

From the Ground Up

Meeting all your Pole Line Hardware needs! Select from a variety of quality vendors.

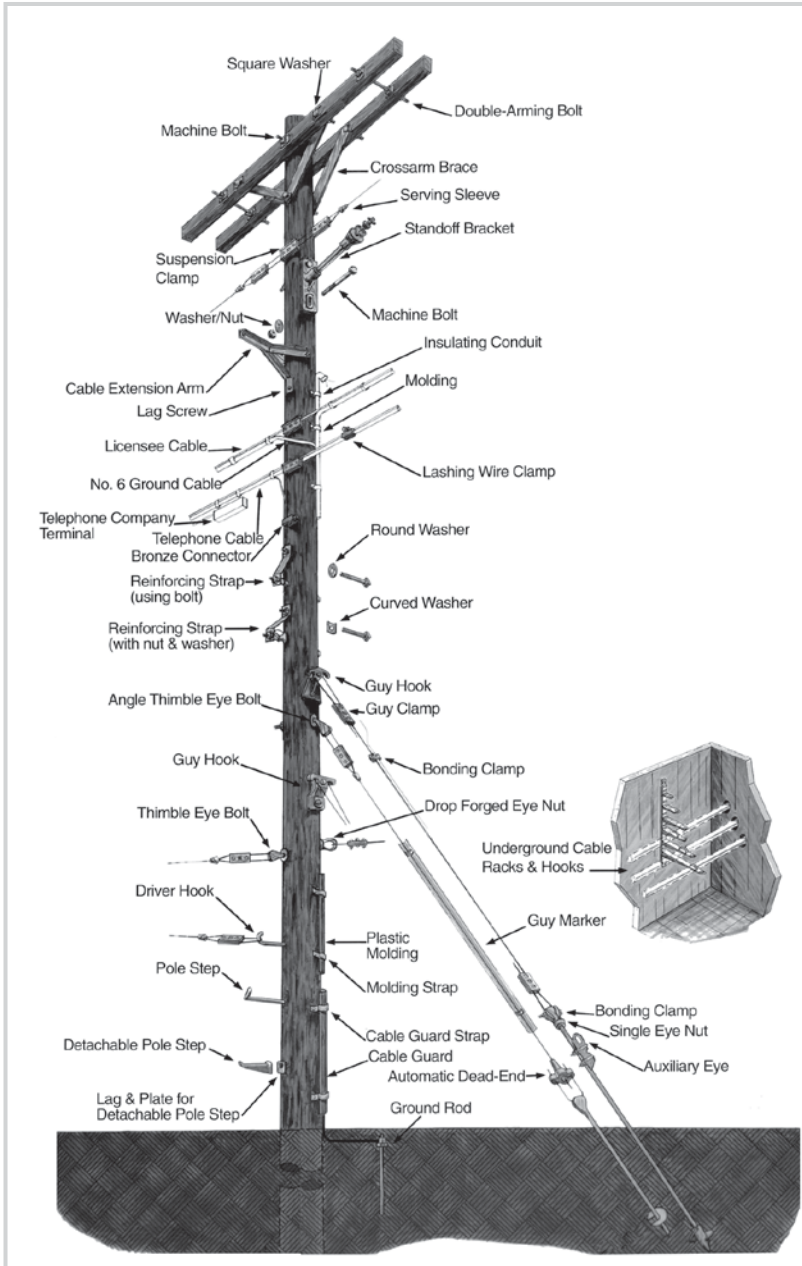


Illustration courtesy of Hubbell Power Systems, Inc.

**Check out the
"Mile Estimator"
on page A-16**

8-Way Expanding Anchors - Covers 70-115-135-200 sq. in.

Anchor Rods - 5/8" rod diameter 5'-6'-7'-8' thimbleye and twineye

Angled Thimbleye - 5/8" and 10"-12"-14"-16" lengths

Cable Extension Arms - For 17-1/2" to 26" and 26-1/2" to 44-1/2"

Drive Hooks - 4-3/4" long

Drive Rings - 1/2"-5/8"-7/8" diameter ring

Drop Wire Clamps - 2-pair and 6-pair

Figure-8 Cable Suspension Clamps - 1-bolt and 3-bolt, angled and straight for lashed and integral application

Ground Rods - Copperweld and galvanized steel, 1/2" and 5/8" diameter 5' and 10' lengths

Guy Clamps - 1-bolt and 3-bolt for various strand sizes

Guy Hooks - 5/8" and 3/4" maximum bolt diameter

Guy Guards - 6'-8' long, yellow

Lag Screws - Gimlet and fetter point 2-1/2" to 5" long

Lashed Cable Suspension Clamps 1-bolt and 3-bolt, straight and angled

Lashers - We offer a wide selection of lashers, from a simple hand-spiraled model to one that can overlash

Lashing (Spinning) Wire - For use in lashing machines to attach aerial cable to messenger strand

Lashing Wire Clamps - For clamping lashing wire to messenger strand at both sides of each pole. Available in one-piece and two-piece construction.

Machine Bolts - 8"-10"-12"-14"-16"-18"-20" long

Nuts & Washers

Pole Steps - 5/8" x 10"

Straight Thimbleye Bolts - 10"-12"-14"-16" long

Strandlinks - Fit 1/4"-5/16"-3/8"

Strandvises - All grades and universal, long bail and short bail, 3/16"-1/4"-5/16"-3/8"-7/16"

Hardware Quickie

To Install Figure-8 Self-Supporting Cables with 1/4" Messenger

Part No.	Description	Angle & Quantity			
		1-150' 0°-10°	150'+ 0°-15°	All 11°-35°	All 36°+
PA288	Clamp	—	—	1	—
PA296X	Clamp	1	—	—	—
PA422	Clamp	—	1	—	—
PB354	"J" hook	—	(optional) 1	—	—
J805*	Thimbleye bolt	—	—	—	1
J1075	Washer	2	2	2	2
J8563	Nut, extra	1	1	1	—
J881**	Machine bolt	1	1	1	—
5100.1	Strandvise	—	—	2	2
100MC	Closure	—	where needed	—	—
171	"Y" branch kit	—	where needed	—	—
1648	12 Cond. terminal block	—	where needed	—	—

Tools

Bell-System Type Grips: Part No. 16595AT (see page I-2 in the Tools & Safety section)
305AN Slitting Tool: Part No. 80255 (see page I-10 in the Tools & Safety section)

Length (order as J8051, J8052, etc.)

*Thimbleye bolt		**Machine bolt	
1 = 10"	3 = 14"	0 = 10"	4 = 14"
2 = 12"	4 = 16"	2 = 12"	6 = 16"

To Install Figure-8 Self-Supporting Cables with .109" or .134" Messenger

Part No.	Description	Angle & Quantity		
		1-150' 0°-30°	150'+ 31°-60°	All 61°+
PA292X	Suspension clamp	1	—	—
P294	Double thimbleyelet attachment	—	1	—
5058	Deadend (for .109")	—	—	2
5062	Deadend (for .134")	—	2	2
J1075	Washer	2	2	2
J805*	Thimbleye bolt	—	—	1
J8563	Nut, extra	1	—	—
J881**	Machine bolt	1	1	—
500MB	Closure	—	where needed	—
1648	6 Pair unprotected terminal block	—	where needed	—

Tools

"Haven" Grips: Part No. 160420 (see page I-1 in the Tools & Safety section)

Length (order as J8051, J8052, etc.)

*Thimbleye bolt		**Machine bolt	
1 = 10"	3 = 14"	0 = 10"	4 = 14"
2 = 12"	4 = 16"	2 = 12"	6 = 16"

Lashing (Spinning) Machines

Model S



A pull-type, lightweight, single lashing spinner that can spin cable up to 1-15/16" diameter. Weighs just 19 lbs. Uses 1,200' straight hub coils of .045" wire. Call for details.

Part No. 61200000

Model Q



For short spans, the Model Q is simply hand-spiraled around cable and messenger. Weighs 2 lbs. Uses 375' tapered coils. Call for details.

Part No. 61100000

Model 1050



A pull-type cable lasher for tough jobs. Lash single or multiple cables up to 3" O.D, perfect for Fiber Optic and CATV cable. Weighs 38 lbs. Holds up to 1,200' coil of .045" wire; works compatibly with up to 1/2" strands. Call for details.

Part No. 61400000

Lashing (Spinning) Wires



For use in lashing machines to attach aerial cable to messenger strand. Available in .045" diameter Type 430 Stainless Steel and .038" diameter Type 302 Stainless Steel. Call for details.

Part No.	Coil Length (ft)	Type Hub	Standard Package	Weight (lbs/pkg.)
LASH0381	1,600	Straight	6	39
LASH0451	1,200	Straight	6	39
LASH0453	525	Tapered	6	30
LASH0454	375	Tapered	6	24
4045B	<i>Splice sleeve for .045" lashing wire, 4 lbs./1,000, Package of 200</i>			

Lashing Wire Clamps



For clamping lashing wire to messenger strand at both sides of each pole. The "D" clamp has two separate clamping plate pieces. The "E" clamp clamping plates are one piece.

Part No.	Clamp Type	Strand Size (in)	Standard Package	Weight (lbs/100)
2609010	D	1/4 to 7/16	100	16
2609020	E	1/4 to 7/16	100	11

Cable Spacers, Plastic



Provides a space between cable and messenger strand. 1/4" and 1/2" spacers are used to provide clearance between the bottom of suspension clamps and the cable at poles. Other sizes are used to develop spacing from the messenger strand.

Part No.	Specifications	Part No.	Specifications
3408850	1/2" Spacer	3408878	1-3/4" Spacer
3408875	3/4" Spacer	3408879	1-3/4" Spacer
3408876	1" Spacer	3408880	2" Spacer
3408877	1-1/2" Spacer		

Lashed Cable Support Straps



Polished zinc alloy straps; for cable support attachment to messenger strand beyond lashing wire terminations (at each side of pole). Also used with cable spacers to create space between messenger strand and cable for installation of splices, closures, loading coils, etc.

Part No.	Strap Length (in)	Max. Cable Dia. (in)	Standard Package	Weight (lbs/100)
3408911	10	3/4	500	4
3408921	16	1-3/16	500	6
3408931	22	2	300	7
3408941	28	2-5/8	300	10
3408951	34	3-1/8	300	11
3408961	50	5	200	17

Longer straps also available.

Easy Rider™ Block



Overlash block is economical, high strength and lightweight. It can be snapped over a strand and cable package up to 2-1/4" diameter.

Part No.	Description	Weight (lb)
90400	Easy Rider Block-Nylon Roller	1
90400A	Easy Rider Block-Aluminum Roller	1

Lashing Rods

An alternative to machine lashing and cable rings on difficult short spans or partial spans over traffic intersections, through tree obstructions, etc. No tools needed—these galvanized steel rods wrap around messenger strand and cable.

Part No.	Rod Length (ft)	Min./Max. Cable Dia. (in)	Standard Package	Weight (lbs/Pkg.)
LR6105	5	.67/.749	100	17
LR6106	5	.75/.839	100	17
LR6107	5	.84/.939	100	17

Other sizes also available.

Economy Cable Blocks



Economical cable blocks for support of one or two cables or innerduct up to 1.25" outside diameter. Use on strand up to 5/16" diameter. Integrated cable retaining system with spring-loaded arm. Frames are durable cast aluminum with steel inserts on strand contact surfaces. Rollers are plastic or steel. Replacement rollers available. From Condux International.

Part No.	Description	Roller/Cable Config.	Frame	Roller
18401060	single	1	aluminum	plastic
18401080	single	1	aluminum	steel
18402060	double	2	aluminum	plastic

CAB™ Cable Rings



Provide maximum strength and safety for the support of aerial cables in power utility, telecommunication and industrial applications. Manufactured from galvanized steel, copper clad steel, bronze or Type 316 stainless steel to withstand corrosive environments. For more protection, any style of ring can be insulated with a coating of high dielectric grade PVC Plastisol.

- **Standard:** Designed for suspending single cables.
- **Long:** Extra length allows a second cable to be suspended under the standard style ring from the same messenger strand.
- **Medium:** For single or multiple cables - available by special order.

CAB Saddles

Improves safety by providing a wider load bearing area in the carrier section of the cable ring. This extra support and protection is especially important when running heavy cables or multiple cables. Saddles are strong, lightweight and have an integral locking system to the cable ring. Completely assembled ring and saddle units are available for added convenience and faster installation time. Can be PVC coated.

PVC Coated CAB Cable Rings

Ring is completely coated with PVC Plastisol making it totally insulated and spark-proof. Slippage and movement of cable rings after installation is virtually eliminated due to molding action of the PVC coating to the messenger strands. Provides extra protection in highly corrosive environments.

Standard Galvanized Cable Rings

Used for short cable runs, like mid-span traffic signal installation. The inside diameter of the ring/loop permits additional cables to be pulled thru on future installation modifications. No tools needed. When ordering, specify messenger strand size being used.

Part No.	Description	Strand Dia. (in)	Max Cable Dia. (in)	Weight (lbs/100)
1024	2x1/4 GALV	1/4	1-1/2	6
1031	2x5/16 GALV	5/16	1-1/2	6
1034	2x3/8 GALV	3/8	1-1/2	6
1070	3x3/8 GALV	3/8	2-1/4	12
1092	3x7/16 CPWD	7/16	2-1/4	12

Other sizes also available.

Deltec® Cable Support System from Thomas & Betts

Cable Strap with Head

Part No. CSS135 - 13.5" long, 50/bag.
Part No. CSS270 - 27" long, 25/bag.



Locking Heads

Part No. CSSLH - Molded acetal with marine grade metal locking device. Used with 50' reel of strap. 25/bag.

Cable Support Strap

Part No. CSS50R - Reel of strap reduces storage and waste, 50' rolls.

Reel Kit CSS

Part No. CSS5K - Kit of five 50' reels plus 150 locking heads.
Part No. CSS10K - Kit of five 50' reels plus 300 locking heads.

Cable Spacer

Part No. TCP360 - One spacer for any cable size; stackable for any desired spacing; less inventory; only one catalog number. Made of weather-resistant polypropylene. 1/2" high.

Steel Base and Hanger

Part No. CSSH - Zinc-plated steel hanger for horizontal runs.
Part No. CSSB - Zinc-plated steel base for vertical runs.



Ty-Rap® Cable Ties

Nylon 6/6 Weather Resistant. Recommended for outdoor use. Ultraviolet resistant.

Part No.*	Length (in)	Max. Wire Bundle Dia. (in)	Tensile Strength (lbs)
TY523MX	3.62	.625	18
TY524MX	5.50	1.125	30
TY525MX	7.31	1.75	50
TY5272MX	8.75	2	120

*TY5272MX not UL Listed

Installing/Cutting Tool



Installs self-locking Ty-Rap® cable ties and 2-piece lashing ties. Range is .184" through .5". Weight is 8 oz.

Part No. WT3D

Lashing Ties - Extended Length

Used for supporting, securing, fastening and spacing cable, as well as a variety of other applications requiring extra-long, extremely durable strapping. Consists of a smooth strap and a separate, compact plastic head which encloses a stainless steel gripper.

Minimum loop tensile strength: 250 pounds

Continuous operating temperature: -40°F to 185°F.

Part No.	Description	Standard Package
TELS1	50' of strap on reel dispenser and 30 heads	1 kit
TELSH	Double entry, double locking heads	25
TESSPK2	Stackable spacers	50

Aerial Support Spacer Tie



One piece ties designed for standard spacing applications. Pre-grouped in multiples of five to save installation time. Minimum tensile strength is 100 lbs.

Part No.	Length (in)	Width (in)	Max Diameter (in)	Standard Package
TAS100LWS	16	1/2	4-1/2	100
TAS100MWS	10	1/2	2-3/4	100
TAS100RWS	7-1/2	1/2	1-3/4	100

Guy-Grip® Deadends

For quick, easy dead-ending of 7-wire and 3-wire "B" galvanized guy and messenger strand. Each size is color-coded for identification in the field. From Preformed Line Products.

Part No.	Strand Size (in)	Color Code	Standard Package	Weight (lbs/100)
GDE1104	1/4	Yellow	50	48
GDE1106	5/16	Black	50	76
GDE1107	3/8	Orange	50	104

Other sizes also available.

Messenger & Guy Strand Galvanized Steel

7-wire "A" galvanized steel messenger and guy strand. The individual strand wires are "preformed" to neutralize internal stresses and prevent the strand from flaring apart when cut.

Popular Strand Designations:

- 6M - 5/16" Utilities Grade
- 6.6M - 1/4" Extra High Strength
- 10M - 3/8" Utilities Grade
- 3M - 1/4" Tether Wire
- 11.2M - 5/16" Extra High Strength

Stock sizes:

Strand Diameter (in)	Utilities Grade (lbs)	Extra High Strength (lbs)	Siemens-Martin Grade (lbs)	Weight (lbs/M-ft)
1/4	—	6,650	3,150	121
5/16	6,000	—	—	225
5/16	—	11,200	—	205
3/8	11,500	—	6,950	273

Other strengths also available.

Pre-Lashing

We will attach 1/4" or larger messenger cable of extra high strength galvanized 7-strand steel with stainless steel lashing wire to the cable you specify. Your pre-lashed cable will ship within 2 to 3 days.

And if you require multiple wires or cables in a run, we offer Custom Jacketing. Once the cables are jacketed together, we can then lash to a messenger.

See page 5 of the Quik-Pull® section for more information on Custom Jacketing options.

Strandvise® and Strandlink® Automatic Connectors



For quick, easy dead-ending of guy strand and messenger strand.

Universal Grade Strandvise

Recommended for use with Alumoweld, EHS and Galvanized Steel.

All Grades Strandvise

Recommended for use on Common Grade, Siemens-Martin, High Strength Utility Grade, Galvanized and Aluminized steel strand. Rated to hold a minimum of 90% of rated breaking strength of the strand.

Part No.	Strand Size (in)	Bail	Strand Wire Dia. Range (in)	Standard Package	Weight (lbs/100)
Universal					
5199	3/16	Short	.140/.215	55	42
5200	1/4	Short	.215/.270	50	62
5201.1	5/16	Short	.270/.315	50	84
5202	3/8	Short	.325/.392	25	132
5203	7/16	Short	.392/.455	25	172
All Grades					
5100.1	1/4	Short	.240/.253	50	45
5101.2	5/16	Short	.310/.335	50	72
5102	3/8	Short	.360/.405	50	104
5150.1	1/4	Long	.240/.253	50	54
5151.1	5/16	Long	.310/.335	50	84
5152	3/8	Long	.360/.405	50	114
5058	Solid	Short	.102/.114	100	10
5062	Solid	Short	.120/.134	100	16

Other sizes also available. Universal/All Grades are compatible with the Strandvise Pulling Hook Part No. 9055.

Strandlink® Splices Messenger & Guy Strand



Automatic splice for easy strand splicing. Ends are simply inserted into each end of the strandlink.

Part No.	Strand Size (in)	Type Strandlink	Standard Package	Weight (lbs/100)
5000	1/4	All Grades	50	33
5001	5/16	All Grades	50	62
5002	3/8	All Grades	50	88
5063	.12 - .134 Solid Messenger	All Grades	100	8
5059	.102 - .114 Solid Messenger	All Grades	100	4

Other sizes also available.

Lashed Cable Straight Suspension Clamps

0-10° Angle



The J1096 three-bolt clamp is the standard of the American Telephone Industry for long span, heavy duty construction. Mounted on a 5/8" machine/thru bolt. Comes with two track bolts to tighten the clamp and grip the messenger strand. *Mounting bolts not included.*

Part No.	Type	Mounting Hole Dia. (in)	Strand Size (in)	Standard Package	Weight (lbs/100)
J1096	3-bolt	11/16	1/4 to 7/16	25	180
7904	1-bolt	13/16	5/16 to 3/8	25	212
J1095	1-bolt	11/16	1/4 to 7/16	50	67

Lashed Cable Angle Suspension Clamps

10-35° Angle



Same mounting as the J1096 above, but heavier to accept the additional strain of corner/angle suspension. Mounted on a 5/8" machine/thru bolt. *Mounting bolts not included.*

Part No.	Type	Mounting Hole Dia. (in)	Strand Size (in)	Std. Pkg.	Weight (lbs/100)
J7901A	3-bolt	11/16	1/4-7/16	25	210

Lashed Cable Messenger Hanger



For fairly level, short span, light cable runs. Mounts with 5/8" machine bolt and 1/2" lag screw. *Mounting bolts not included.*

Part No.	Standard Package	Weight (lbs/100)
J1070	20	335

Machine Bolts (Thru Bolts)



For mounting attachments on poles (cable suspension clamps, eyes, crossarms, etc.). Square head with one square nut. 5/8" diameter. Minimum tensile strength 12,400 lbs.

Part No.	Bolt Length (in)	Thread Length (in)	Standard Package	Weight (lbs/100)
J8808	8	4	50	82
J8810	10	6	50	94
J8812	12	6	50	108
J8814	14	6	25	125
J8816	16	6	25	136
J8818	18	6	25	152
J8820	20	6	25	170

Other sizes also available.

Straight Thimbleye Bolts



For attaching messenger strand deadends. Length is measured from below the eye to the last thread. 5/8" diameter.

Part No.	Bolt Length (in)	Thread Length (in)	Standard Package	Weight (lbs/100)
J8051	10	4	25	136
J8052	12	6	25	150
J8053	14	6	25	168
J8054	16	6	25	188

Other sizes also available.

Oval Eyebolts



For attaching down guy deadends and messenger strand deadends. Large eye may accommodate more than one attachment. Length is measured from below the eye to the last thread. 5/8" diameter.

Part No.	Bolt Length (in)	Thread Length (in)	Standard Package	Weight (lbs/100)
J9410	10	6	25	146
J9412	12	6	25	156
J9414	14	6	25	168
J9416	16	6	25	188
J9418	18	6	25	212

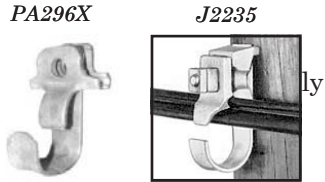
Other sizes also available.

Figure-8 Cable Suspension Clamps, 1-Bolt

For self-supporting aerial cables where the 1/4" messenger strand is integrated into/under the overall outer cable jacket in a Figure-8 configuration. The clamps are designed to grip the jacketed messenger, no stripping needed. Mounting (machine/thru) bolts should be 3" longer than the pole diameter to accommodate these clamps.

0-10° Angle

Used in short span construction - up to approximately 150' spans. Includes two clamping pieces and a "J" hook. The "J" hook is mounted on a 5/8" machine bolt with a square nut; then the two clamping pieces are mounted and tightened onto the integrated messenger with a second square nut. *Bolts and nuts sold separately.*



Part No.	Standard Package	Weight (lbs/100)
PA296X	25	150
J2235	50	183

0-35° Angle

For Figure-8 distribution wires and coaxial cables having integrated solid steel messenger wire. The clamps grip .109"-.134" diameter jacketed messenger wires. No stripping needed. Mounts on 5/8" machine bolt with two square nuts. *Bolts and nuts sold separately.*



Part No.	Standard Package	Weight (lbs/100)
PA292X	50	60

10-35° Angle

For Figure-8 distribution wires and coaxial cables having integrated solid steel messenger wire. The clamps grip .109"-.134" diameter jacketed messenger wires. No stripping needed. Mounts on 5/8" machine bolt with two square nuts. *Bolts and nuts sold separately.*



Part No.	Standard Package	Weight (lbs/100)
PA288	25	140

Figure-8 Cable Suspension Clamps, 3-Bolt

Used for heavier, long span construction; have longer gripping surfaces than the 1-bolt clamps. PA422 clamps have "serpentine" gripping surfaces for extra gripping strength and does not include a "J" hook. A "J" hook is included with the No. J2245. Mounts on 5/8" machine bolt (*sold separately*).

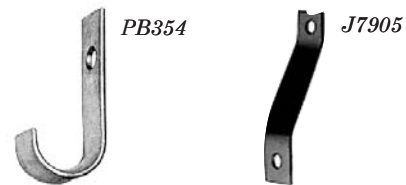


Part No.	Standard Package	Weight (lbs/100)
PA422	20	260
J2245	20	352

Suspension Clamp Accessories

"J" Hook and Reinforcing Strap

"J" hooks may be ordered separately for use as stringing hooks for Figure-8 cable installation. Reinforcing straps give extra strength to the clamp end of machine bolts. Use 1/2" lag screw through top hole.



Part No.	Item	Mounting Bolt Dia. (in)	Standard Package	Weight (lbs/100)
PB354	"J" hook	5/8	50	60
J7905	Reinforcing strap	5/8	100	51

Double Thimbleyelet Corner Deadend Attachment

For deadending messenger strand in both directions on 35-60° angle corners. Non-threaded, mounts on head end of 5/8" machine bolt (*sold separately*).



Part No.	Standard Package	Weight (lbs/100)
P294	25	210

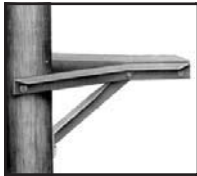
Fiberglass Extension Arm



Designed to provide support and clearance for communication cable. Features a polyester rod with an ultraviolet inhibitor. Also has a two part polyurethane enamel coating with ultraviolet resistance. Medium duty. *Clamp not included.*

Part No.	Extension (in)	Standard Package
1CSM12	12	1
1CSM18	18	1
1CSM24	24	1
1CSM36	36	1

Cable Extension Arms



For suspending a cable away from a pole to provide special clearance or reduce a corner angle to eliminate the need for guying at a difficult location. The arm pieces are attached to the pole by a 5/8" or 3/4" machine bolt. The lower support brace is attached by two 1/2" lag screws.

Part No.	Extension (in)	Standard Package	Weight (lbs/100)
J7920	17.5 to 26	1	29
J7921	26-1/2 to 44-1/2	1	60

Nuts and Washers

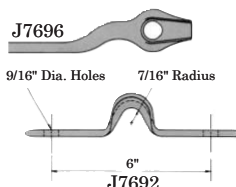


The square nuts are for bolts only. *Anchor rods use heavier nuts - see page A-11.*

Part No.	Item	Max. Bolt Dia. (in)	Size (in)	Std. Pkg.	Weight (lbs/100)
J8563	Square Nut	5/8	—	500	11
J1074	Square flat washer	5/8	2	500	14
J1075	Square flat washer	5/8	2-1/4	250	26
J6822	Square curved washer	5/8	2-1/2	150	24

Other sizes also available.

Wall Straps



Used for guying and deadending messenger strand to building walls. Straps are made of 1-3/8" x 11/32" steel with a forged thimbleye. The J7696 has three 9/16" diameter holes spaced 8" from center-to-center.

Part No.	Overall Length (in)	Standard Package	Weight (lbs/100)
J7696	24-3/8	20	325
J7692	8	100	78

Eyelets

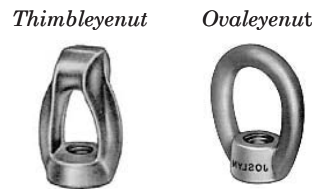


Both are non-threaded for attaching overhead end of machine thru bolts. The straight eyelets are used for deadending messenger strand and span, head and stub guying.

Part No.	Type	Max. Bolt Diameter (in)	Standard Package	Weight (lbs/100)
J6550C	Straight Thimbleyelet	5/8	50	128
J1126	Standard Eyelet	5/8	50	78

Other sizes also available.

Eyenuts



Threaded for attaching to end of machine/thru bolts or eye bolts. Used for deadending messenger strand and span, head and stub guying.

Part No.	Type	Max. Bolt Diameter (in)	Standard Package	Weight (lbs/100)
J6510	Thimbleye nut	5/8	50	91
J1092	Ovaleyenut	5/8	100	59

Other sizes also available.

Guy Hooks



Galvanized malleable iron guy hooks for attaching guy strand to pole. May also be used for deadending messenger strand. Guy hooks are mounted on pole using only a standard thru/machine bolt.

Part No.	Max. Bolt Diameter (in)	Standard Package	Weight (lbs/100)
P135AXW	5/8	25	100
P133AX	3/4	25	160

Other sizes also available.

Thimble Clevis



For attaching deadends to flat steel surfaces like I-beams, angle irons, ski lift towers, etc.

Part No.	Wire Groove Dia. (in)	Clevis Opening (in)	Pin Dia. (in)	Std. Pkg.	Weight (lbs/100)
J575	1-1/2	1	5/8	50	99

Angle Thimbleyelets



For attaching down guy strand to pole. Are mounted on pole using a standard 5/8" thru/machine bolt.

Part No.	Maximum Bolt Diameter (in)	Standard Package	Weight (lbs/100)
J6500	5/8	50	127

Other sizes also available.

45° Angle Thimbleye Bolts



For attaching down guy strand to pole. Length is measured from below the eye to the last thread.

Part No.	Max. Bolt Dia. (in)	Length (in)	Thread Length (in)	Standard Package	Weight (lbs/100)
J8151	5/8	10	4	25	136
J8152	5/8	12	6	25	150
J8153	5/8	14	6	25	164
J8154	5/8	16	6	25	184

Other sizes also available.

Guy Clamps



The traditional method for making a guy strand loop through an anchor eye or down guy pole attachments.

Part No.	No. Bolts	Strand Sizes (in)	Standard Package	Weight (lbs/100)
J1061	1	3/16 to 3/8	50	63
J930	3	3/16 to 7/16	20	224
J931	3	5/16 to 1/2	20	256

Other sizes also available.

Guy Attachment Strap



Hot-dip galvanized guy attachments featuring a closed strand loop and well-rounded wire grooves to protect the strand from damage. Lower mounting hole is designed for a 1/2" lag screw.

Part No.	No. Bolts	Strand Size (in)	Standard Package	Weight (lbs/100)
J25164	1	11/16		113

Service Mast Brackets



Clamps to 1.25" to 3" pipe. A slot on the end of the front strap permits installation without removing the bolts, then captures the square carriage bolt shoulder to prevent it from turning or slipping after installation.

Part No.	Standard Package	Weight (lbs/100)
J0590	50	105

Staples



Used to secure ground wire and ground wire molding to wood poles. Staples are sold by the pound.

Part No.	Type	Length (in)	Inside Width (in)	Std. Pkg. (lbs)	No. Pieces per lb.
J6652	Copperweld	1-1/2	3/8	50	56
J6498	Copperweld	2-1/2	1-1/16	4	100
J7487HDG	Hot-Dip Galv.	2-5/8		100	44
J6493	Coppercoated	1-1/4	1/4	500	167
J7487	Electro-Galv.	2	5/8	100	44

Other sizes also available.

Sidewalk Guy Fittings

J1501



J1502



Malleable iron fittings to be used with standard 2" pipe near sidewalks and buildings where there is insufficient

space for standard guying and head clearance must be maintained.

Part No.	Item	Pipe Size (in)	Standard Package	Weight (lbs/100)
J1501	Pole Plate	2	10	380
J1502	Clamp End Fitting	2	10	521

Other sizes also available.

Anchor Rods



For guying with expanding anchors. Furnished with a special heavy square nut.

Part No.	Rod Dia. (in)	Rod Length (ft)	Standard Package	Weight (lbs/100)
Thimbleye Rods				
J7415	5/8	5	10	550
J7416	5/8	6	10	650
J7417	5/8	7	10	750
J7418	5/8	8	5	850
Twineye Rods				
J7516	5/8	6	10	650
J7517	5/8	7	10	750
J7528	3/4	8	5	1,270
Nuts				
J85631	5/8 (Heavy Duty Nut)		13	

Other sizes also available.



8-Way Expanding Anchors

For anchoring pole down guys *in soil* at points where a pole line angles, corners or deadends. Does not include anchor rods.

Part No.	Rod Size (in)	Hole Size (in)	Area (sq. in)	Std. Pkg.	Weight (lbs/100)
J0870	5/8	6	70	12	570
J8115	5/8 or 3/4	8	115	6	897
1082	1	10	200	4	1,979
J820034	5/8 or 3/4	10	200	4	1,925

Other sizes also available.

Expanding & Tamp Bar



Simplifies the job of expanding anchors by distributing the weight of the bar evenly around the anchor rod to reduce handle vibration. The hook wraps around the rod to keep the expanding head from slipping off the top plate. The tool also can be used for tamping in soil above the installed anchor.

Part No. C3020003 - 10' bar

Part No. C3020004 - 12' bar

No-Wrench Screw Anchors



An integral forged eye anchor with a helix welded to the shaft. 66" long. For manual or machine installation.

Part No.	Helix Size (in)	Rod Dia. (in)	Std. Pkg.	Bundle Quantity	Weight (lbs/ea.)
J6526WCA	6	3/4	1	100	10.9
J6528WCA	8	1	1	60	19.1
J6530WCA	10	1-1/4	1	20	30.3

Other sizes also available.

Rock Anchors



Malleable iron expanding rock anchors fit into 1-7/8" or 2-3/8" dia. holes. Includes 3/4" and 1" rods, 15"-8' in length. Anchors are coated and rods are hot-dip galvanized.

Part No.	Rod Dia. (in)	Rod Length (in)	Hole Size (in)	Std. Pkg.	Weight (lbs/ea.)
J3437	3/4	30	1-3/8	5	7
J3438	3/4	53	1-3/8	5	10
JR384	3/4	84	1-7/8	5	13
JR153L	1	53	2-3/8	3	18

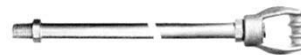
Other sizes also available.

Power Hub Anchors



Part No.	Description	Standard Package	Weight (lbs/each)
D1046	10" Helix for 3/4" or 1" Rod	4	13
D846	8" Helix for 3/4" or 1" Rod	4	10

Power Hub Anchor Rods



Part No.	Description	Standard Package	Weight (lbs/each)
D100T	1" x 7' Rod & Tripleye Nut	1	18

"B" Strand Ground Clamp



For bonding metallic cable sheaths and shields to messenger strand.

Part No.	Standard Package	Weight (lbs/100)
J7956	100	52

Bronze Bonding Clamp



For a wide variety of jumper applications.

Part No.	Standard Package	Weight (lbs/100)
J8300	100	16

Ground Rods Copperweld and Galvanized Steel



Part No.	Type	Rod Size Dia. x Length	Standard Package	Weight (lbs/100)
611255	Copperweld	1/2" x 5'	5	315
611265	Copperweld	1/2" x 6'	5	400
611285	Copperweld	1/2" x 8'	5	600
615883	Copperweld	5/8" x 8'	5	800
811350	Galvanized Steel	1/2" x 5'	10	330

Other sizes also available.

Ground Rod Clamps



For attaching copper ground wire to rods having no pigtailed.

Part No.	Rod/Pipe Size (in)	Ground Wire Sizes	Standard Package	Weight (lbs/100)
Copperweld				
J8491	1/2	2-10 AWG	100	16
J8492	5/8	1/0-8 AWG	100	18
Galvanized steel				
J25932	5/8	2-10 AWG	100	16
Bronze				
CP58	1/2, 5/8	2-10 AWG	50	11

Other sizes also available.

Universal Strap for ground rods or pipes

Part No.	Rod Size (in)	Ground Wire Sizes
EM5517	3/8-2	6-14 AWG

Split-Bolt Bridging Connectors



For connecting copper jumper wire or ground wire to a copper conductor.

Part No.	Max. Wire Size Solid/Stranded	Weight (lbs/100)
SI2004	4 AWG/4 AWG	8
SI2006	6 AWG/8 AWG	6
SI2008	8 AWG/8 AWG	2

Other sizes also available.

Flip-On Tap Clamp



For bonding ground wire to messenger strand, bonding two strands together, or electrically bypassing a strain insulator. Line side 1/4" to 7/16" strand; tap side - 2 to 10 AWG solid copper.

Part No.	Standard Package	Weight (lbs/100)
438ALC	50	16

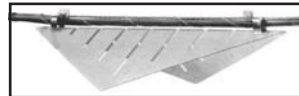
Ground Connector



Designed for connecting a ground wire to the messenger strand where self-supporting cable is used. The teeth of the connector penetrate the insulation of the messenger to form a positive ground. Constructed of tin-plated bronze.

Part No.	Standard Package	Weight (lbs/100)
SI2172	50	22

Aerial Cable Damper Kit



Designed to use the force of the wind to aerodynamically reduce the movement and oscillation of aerial cable.

Kit includes a high-grade aluminum alloy damper plate, two stainless steel lashed cable supports and two "D" lashing clamps. For use on cables of 18 to 150 pairs.

Part No.	Standard Package	Weight (lbs/each)
2880001	1	1.6

Auxiliary Eyes



For adding an extra thimbleye to an anchor rod. The most economical method when the "eye" of a previously installed anchor rod is filled.

Part No.	Rod Size (in)	Standard Package	Weight (lbs/100)
PA155	5/8 to 3/4	15	270

Strain Insulators

Made of porcelain for maximum strength.



Part No.	Tensile Strength (lbs)	Length (in)	Dia. (in)	Hole (in)	Std. Pkg.	Weight (lbs/100)
502	10,000	3-1/2	2-1/2	5/8	50	128
504	12,000	4-1/4	2-7/8	7/8	50	178

Other sizes also available.

Lag Screws

Gimlet point lag screws are screwed in with a wrench. Fetter drive lag screws may be driven in with a hammer or screwed in with a wrench.



Part No.	Size (in)	Type/Thread	Standard Package	Weight (lbs/100)
J872212	1/4 x 2-1/2	Gimlet	2,000	3
J873212	5/16 x 2-1/2	Gimlet	1,000	6
J8743	3/8 x 3	Fetter Drive Regular Point	850	10
J8744P	3/8 x 4	Fetter Drive Point	500	13
J8753P	1/2 x 3	Fetter Drive Point	250	19
J8754P	1/2 x 4	Fetter Drive Point	250	23
J8765	5/8 x 5	Fetter Drive Regular Point	100	44

Other sizes also available.

"C" Wire Tangent Supports



Preformed neoprene covered stainless steel for straight runs. The loop goes over the drive hook, and the ends are spiraled around the "C" wire in both directions. Each size is color-coded to match wire size. No tools necessary.

Part No.	For Wire Type	Color Code	Length (in)	Std. Pkg.	Weight (lbs/100)
TS2100	14 AWG black	white	18	10	8
TS2103	12 AWG black	yellow	18	10	8
TS2106	Red jacketed 14,12,10 AWG	red	19-1/2	10	9

"C" Wire Deadends



Preformed stainless steel, for dead-ending "C" wires at angles/corners. Loop goes over drive hook or through thimbleye bolt, and the ends are spiraled around wire in same direction. Two deadends required for each attachment. Each size is color-coded to match wire size. No tools necessary.

Part No.	For Wire Type	Color Code	Length (in)	Std. Pkg.	Weight (lbs/100)
NDE8500	Red jacketed 14,12,10 AWG	red	21	10	17
NDE8502	14 AWG Black	white	22	10	16
NDE8503	12 AWG Black	yellow	30	10	22

"D2" Clips

For drop wire snub attachments.



Part No.	For Wire Type	Standard Package	Weight (lbs/100)
D2	2C18 1 or 2 pair	50	1
D6	6 pair	50	1

"RE" Clips

For attaching drop wires to walls.



Part No.	For Wire Type	Standard Package	Weight (lbs/100)
RE	2C18	25	1
RE2	2 or 3 pair	50	1
RE6	6 pair	50	2

Drive Rings



For attaching wires along buildings, beams, etc. Driven with hammer.

Part No.	Ring Dia. (in)	Length (in)	Shank Under Ring (in)	Std. Pkg.	Weight (lbs/100)
3000801	1/2	2-1/16	1-3/8	50	2
3000804	5/8	2-1/16	1-1/4	25	3
3000805	7/8	2-9/16	1-1/2	25	6

Drive Hooks, Pilot Point



For drop wire and "C" wire pole attachments. Heavy duty 7/16" galvanized steel drive hook with fether drive threads for hammering into poles. The pilot point gives easily, no-bounce starts.

Part No.	Length (in)	Standard Package	Weight (lbs/100)
J3316P	4-7/8	200	25

Long "P" House Hook



Used to secure CATV drop wire to customer premises which are aluminum, vinyl or steel sided. Made of high quality steel, shank threaded for installation in wood surfaces.

Part No.	Length (in)	Standard Package	Weight (lbs/100)
3100809	4-1/2	200	7.8

House Hooks



For deadend attaching of drop wire to building. Hook attached with separate wood screw. Bail of drop wire clamp slips over hook.

Part No.	Standard Package	Weight (lbs/100)
3001732	100	4

Pole Steps



Hot dip galvanized. Rolled fether drive threads and a wide, flat driving surface make installation fast and easy. Knurled ring indicates the proper driving depth.

Part No.	Length (in)	Weight (lbs/100)
J1118	5/8 x 10	98

Service Wireholder



Ultraviolet stabilized nylon alloy compound with reinforced fibers. Square flat top can be used with a hammer to start installation. Each package includes a supply of installing tools for use with a 1/2" drive cordless drill. Lag screw diameter is 11/32"; Length is 2-1/4". 50 per package.
Part No. J089Z

Drop Wire Clamp ("P" Clamp)

Standard stainless steel wedge clamp for attaching drop wire runs from pole or mid-span clamps to buildings. Three-pair cable uses two-pair clamps.

2 pr. = 2 clamps per plastic bag
6 pr. = 10 clamps per plastic bag



Part No.	Pair Count	Body/Shim Material	Shim Type
2PRMS	2 and 3	Stainless Steel	Perforated
6PRDS	6	Stainless Steel	Dimpled

Secondary Racks

The 1/8" thick steel extended back is 3-1/4" wide and curved to fit the pole. Attached with 5/8" bolts. Use J101 porcelain insulators (order separately).



Part No.	No. Wires	Wire Spacing	Length (in)	Standard Package	Weight (lbs/100)
J767	2	8	18	5	540
or	3	4	18	5	540
J768	3	8	26	5	760

Deadend Clevis



Attaches with 5/8" diameter bolt. Uses J101 porcelain insulator (order separately). Has two sharp projections in the back to prevent it from twisting.

Part No.	Standard Package	Weight (lbs/each)
J250	25	152

Spool Insulators

Horizon Glaze® (light blue) dry process insulator for J250 Clevis, J767 and J768 racks.



Part No.	Bolt Size (in)	Standard Package	Weight (lbs/100)
J101	5/8	50	116

Guy Guards



For giving a highly visible Down Guy warning alert to vehicles and pedestrians. Bright yellow, weather resistant, high-impact plastic. One size fits all popular strands.

Part No.	Length (ft)	Standard Package	Tube O.D. (in)	Weight (lbs/100)
PG5516	6	25	1-1/2	108
PG5518	8	25	1-1/2	140
96FRPMYEL	8	20	1-1/2	120

Other sizes also available.

Tree Guards



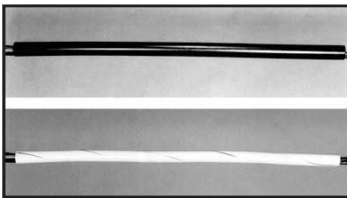
Designed to protect bare conductors and fabric-covered or plastic-covered cables against mechanical abrasion caused by tree limbs or other obstructions. Tree guards provide fast, easy application without disconnecting the wire.

Part No.	Dia. Min.	Range Max.	Length (ft)	Wall Thickness	Wt./lbs per carton
PTG0125	.479	.511	6	.0625	32
PTG0143	.707	.762	6	.09375	46
PTG0146	.763	.820	6	.09375	48
PTG0152	.883	.947	6	.09375	56
PTG0155	.948	1.010	6	.09375	58

Other sizes also available.

Split Tube Cable Protector

Semi-rigid U.V. stabilized exterior poly tube, wraps around and protects cable, standard color is black.



Part No.	Size
PTG0201	1/2" x 6'
PTG0203	1" x 6'
PTG0205	1-1/2" x 6'
PTG0207	2" x 6'

Cable Guards



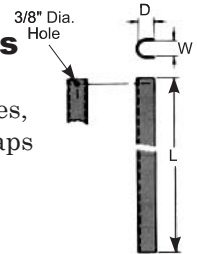
Strapless flanged U-shaped cable guards of heavy-gauge galvanized steel. Green finish.

Part No. UP1258G - 1-1/4" x 8' guard

Part No. UP2258G - 2-1/4" x 8' guard

"U" Cable Guards and Straps

For protecting cable from collision or vandalism from ground level, up on poles, or sides of buildings. Attached with straps using 1/4" lag screws on poles.



Guards

Part No.	Length (ft)	Inside Dia. (in)	Standard Package	Weight (lbs/100)
J984	8	1-1/8	5	700
J985	5	1-1/8	5	470
J991	8	1-1/4	5	900
J987	8	2-3/16	5	1340
J989	8	3-3/16	2	2000

Other sizes also available.

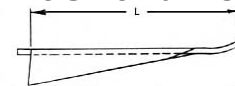
Straps



Part No.	For Guard No.	Standard Package	Weight (lbs/100)
J995	J984, J985, J991	250	19
J996	J986, J987	200	21
J997	J989	50	69

Other sizes also available.

Cable Rack and Hook



Hot dip galvanized; used for supporting cable runs in manholes and vaults.

Made from 3/16 x 9/16 x 1-1/2" hot rolled channel with T-slots for attaching hooks spaced at 1-1/2" intervals. 3/4 x 19/32" mounting slots at each end interlock so that two racks may be combined as one unit.

Cable hooks are formed to protect cable from damage. They fit snugly into the rack slots and have turned up ends to help prevent the cable or cable rack insulator from slipping off.

Cable Rack

Part No.	Length (in)	Mounting Hole Spacing (in)	No. Holes	Weight (lbs/100)
J5124	15	13-1/2	8	150

Cable Hook

Part No.	Extension from Face or Rack (in)	Weight (lbs/100)
J5132A	7-1/2	90

The Mile Estimator

AERIAL CONSTRUCTION 40 POLES PER MILE

Description	Part No.	AVG/Mile	U/M
1/4" EHS Strand – Class A – Domestic <i>pg. A-6</i>	STRAND141	6,000	FT
Type 430 Lashing Wire <i>pg. A-3</i>	LASH0451	12	EA
6" No-Wrench Screw Anchors <i>pg. A-11</i>	J6526WCA	12	EA
6" 8-Way Expanding Anchor <i>pg. A-11</i>	J0870	12	EA
8" 8-Way Expanding Anchor <i>pg. A-11</i>	J8115	12	EA
5/8" x 6' Anchor Rod <i>pg. A-11</i>	J7416	12	EA
5/8" x 10" Machine Bolt <i>pg. A-7</i>	J8810	5	EA
5/8" x 12" Machine Bolt <i>pg. A-7</i>	J8812	15	EA
5/8" x 14" Machine Bolt <i>pg. A-7</i>	J8814	10	EA
5/8" x 16" Machine Bolt <i>pg. A-7</i>	J8816	3	EA
5/8" x 10" Straight Thimbleye Bolt <i>pg. A-7</i>	J8051	2	EA
5/8" x 12" Straight Thimbleye Bolt <i>pg. A-7</i>	J8052	4	EA
5/8" x 14" Straight Thimbleye Bolt <i>pg. A-7</i>	J8053	2	EA
5/8" x 16" Straight Thimbleye Bolt <i>pg. A-7</i>	J8054	1	EA
5/8" Square Nut <i>pg. A-9</i>	J8563	40	EA
2" x 2" Square Washer 11/16" Hole <i>pg. A-9</i>	J1074	80	EA
3-Bolt Suspension Clamp with Flat Keeper <i>pg. A-7</i>	J1096	35	EA
3-Bolt Curved Suspension Clamp <i>pg. A-7</i>	J7901A	5	EA
Guy Attachment Strap 2" x 3/16" with 11/16" Hole <i>pg. A-10</i>	J25164	12	EA
Guy Guard – Yellow – 8' <i>pg. A-15</i>	PG5518	6	EA
Two-Piece Lashing Wire Clamp "D" <i>pg. A-3</i>	2609010	80	EA
10" Zinc Strap Cable Support <i>pg. A-3</i>	3408911	60	EA
16" Zinc Strap Cable Support <i>pg. A-3</i>	3408921	20	EA
Semi tin-plated clamp with one bare bronze groove <i>pg. A-12</i>	J8300	5	EA
1/4" Automatic Splice Strandlink <i>pg. A-6</i>	5000	3	EA
1/4" Guy Grip Deadends - "B" Coat <i>pg. A-5</i>	GDE1104	5	EA
1/2" Plastic Spacer <i>pg. A-3</i>	3408850	80	EA
5/8" x 8' Copper Ground Rod Copperweld - UL Listed <i>pg. A-12</i>	615883	5	EA
5/8" Ground Rod Clamp - UL Listed <i>pg. A-12</i>	J8492	5	EA
6 Galvanized Copper Wire Bare Solid <i>Power pg. 6</i>	1C6B1WIRE	63	FT
1-1/4" x 1/4" Copper Coated Staples <i>pg. A-10</i>	J6493	20	EA
2" x 5/8" Galvanized Staples <i>pg. A-10</i>	J7487	20	EA