set-Screw

Type AB Copperweld Ground Clamps

Provide high pressure clamping of the ground wire directly to the rod. Clamps can be easily removed for periodic checking of ground rod resistance to earth, and re-used.

Clamp bodies are aluminum-silicon bronze alloy. Eliminates clamp stretching and loosening of ground wire connection.

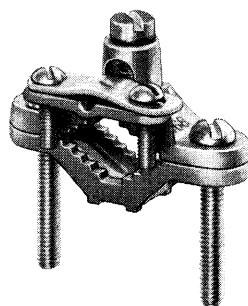
When the safety set-screw style is ordered, five wrenches are furnished at no extra cost with every 100 clamps.

With Recessed Safety Set-Screw

Ordering No.	Size In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550942	3/8	200	8	\$36.10
S-521726	5/8	100	19	60.70

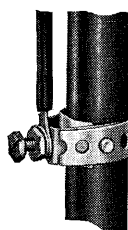
With Hex Head Set-Screw

Ordering No.	Size In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550943	3/8	200	8	\$36.10
S-550945	1/2	100	16	51.60
S-521727	5/8	100	19	60.70
S-521729	3/4	50	26	73.60



Brass Ground Clamps

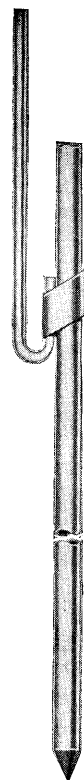
Ordering No.	For Pipe Size, In.	Size Wire, Inches	Std. Pkg.	Wt., Lbs. per Pkg.	Price per 100
S-550949	1/2, 3/4, 1	6 AWG	150	22	\$32.47



Adjustable Ground Clamps

For Grounding Circuits

Ordering No.	PIPE SIZE, IN. (Max. Min.)	For Ground Wire Size	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-550948	1 1/4 3/8	14 AWG	100	5	\$23.23
S-550947	1 1/4 5/8	10-6 AWG	50	8	33.89
S-550946	3 3/8	6 AWG	100	...	39.60



Ground Rods

Copperweld Ground Rods

Copper exterior welded to steel core. Pigtail connection on 3/8-in. rod, .104x18-in.; on 1/2-in. rod, .128x18-in. Pigtail connections are secured to rod by a crimped sleeve and soldered connection. The pigtail is fastened to the rod one inch from the top. Does not interfere with driving.

Standard Ground Rods Without Pigtail

Ordering No.	Diam. In.	Length Feet	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-556820	3/8	5	50	195	\$100.30
S-556830	1/2	5	10	355	212.90
S-556831	1/2	6	10	425	250.70
S-556833	1/2	8	10	565	326.10

Pigtail Type Ground Rods

Ordering No.	Diam. In.	Length Feet	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-556800	3/8	5	50	220	\$141.60
S-556811	1/2	6	10	450	297.65
S-556813	1/2	8	10	590	373.50

NOTE: Copperweld Ground Rods are available on special order in 5/8 and 1-inch diameter, complete with grounding wire clamp. Length may be up to 40 feet in even multiples.

Copperweld Sectional Ground Rods

For Deep Grounds, Low Resistance

For depths of 40 feet or more. Sections are joined by sturdy bronze couplings.

Steel studs prevent damage to threads when driving.

Ground Rods

Ordering No.	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-524760	1/2	5	10	355	\$207.00
S-524765	3/8	5	10	440	298.40

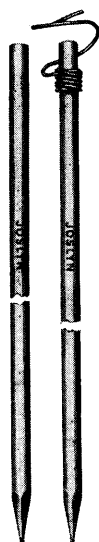
Couplings

Ordering No.	Size In.	Length Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-522289	1/2	..	50	18	\$60.60
S-522290	5/8	..	25	30	79.11

Driving Studs

Ordering No.	Size In.	Length Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-578424	1/2	..	50	15	\$50.90
S-578425	3/8	..	50	23	51.70





Galvanized Steel Ground Rods

Five-inch 12-NBS-104 copper wire firmly soldered to upper end of rod.

With Copper Wire

Ordering No.	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-556850	1/2	5	10	335	\$129.45
S-556842	3/8	6	10	190	91.57

Without Copper Wire

S-556840	3/8	5	10	190	\$63.52
S-556845	1/2	5	10	325	85.46

Galvanized Sectional Ground Rods

Ordering No.	Description	Diam. In.	Lgth. Ft.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-524781	Threaded Rod	5/8	5	10	507	\$177.00
S-522292	Threaded Coupling	5/8	...	250	18	26.40

Note: Uses Driving Stud S-578425 (see page A-16).



Cable Reinforcing Links

Relieve side strains at angles in the line. The links are fastened to the pole on each side of the cable suspension clamp by means of 1/2-inch lag-screws.

Made of 1/2-inch open-hearth steel, they will take strains up to 4000 pounds.

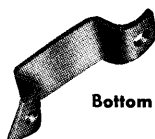
Ordering No.	Length In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-524215	8 3/8	50	116	\$151.01

Galvanized Bracket Straps and Clips

For Wood Brackets



Top Strap



Bottom Strap

Ordering No.	Description	Width In.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-518202	Top Strap. 14 Gauge Steel.....	2	250	32	\$12.55
S-518201	Bottom Strap. 14 Gauge Steel.....	2	500	21	10.28



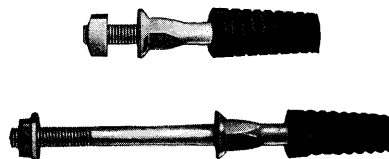
Wood Cobs

For Insulator Pins

Ordering No.	For Pin Diam., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-531004	1/2	100	6	\$5.76

Steel Insulator Pins with Wood Cobs

Hot Galvanized



Long shank pins are for wood arms; short shank for steel, transposition brackets and break irons. Both take standard insulators having 1-inch pin holes.

Long Shank Type

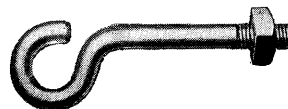
Ordering No.	Shank Diam. In.	SHANK LGTH., IN. Above Shoulder	Below Shoulder	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-515606	5/8	4 1/4	5	50	106	\$63.00

Short Shank Type

S-536254	1/2	4 1/4	1	100	145	\$38.77
S-536255	5/8	4 1/4	1	100	65	56.99

Guard Arm Hooks

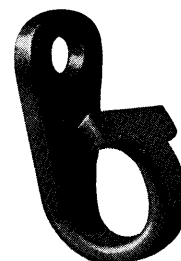
Hot Galvanized



Used on guard arms as dead-ends for telephone services. Threaded for 1/2-inch square nut, bolting through the arm. Furnished with nut.

Ordering No.	Eye Diam. In.	Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550626	1/8	1 1/2 x 5 1/8	50	42	\$34.06

Galvanized Drop Wire Hooks



Used with Drop Wire Clips and similar fixtures, for intermediate attachments of drop wire.

Hook projects 1 1/8 inches from mounting surface. Fastened with 5/16-inch by 2 1/2-inch lag screw, No. 18 round head wood screw or 5/16-inch by 1 3/4-inch hammer drive anchor.

Ordering No.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-553010	100	11	\$14.00

Prices are subject to change without notice.

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Drive Hooks

Hot Galvanized



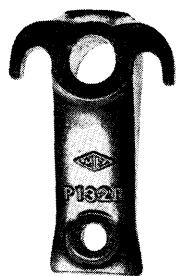
For wire clamp attachments on poles, arms or buildings. Fetter drive threads and duck-bill drive point.

Ordering No.	Length In.	Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-553000	5 1/4	7/16	200	29 1/2	\$17.67

Galvanized Screw Hooks



Ordering No.	Size, Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-553002	5/16x4	500	13	\$9.50



Guy Hooks

Galvanized Malleable Iron

Mounting bolt remains primarily in tension, rather than shear; increases carrying load for any mounting bolt diameter. Contact surface teeth.

Ordering No.	Description	Max. Bolt Diam., in.	Lower Hole Diam., in.	Max. Strand Diam., in.	Thimble Diam., in.	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-514425	One mounting bolt. With integral spur...	5/8	None	3/16	1 1/2	50	132	\$ 58.00
S-514426	One mounting bolt. With integral spur...	3/4	None	1/2	1 1/2	50	160	74.00
S-514427	Two mounting bolts. Without integral spur	1	1/16	3/4	2 5/8	25	288	122.00

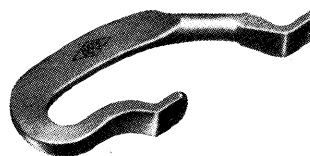
Galvanized Drop Wire Hooks



For attaching drop wire clamps on masonry surfaces and unexposed drop wires on other surfaces where porcelain insulation is not required. Used with a 5/16x1 3/4-in. hammer drive anchor to masonry and a 2-in. No. 18 RH wood screw on other than masonry. It can be used with a No. 8146 Lashing Wire Clamp to form a span clamp for attaching a drop wire clamp to messenger.

Ordering No.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-553011	100	8	\$12.87

Galvanized Steel Cable Suspension Hooks

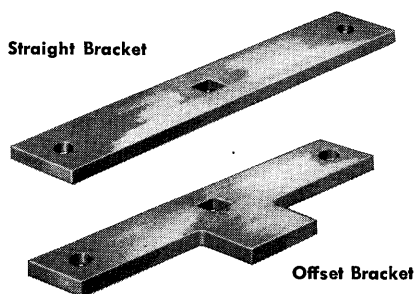


Used on long spans with two messenger strands supporting cable. The second messenger acts as suspension strand. Allows cable car to pass over strand.

Ordering No.	Dimensions, Inches	Tensile Load, Lbs.	Wt. Lbs.	Price Each
S-524015	17 5/8x7	4000	13	\$23.76

Tandem Transposition Brackets

Hot Galvanized

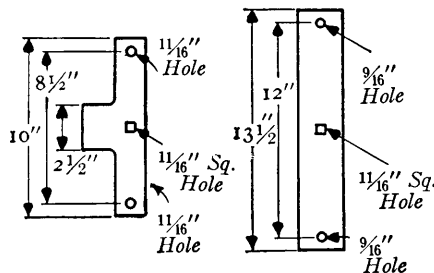


Each bracket uses two steel pins and transposition glass insulators, S-533456. The wires are transposed on a single bracket.

For use on lines with a span of 150 feet or more and with the R transposition scheme. Can also be used with the AE-150 scheme in dry areas.

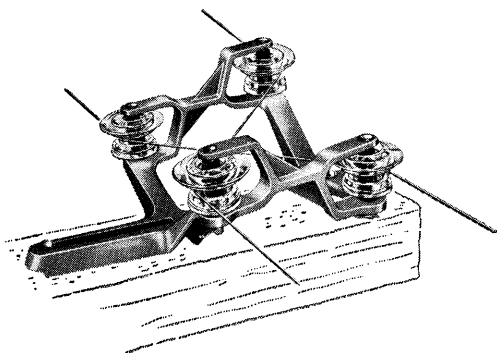
Straight bracket is recommended for straight sections and corners where the pull is 15 feet or less. Manufactured from 3/8-inch stock.

Offset bracket is recommended where the pull is 15 to 50 feet. Manufactured from 1/2-inch stock to withstand corner strains. Uses a heavier pin.



Ordering No.	Type	Use Pin No.	Size Steel Inches	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-530714	Straight.....	S-536254	13 1/2x2x3/8	10	280	\$ 74.11
S-530715	Offset.....	S-536255	10x1 3/4x1 1/2	10	300	109.22
S-530636	Mounting Bolt....		5/8x6	100	70	23.21

Case Transposition Brackets

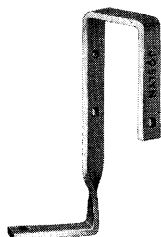


Cross arm bracket. For 8-inch wire spacing. Mounts on standard cross arm with two No. S-511316, 1/2 x 6-inch machine bolts and No. S-519101, 2-inch square washers. The bracket is adjustable to mount on cross arm with pin spacing from 8 to 12 inches.

Ordering No.	Wire Spacing, Inches	Description	Std. Pkg.	Wt. Lbs. per 100	Price Each
S-530703	8	Right-Hand; without Insulators	10	220	\$3.20
S-530702	8	Left-Hand; without Insulators..	10	220	3.20
S-533488	Glass Insulator with Rubber Bushing.....	40	45	\$2.4

Transposition Brackets

Hot Galvanized

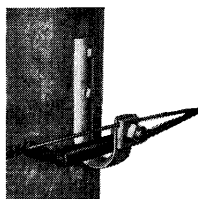


Furnished with 3/8-inch hole for a 2-inch, No. 14 R. H. galvanized wood screw, used to prevent bracket pulling to one side of the cross arm. Uses 1/2x4 1/2-in. carriage bolt with holes for 1/2-inch insulator pins. Pins not included—specify if desired.

Ordering No.	Size Steel Inches	Cross Arm Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-530704	1 1/4 x 5/8	3 1/4 x 4 1/4	25	180	\$94.62

Rural Distribution Wire Brackets

Hot Galvanized

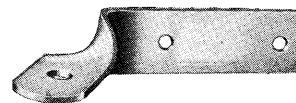


Pole-mounted B wire bracket supports rural distribution wire. For straight line pole mounting and for corner pulls against the bracket up to 30 degrees, use two S-516228, 3/8x4-inch lag screws. For pulls away from bracket up to 35 degrees, secure with 3/8-inch carriage bolt in the lower mounting hole.

Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-530680	B Wire Bracket	25	220	\$83.09

Steel Corner Brackets

Hot Galvanized



Used when leads come from pole to building at an angle, and to carry leads around corner of building.

Insulator and mounting hole diameters, 1 1/2 inches.

Ordering No.	Mtg. Holes In.	Ins. Holes, In.	Legs Inches	Size Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550719	1 1/32	1 1/32	2 1/4 x 4 3/8	7/32 x 1 1/2	100	68	\$40.20
S-550721	5/16	7/16	2 3/4 x 4 3/8	1/4 x 1 1/2	50	106	72.95

Galvanized House Brackets

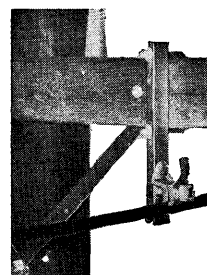
Used with porcelain knobs for service drops.

Ordering No.	Size, Inches	Mounting Holes, In.	Ins. Hole, In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-550722	1 3/4 x 3/16	5/16	7/16	100	58	\$21.42

Cross Arm Clamp Brackets

For Figure 8 Cable Clamps

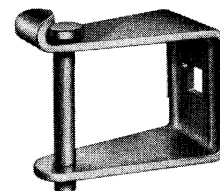
Assembly includes bracket, 1/2-inch U-bolt for attachment to cross arm and 5/8-inch diameter bolt and square nut for attaching clamp.



Ordering No.	Type	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-520725	PA295	25	330	\$187.00

Deadend Brackets and Insulators

Hot Galvanized



Insulator locks into the bracket after mounting. No keys or nuts are necessary. Square hole for 3/8-inch carriage bolt.

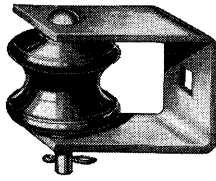
Ordering No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-512765	Bracket Only, with Pin; without Insulator.....	41		\$26.64
S-533384	Single-Groove Insulator Only	38		10.57
S-515601	Extra Pin Only	6		2.36

Prices are subject to change without notice.

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Deadend Brackets and Insulators

Hot Galvanized

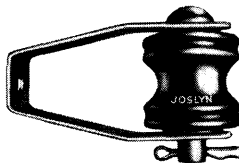


The bracket is made from $\frac{1}{8}$ by $1\frac{1}{2}$ -inch flat steel. Attachment is made by a carriage bolt through a $\frac{13}{32}$ -inch square hole.

Ordering No.	Description	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-512767	Bracket Only. With Pin, without Insulator.....	100	50	\$23.82
S-533386	Insulator Only.....	100	33	15.34

Deadend Brackets and Insulators

Hot Galvanized

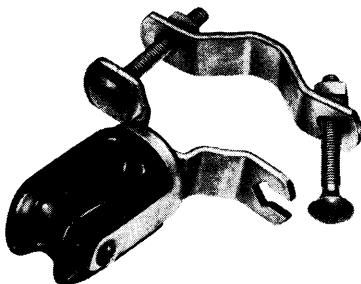


For crossarm mounting. Bracket is made of $1\frac{1}{2}$ x $\frac{3}{16}$ -in. steel. Mounting bolt holes are for $\frac{5}{8}$ -in. bolts.

Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-512766	Bracket only, with Pin; without Insulator..	50	122	\$50.32
S-533385	Insulator only.....	100	52	21.40

Service Mast Wireholders

Hot Galvanized



Can be installed without removing the bolts.

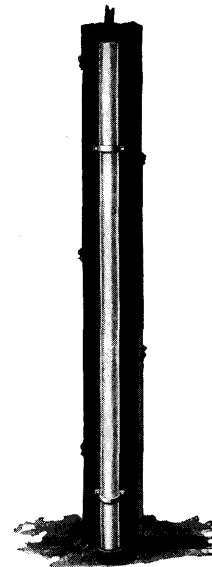
Ordering No.	Description	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-558703	For $\frac{1}{4}$ to 3-in. Pipe	25	188	\$104.75

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Prices are subject to change without notice.

U-Guards and Straps for Cable

Hot Galvanized



Protects cables on poles or sides of buildings immediately above ground. Formed from 14-gauge flat steel.

Guard No. S-522821 has $2\frac{1}{8}$ -inch inside diameter belled bottom to fit over conduit entering ground.

U-Guards

Ordering No.	Lgth. Ft.	Inside Diam. In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-522825	5	$1\frac{1}{8}$	5	480	\$161.70
S-522824	8	$1\frac{1}{8}$	5	720	196.00
S-522822	8	$2\frac{3}{16}$	5	1240	318.00
S-522823	8	$3\frac{3}{16}$	2	1850	462.60
S-522821	8	$1\frac{1}{4}$	5	880	378.29

Mounting Straps

Ordering No.	For Guard No.	Hole Diam., In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-527180	*S-522825	$\frac{9}{32}$	500	18	\$10.55
S-527182	S-522822	$\frac{9}{32}$	200	30	13.66
S-527183	S-522823	$1\frac{1}{32}$	100	70	41.04
S-527181	S-522821	$\frac{9}{32}$	500	21	10.89

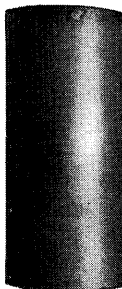
*Also fits Guard No. S-522824.

Hub Pole Guards

Hot Galvanized

Dimensions are of flat plates before bending.

Ordering No.	Dimen. Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-514340	16x18x $\frac{1}{8}$	5	1040	\$278.32



Servisleevs Hot Galvanized

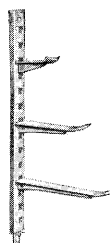


No cutting, clipping or crimping necessary. Easily and quickly installed without special tools. Retains original shape and maintains a firm grip at all times.

Ordering No.	Strand Size In.	Length In.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-516375	5/16	1 1/2	1000	5	\$ 9.70
S-516377	7/16	2	1000	9	13.80

Underground Cable Racks and Hooks

Hot Galvanized



Rack sections are made from 1 1/2 x 3/16 x 3/16 inch channel steel; support the heaviest cables. Fasten to manhole walls with 1/2 x 3 1/2-inch expansion bolts.

Hooks are cut from steel T sections. Rounded top surfaces, 1 1/2 inches wide, will not injure cables.

Cable Racks

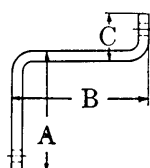
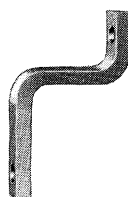
Ordering No.	No. of Holes	Length Inches	Bolt Spacing Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-546820	8	15	13 1/2	50	150	\$ 86.46
S-546821	14	24	22 1/2	10	230	115.89
S-546822	18	30	28 1/2	10	290	150.07
S-546823	37	55	...	10	540	272.03

Cable Rack Hooks

Ordering No.	Ext. Lgth., In.	Size Steel Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-543008	4	1 1/2 x 3/16 x 13/16	100	52	\$38.61
S-543009	7 1/2	1 1/2 x 3/16 x 13/16	50	124	57.85
S-543010	10	1 1/2 x 3/16 x 13/16	25	196	84.54
S-543011	14	1 1/2 x 3/16 x 13/16	25	240	158.04

Cable Rack Extensions

Hot Galvanized



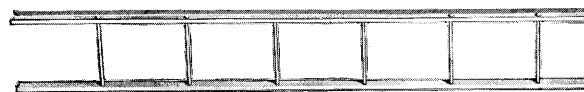
For extending racks away from walls or obstructions. Mounting holes are 5/16 inch for 1/2-inch bolts.

Order two extensions for each rack to be mounted.

Ordering No.	Type	Size Steel Inches	DIMENSIONS INCHES			Std. Pkg.	Wt. Lbs. per 100	Price per 100
			A	B	C			
S-541949	2101	1/2 x 1	4 1/4	3 3/8	2 1/4	25	120	\$45.50
S-541950	2102	1/2 x 1 1/4	5 3/4	6 5/16	2 3/8	25	236	94.60

Steel Manhole Ladders

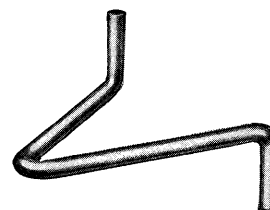
Hot Galvanized



Ordering No.	Length Feet	Wt., Lbs. per 100	Price per 100
S-544416	8	3200	\$1720.00

Pulling-In Irons

Hot Galvanized



Set into the concrete walls, or brick walls, of street vaults opposite duct entrances, to attach pulling-in blocks when installing or removing cable.

Ordering No.	Diam. Steel Inches	DIMENSIONS Lgth., Spread, In.		Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-543509	7/8	9	8 3/8	5	490	\$228.72
S-543512	7/8	13 3/16	11	5	600	233.21

Galvanized Steel Pole Gains

Used when undesirable or impossible to cut a gain in the pole.

Ordering No.	Size, Inches	Hole Diam., In.	Slot, Inches	Std. Pkg.	Wt. Lbs. per 100	Price per 100
S-514205	4 x 3/16	1/4	2 x 3/4	50	150	\$48.79

Galvanized Guy Wire Protectors



Half Round

Ordering No.	Length, Feet	Gauge Steel	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-514315	7	14	2	1000	\$296.08
S-514314	8	14	2	1200	323.58

Full Round

*S-514312	8	18	2	1550	\$471.87
*R.E.A. standard.					

Prices are subject to change without notice.

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Preformed Plastic Guy Wire Guards

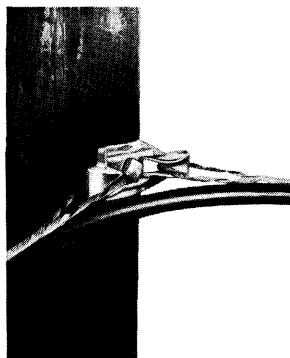
Full-round high-impact polyvinyl chloride plastic guard needs no bolts or metal parts. Curled edge grip at bottom flares over and around loop of the dead-end, providing strength that discourages tampering. One size fits $\frac{1}{4}$ -in. to $\frac{7}{16}$ -in. strand.

Ordering No.	Type	Length, Ft.	Color	Std. Pkg.	Ship. Wt., Lbs. per Std. Pkg.	Price Each
514307	PG5508	8	Grey	25	45	\$2.39
514308	PG5528	8	Green	25	45	2.88
514309	PG5518	8	Yellow	25	45	2.71

Carlton Plastic Guy Wire Guards

Round, full-visibility all-plastic self-extinguishing PBC guy guards. For guy strand sizes $\frac{1}{4}$ -inch and larger, and through anchor rods to $1\frac{1}{4}$ inches inclusive.

Ordering No.	Description	Std. Pkg.	Price Each
S-514311	Plastic Guy Wire Guard, with two bolts.....	15	\$2.94
511800	Replacement Bolt ..		.25



Corner Attachments

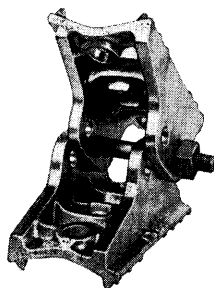
Use With Any Messenger

Thimble accepts all types of messenger dead ends for 35-60 degree inside and outside angles. One mounting bolt. Usually a span or down guy can be attached with the same bolt. Curved contact surface. R.E.A. accepted.

Ordering No.	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-520205	25	220	\$144.00

Universal Angle Spar Connectors

Galvanized Malleable Iron

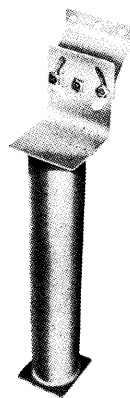


For Push Braces and other butt connections. Accommodates up to 90 degree angle. Single bolt attachment. For heavy loads, two bolt attachment is available.

Ordering No.	Pole Diam., Inches	Base Dimen., In.	Mounting Bolt Diam., Inches	Std. Pkg.	Wt., Lbs. per 100	Price per 100
S-512901	4 $\frac{1}{2}$ -7	3x5 $\frac{3}{8}$	$\frac{5}{8}$	15	667	\$ 657.00
S-512902	6-11	4x8	$\frac{3}{4}$	6	1667	1162.00

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Prices are subject to change without notice.



Type B Cable Dampers

Reduces large amplitude, low-frequency vibrations in aerial cable caused by wind. Spring supported weight in sealed steel cylinder. Adjustable bracket for attachment to supporting strand.

Ordering No.	Std. Pkg.	Wt. Lbs.	Price Each
S-522301	1	35	\$31.68

Type B Strand Tie Straps

Hot Galvanized

Ties two suspension strands supported on opposite sides of pole. Each end arranged for clamping on strand.

Ordering No.	Length, Inches	Description	Wt. Lbs.	Price Each
S-527275	14	Straight.	1 $\frac{1}{4}$	\$3.96

Aluminum Numbers

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Height, 1 $\frac{1}{2}$ -in. Available in $\frac{1}{2}$, $\frac{3}{4}$, 1, 2, 3, 4 and 6-in. heights. Special finishes also available. R.E.A. approved. Standard package, 100. Weight per 1000, 3 pounds.

Ordering No.	Description	Price per 1000
S-515301	1	\$18.00
S-515302	2	18.00
S-515303	3	18.00
S-515304	4	18.00
S-515305	5	18.00
S-515306	6	18.00
S-515307	7	18.00
S-515308	8	18.00
S-515309	9	18.00
S-515310	0	18.00