



Pole Line Hardware Catalog



MPS provides high quality pole line hardware for virtually all construction applications.

MacLean Power Systems' Pole Line Hardware has been manufactured for over 100 years for the Power Utility and Telecommunications industries. Our reputation of quality, reliability and product durability has been earned and sustained through our rigid specifications, manufacturing processes, raw material requirements and quality assurance standards. MPS's integrity has withstood the test of time.

Product Offering

This catalog section includes our standard line of Pole Line Hardware – those items commonly used by electric and telephone utilities and CATV systems. Large hardware inventories are maintained by our nationwide network of experienced electrical and telecommunications distributors as well as at our hardware manufacturing facilities in Franklin Park, Illinois and Birmingham, Alabama.

Numerous other hardware products, not shown in this catalog, are produced for customers on special orders in quantities that justify production. Contact us for your requirements of non-standard hardware items. Constantly changing construction needs and practices require new products. Our experienced staff can assist in the design, development, testing and manufacture of special products where standard items are not suitable and an alternative design is required.

Specifications

MPS Pole Line Hardware is designed and manufactured primarily from specially selected steel, or ductile/malleable iron castings with chemical and physical properties most suitable for product performance and applications in which they are used. In addition, MPS also manufactures products from various types of materials including wood, aluminum and plastic alloys – such as our nylon alloy insulator threads on forged steel crossarm pins. MPS products are engineered for strength, reliability, durability and ease of installation. Our modern, efficient production equipment and rigid quality control standards assure that MPS hardware is consistently of the highest obtainable quality.

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MacLean Power Systems

Please note that because MacLean Power Systems follows a policy of continuous product improvement, we reserve the right to change specifications and drawings at any time without notice.

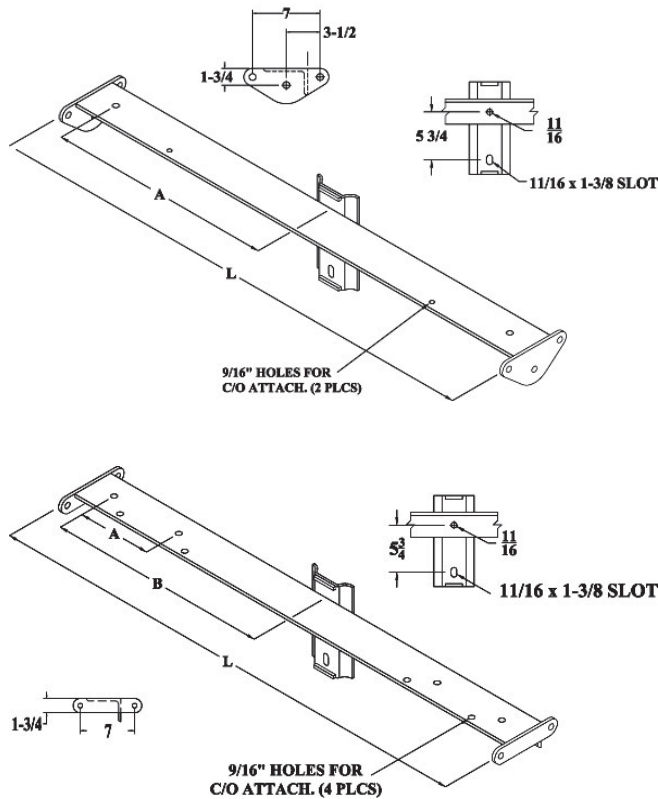


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Arms, Steel



Steel Arms

Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

Features

- Multiple bolt holes for a variety of conductor attachment points permit assembly of jumper pins and arrester/equipment mounting brackets
- Provided with a center mounting plate for attachment to pole

Material

Steel hot dip galvanized

Steel Crossarm (3" x 5" x 3/8" Angle)				
Catalog Number	L	A	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
D-21140-GA	60	27	5000	59

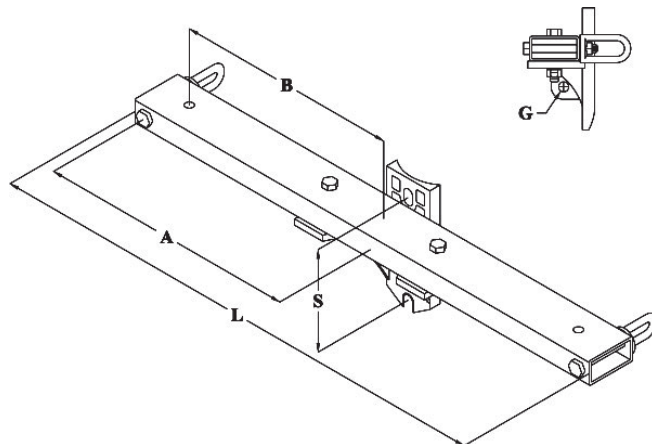
Notes:

- 1) All holes are 11/16" diameter unless otherwise noted
- 2) Strength ratings based on balanced load applications

Steel Crossarm (3" x 5" x 3/8" Angle)					
Catalog Number	L	A	B	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
D-21143-GA	78	20	32	4000	70

Notes:

- 1) All holes are 11/16" diameter unless otherwise noted
- 2) Strength ratings based on balanced load applications



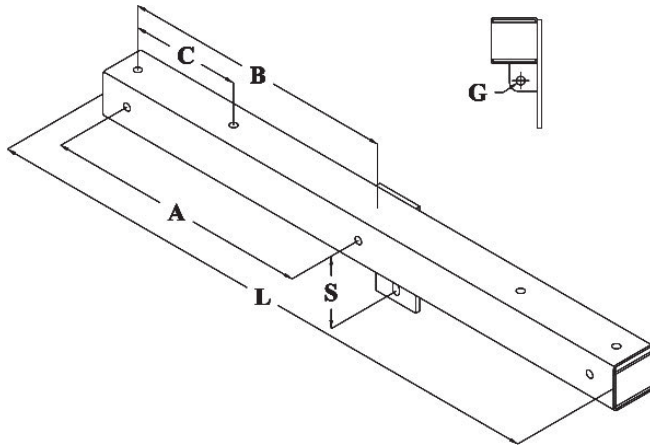
Steel Crossarm (2" x 4" Rectangular Tubing)							
Catalog Number	L	A	B	G	S	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
DEA86H40BE6	42	20	18	13/16	8	10000	37
DEA86H46BE6D	48	23	21	13/16	8	9500	43
DEA86H58.5BE6	60	29	27.25	13/16	8	9000	50
DEA86H58.5BE6D	60	29	27.25	13/16	8	9000	52

Notes:

- 1) All holes are 13/16" diameter unless otherwise noted
- 2) Suffix "D" indicates double deadend hardware (eyelets on both sides of arm)
- 3) Strength ratings based on balanced load applications



Arms, Steel



Steel Arms

Steel crossarms are produced from structural steel angle or tubing for high strength deadend and tangent applications.

Features

- Multiple bolt holes for a variety of conductor attachment points permit assembly of jumper pins and arrester/equipment mounting brackets
- Provided with a center mounting plate for attachment to pole

Material

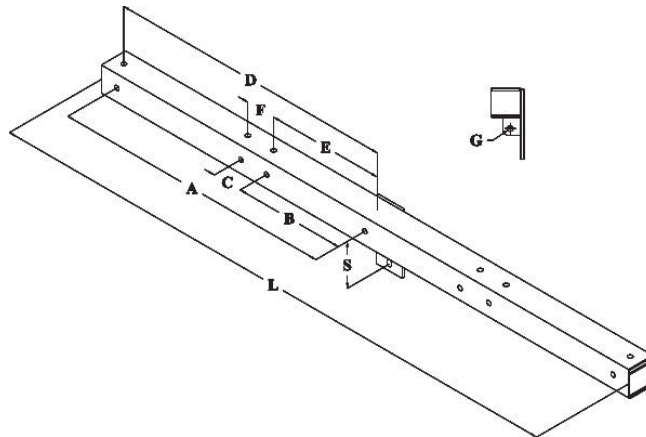
Steel hot dip galvanized

Steel Crossarm (5" x 5" Square Tubing)

Catalog Number	L	A	B	C	S	Ult Strength Rating Per Phase (lbs)	Weight Ea (lbs)
SF-TA-68-64	64	29	20	12	8	8000	80

Notes:

- 1) All holes are 13/16" diameter unless otherwise noted
- 2) Strength ratings based on balanced load applications



Steel Crossarm (5" x 5" Square Tubing)

Catalog Number	L	A	B	C	D	E	F	G	S	Weight Ea (lbs)
SF-TA-102-FPL	102	48	19	5	49	20	5	15/16	8	118

Notes:

- 1) All holes are 13/16" diameter unless otherwise noted
- 2) Strength ratings based on balanced load applications

Hole Spacings	19	24	48	Load / Connection
6 wire (3/Phase)	x	x	x	2500 lbs.
4 wire (2/Phase)	x		x	3500 lbs.
4 wire (2/Phase)		x	x	3000 lbs.
2 wire (1/Phase)			x	5000 lbs.



Bands, Pole



Link Style Pole Bands

Link style pole bands provide an ideal product for guying and deadending to steel, wood or concrete poles (non-square) without the need for bolt holes in the pole. The bands will accommodate pole diameters from a minimum of 8" through a virtually unlimited maximum pole diameter.

Features

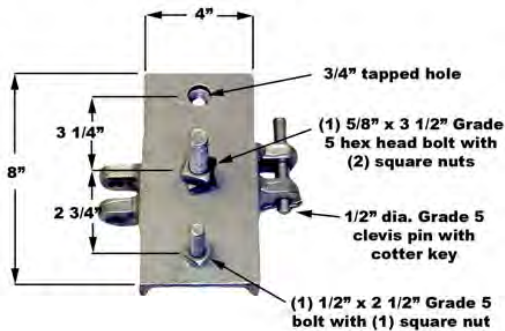
- Available in 15,000 lbs and 30,000 lbs Tensile Strength Rating
- Supplied with up to 4 links with connecting eye used for terminating points to deadend and guy
- One "CLP" clip included - allows a 4" take up adjustment of band assembly.
- Additional CLP can be ordered for additional adjustment
- Full and half links are available to order for additional adjustments

Material

Links: Ductile iron hot dip galvanized
Hardware: Steel hot dip galvanized
Cotter Key: Stainless steel



UCB	-	XX	-	XX
Tensile Strength Rating (lbs)		Pole Diameter (in)		E = Includes 1 eye link
UCB = 15000		Please Specify		2E = Includes 2 eye links
UCB30 = 30000				



Mounting Bracket

This mounting bracket is used with the UCB 15,000 lb pole bands for mounting messenger suspension clamps in telecommunication construction applications and crossarm or electrical equipment for power applications.

Catalog Number	Weight (lbs)
SF-TEL-8	7.0



PEL Eye Links

Catalog Number	Tensile Strength Ratings (lbs)	Eye Hole Dia (in)	Weight (lbs)
PEL-15	15000	15/16	2.3
PEL-30	30000	15/16	4.0



Links

Catalog Number	Tensile Strength Ratings (lbs)	A	Fig	Weight (lbs)
P-1/2	15000	1 11/16	1	1.0
P1/2-30	30000	2 3/16	1	2.0
P	15000	3 7/16	2	1.5
P-30	30000	3 7/16	2	3.0



CLP Style Clip 4" Maximum Adjustment

Catalog Number	Tensile Strength Rating (lbs)	Weight (lbs)
CLP-2	15000	5.0
CLP30-2	30000	10.0



Bands, Pole



Strap Style Pole Bands

MPS strap style pole bands have been designed to accommodate a wide range of distribution pole diameters. Each unit incorporates four (4) 3/4" diameter studs and each band section has 9/16" square holes for lag screws.

Features

- Ultimate Tensile Strength: 20,000 lbs
- Band Section: 1/4" x 4" (except J6643 = 5/16" x 3")
- Connecting Link Mounting Position: All Four Sides

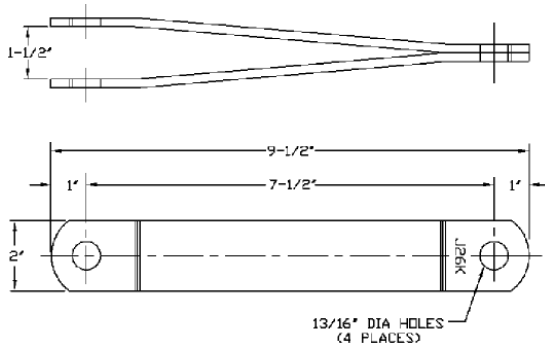
Material

Links: Steel hot dip galvanized
Hardware: Steel hot dip galvanized

Catalog Number	Pole Diameter Range (in)	Weight (lbs)
J6641	9 1/2 - 13 1/2	16.0
J6643	7 - 9 1/2	13.2
J6644	8 - 11	15.0
J6684	12 - 16	18.6

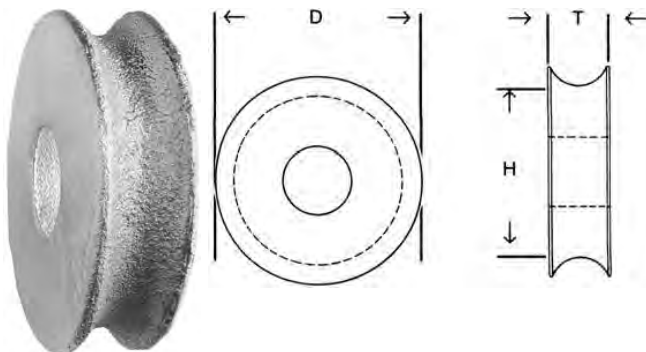


Connecting Link



Catalog Number	Size (in)	Length	Hole Size (in)	Ultimate Strength (lbs)	Weight /100 (lbs)
J6650	1/4 x 2 x 9 1/2	7 1/2	13/16	20000	261

* Each J6650 consists of one pair (two halves)

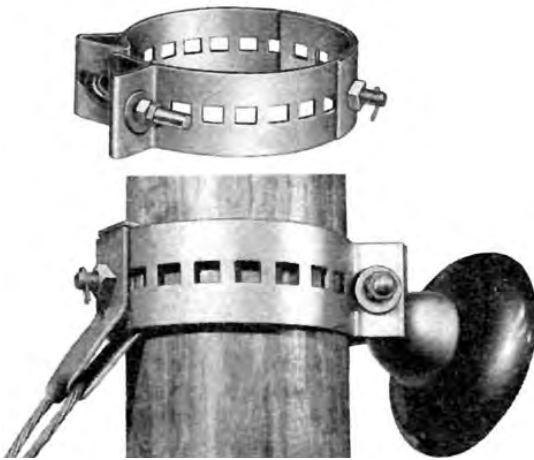


Guy Roller

Catalog Number	Hole Size (in)	Wireseat Radius (in)	D	H	T	Weight /100 (lbs)
J6288	13/16	0.41	2 3/8	2 1/16	13/16	64



Band, Pole



Universal Style Bands

MPS universal wrap-around type pole bands are ideal for deadending, guying and spare arm suspension assemblies.

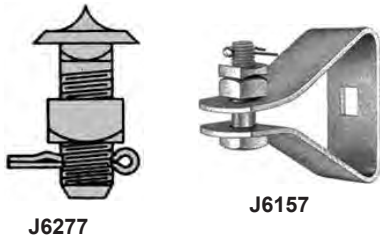
Features

- Installs in minutes
- Assembled with one 3/4" curved bolt and one J6277 cone head bolt

Material

Steel hot dip galvanized

Catalog Number	Pole Diameter Range (in)	Steel Size	Weight (lbs)
J6270	8 - 14	4 x 3/16	14.0
J6280	6 - 10	4 x 3/16	11.0



J6277

J6157

Universal Band Accessories

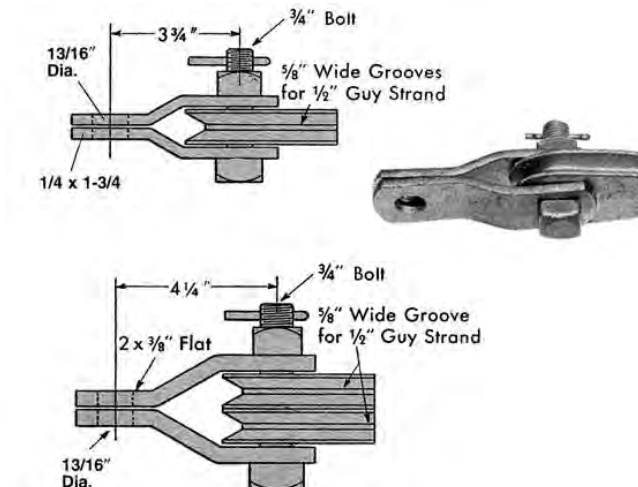
Cone head bolts are used to attach fittings to universal bands. Installed from the inside of the band, the square shoulder fits into the rectangular band slots and the special head digs into the pole to counteract band slippage.

The J6157 clevis is designed to surround the 4" wide section of a universal pole band, developing great strength for deadending. The deadend clevis is furnished complete with a 3/4" bolt, square nut, concave locknut and a selflocking cotter pin.

Material

Steel hot dip galvanized

Catalog Number	Description	Steel Size (in)	Weight /100 (lbs)
J6157	Deadend Clevis	2 1/2 x 3/16	272
J6277	Cone Head Bolt	3/4 x 2 1/2	50



Guy Attachment Assembly

Catalog Number	Type	Weight /100 (lbs)
J6273	Single	320
J6274	Double	607



Bayonets

Ground Wire

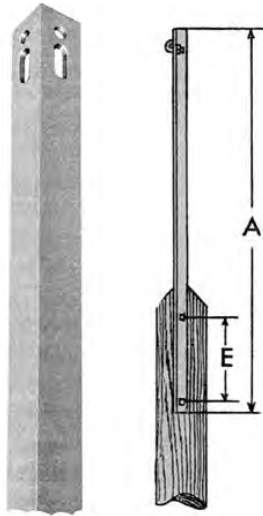
Ground wire bayonets are used for supporting overhead ground wires.

Features

- Top hole and slot 9/16" diameter with 2" hole centers used to mount clamps with 1/2" diameter bolts
- Clamps are not included and should be ordered separately
- Mounting holes for 5/8" machine bolts
- Available in straight and corner styles

Material

Steel hot dip galvanized

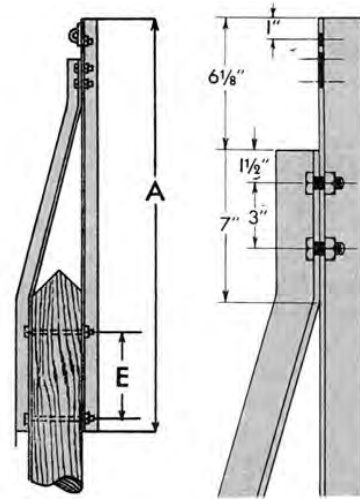


Straight Bayonet

Features

Straight type bayonet consists of one angle with clamp holes punched in both legs to permit mounting the bayonet to either the face or the side of the pole. Straight bayonets also have a 7/16" diameter hole at the bottom for a ground lug if required.

Catalog Number	A	E	Angle Size	Weight /100 (lbs)
J1130	36	10	2 x 2 x 1/4	960
J1132	48	12	2 1/2 x 2 1/2 x 1/4	1600
J1134	84	20	3 x 3 x 1/4	3400



Corner Bayonet

Features

Corner bayonets consist of two angle sections and two 1/2" bolts for fastening them together. One angle is offset to fit 8" diameter poles; however, the legs can either be spread apart or pushed together to fit other diameters. The mounting bolts in the bent legs are slotted to allow for any pole boring inaccuracy.

Catalog Number	A	E	Angle Size	Weight /100 (lbs)
J1135	36	10	2 x 2 x 3/16	1400
J1137	66	15	2 x 2 x 1/4	3440



Bolts



"A" Cable Suspension

"A" cable suspension bolts are supplied with two square nuts. One nut is used to fasten the square head bolt to the pole and the other nut is used to secure a straight or angle cable suspension clamp to the bolt.

Material

Steel hot dip galvanized

5/8" Diameter - Minimum Tensile Strength 13,550			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
JCA6645.A01	8	4	85
JCA6645.A02	10	6	104
JCA6645.A03	12	6	120
JCA6645.A04	14	6	138
JCA6645.A05	16	6	153
JCA6645.A06	18	6	168
JCA6645.A07	20	6	183
JCA6645.A08	22	6	198
JCA6645.A09	24	6	214

3/4" Diameter - Minimum Tensile Strength 20,050			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
JCA6645.A10	10	6	165
JCA6645.A11	12	6	187
JCA6645.A12	14	6	204
JCA6645.A13	16	6	220
JCA6645.A14	18	6	220



Carriage

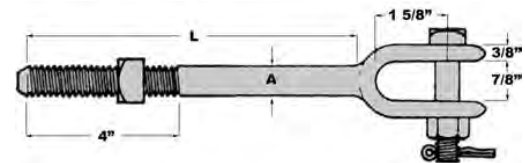
MPS carriage bolts are roll threaded with square shoulder and square nut.

Material

Steel hot dip galvanized

3/8" Diameter - Minimum Tensile Strength 4,250 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J8634	4	3	16
J8634-1/2	4 1/2	3	16
J8635	5	3	18
J8636	6	3	22
J8637	7	4	24
J8638	8	4	26
J8640	10	4	34

1/2" Diameter - Minimum Tensile Strength 8,500 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J8645	5	3	35
J8646	6	3	41
J8647	7	4	44
J8648	8	4	51



Clevis

Clevis bolts are used to provide deadend connections to eyes or links. Clevis end includes 1/2" diameter machine bolt with nut and a stainless steel self locking cotter pin to provide a secure vibration proof assembly.

Material

Steel hot dip galvanized

Material

Steel hot dip galvanized

Minimum Tensile Strength 4,250 lbs			
Catalog Number	Size (in)	Thread Length (in)	Weight /100 (lbs)
J8624-1/2	3/8 x 4 1/2	2	21

Minimum Tensile Strength 13,500 lbs			
Catalog Number	Size (in) [A x L]	Thread Length (in)	Weight /100 (lbs)
J7810	5/8 x 10	4	172
J7812	5/8 x 12	4	192
J7814	5/8 x 14	4	208



Bolts



Double Arming

Double arming bolts are fully threaded and used in double crossarm construction to secure and lock in spacing between crossarms

Features

- Fully threaded and assembled with 4 square nuts
- Ends can accept eyenuts for deadend applications
- Length dimensions do not include points

Material

Steel hot dip galvanized

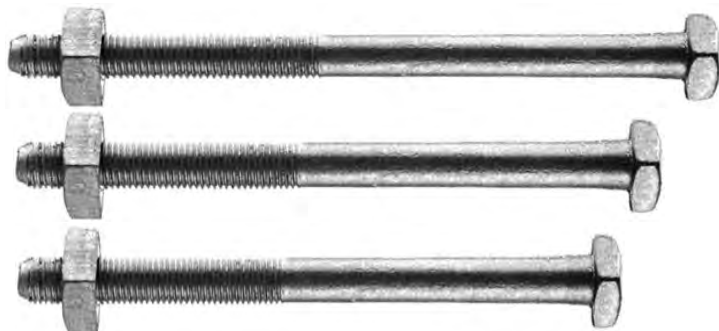
5/8" Diameter - Minimum Tensile Strength 13,550 lbs		
Catalog Number	Bolt Length (in)	Weight /100 (lbs)
J8860	10	118
J8862	12	136
J8864	14	142
J8866	16	158
J8868	18	187
J8870	20	192
J8872	22	208
J8874	24	224
J8876	26	240
J8877	28	256
J8878	30	264
J8879	32	284
J8880	34	295
J8881	36	332

3/4" Diameter - Minimum Tensile Strength 20,050 lbs		
J8883	10	163
J8882	12	196
J8884	14	220
J8886	16	240
J8888	18	260
J8890	20	284
J8892	22	304
J8894	24	336
J8896	26	345
J8897	28	365
J8898	30	386
J8899	32	400
J9003	34	420
J9004	36	460

7/8" Diameter - Minimum Tensile Strength 27,700 lbs		
Catalog Number	Bolt Length (in)	Weight /100 (lbs)
J9112	12	283
J9114	14	312
J9116	16	341
J9118	18	370
J9120	20	399
J9122	22	427
J9124	24	456
J9126	26	485
J9128	28	514
J9130	30	543
J9132	32	572
J9134	34	601
J9136	36	630
J9138	38	659
J9140	40	688
J9142	42	717



Bolts



Machine

Features

- Square head and square nut
- Roll threaded
- Bolts 1/2" diameter and larger and 7" length and longer also have cone points which permit driving without damage to threads

Material

Steel hot dip galvanized

3/8" Diameter - Minimum Tensile Strength 4,250 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lb)
J8603	3	1	13
J8604	4	3	15
J8604-1/2	4 1/2	3	17
J8605	5	3	18
J8606	6	3	21
J8608	8	4	27
J8610	10	4	32

1/2" Diameter - Minimum Tensile Strength 8,500 lbs			
J8701-1/2	1 1/2	1 1/2	18
J8702	2	1 1/4	20
J8702-1/2	2 1/2	1 1/4	23
J8703	3	1 1/4	25
J8704	4	3	31
J8705	5	3	36
J8706	6	3	41
J8707	7	4	48
J8708	8	4	50
J8709	9	4	57
J8710	10	6	60
J8712	12	6	70
J8714	14	6	79
J8716	16	6	89

5/8" Diameter - Minimum Tensile Strength 13,550 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lb)
J8801-1/2	1 1/2	1 1/4	30
J8802	2	1 1/2	34
J8802-1/2	2 1/2	1 1/2	38
J8803	3	1 1/2	44
J8804	4	3	50
J8805	5	3	57
J8806	6	3	62
J8807	7	4	72
J8808	8	4	82
J8809	9	4	88
J8810	10	6	94
J8812	12	6	108
J8814	14	6	125
J8816	16	6	136
J8818	18	6	152
J8820	20	6	170
J8822	22	6	184
J8824	24	6	200
J8826	26	6	224
J8828	28	6	242

3/4" Diameter - Minimum Tensile Strength 20,050 lbs			
J8902	2	1 3/4	57
J8903	3	1 3/4	67
J8906	6	4	101
J8908	8	4	118
J8910	10	6	142
J8912	12	6	162
J8914	14	6	188
J8916	16	6	212
J8918	18	6	228
J8920	20	6	252
J8922	22	6	268
J8924	24	6	296
J8926	26	6	316
J8928	28	6	344

7/8" Diameter - Minimum Tensile Strength 27,700 lbs			
J9062	12	6	240
J9064	14	6	264
J9066	16	6	288
J9068	18	6	320
J9070	20	6	345
J9072	22	6	380
J9074	24	6	430
J9076	26	6	442



Bolts



Oval Eye

Eyebolts are commonly used as an attachment point to secure thimbles, clevises, links and deadend insulators.

Features

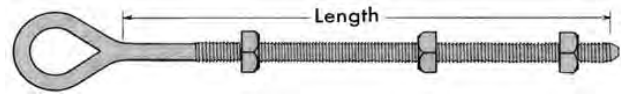
- Forged, one-piece design
- Supplied assembled with square nut
- Eye I.D. - 1 1/2 x 2"

Material

Steel hot dip galvanized

5/8" Diameter - Minimum Tensile Strength 13,550 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J9406	6	4	112
J9408	8	4	128
J9409	9	4	136
J9410	10	6	146
J9412	12	6	156
J9414	14	6	168
J9416	16	6	188
J9418	18	6	212
J9420	20	6	220

3/4" Diameter - Minimum Tensile Strength 20,050 lbs			
J9508	8	4	180
J9510	10	6	200
J9512	12	6	220
J9514	14	6	240
J9516	16	6	256
J9518	18	6	280



Oval Eye - Double Arming

- Double Arming Eyebolts (D.A. Eyebolts) are forged in a one piece design and are commonly used as a combination double arming bolt as well as an eyebolt.
- Double arming eyebolts are fully threaded the entire bolt length except for 2 inches under the eye. They are supplied assembled with three square nuts.
- Eye I.D. 1-1/2" width x 2" length

Material

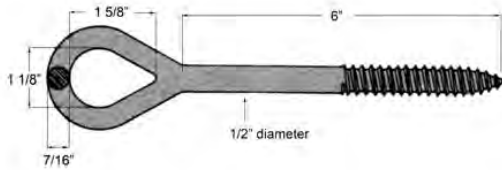
Steel - hot dip galvanized

5/8" Diameter - Minimum Tensile Strength 13,550 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J9614	14	12	204
J9616	16	14	220
J9618	18	16	232
J9620	20	18	244
J9622	22	20	260
J9624	24	22	280
J9626	26	24	300

3/4" Diameter - Minimum Tensile Strength 20,050 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J9636	16	14	300
J9638	18	16	320
J9640	20	18	340
J9642	22	20	360
J9644	24	22	380
J9646	26	24	400



Bolts



Screw Oval Eye

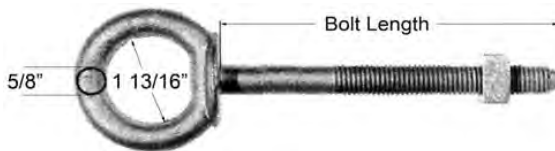
Features

- Forged, one-piece design
- Supplied assembled with square nut
- Eye I.D - 1 1/8" x 1 5/8"

Material

Steel hot dip galvanized

Catalog Number	Bolt size (in)	Thread Length (in)	Weight /100 (lbs)
J8930	1/2 x 6	3	62



Shoulder Eye

Shoulder eyebolts are used to attach suspension and deadend insulators, devices, links and other hardware to poles and crossarms. The integral collar provides a broad bearing surface to resist elongation of the bolt hole in wood poles and crossarms

Features

- 3/4" diameter, forged, one-piece design
- Supplied assembled with square nut
- Ultimate Tensile Strength: 20,050 lbs

Material

Steel hot dip galvanized

3/4" Diameter - Ultimate Tensile Strength 20,050 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J9528	8	4	216
J9530	10	6	221
J9532	12	6	248
J9534	14	6	280
J9536	16	6	320
J9538	18	6	340
J9540	20	6	365



Bolts



Spool

MPS spool bolts are used for side-of-pole installation when supporting neutral conductors and secondary service wires.

Features

- Forged with either a single or double integral washer upset at insulator end
- Double upset provide 1 5/8" clearance between insulator and pole
- Spool bolts have 5/8" rolled threads
- Supplied with all associated hardware as illustrated
- J0101, J101 or J151 insulator must be ordered separately

Material

Steel hot dip galvanized

Single Upset - Minimum Tensile strength 13,550				
Catalog Number	Shank Length (in)	Overall Length (in)	Thread Length (in)	Weight /100 (lbs)
J2343-1/2	9	13 1/2	4	145
J2344-1/2	10	14 1/2	4	156
J2346-1/2	12	16 1/2	6	173
J2348-1/2	14	18 1/2	6	237

Double Upset - Minimum Tensile strength 13,550				
J2395	9	15	4	165
J2396	10	16	4	172
J2398	12	18	6	192



Thimbleye®

Thimbleye® bolts eliminate the need for thimbles, shackles, links and guy hooks. The broad radius of the eye provides an excellent attachment point to deadend or guy messenger wire, guy strand or formed wire grips.

Features

- Forged in two styles: Straight and at 45° angle

Material

Steel hot dip galvanized

Straight Style

5/8" Diameter - Minimum Tensile Strength 13,550 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J8051	10	4	142
J8052	12	6	10
J8053	14	6	172
J8054	16	6	186
J8055	18	6	204

3/4" Diameter - Minimum Tensile Strength 20,050 lbs			
J8062	12	6	228
J8063	14	6	256

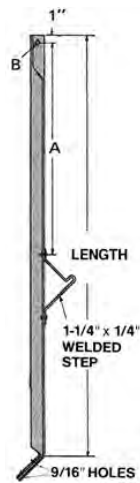
45° Angle Style

5/8" Diameter - Minimum Tensile Strength 13,550 lbs			
Catalog Number	Bolt Length (in)	Thread Length (in)	Weight /100 (lbs)
J8151	10	4	144
J8152	12	6	162
J8153	14	6	184
J8154	16	6	206

3/4" Diameter - Minimum Tensile Strength 20,050 lbs			
J8161	10	4	216
J8162	12	6	240
J8163	14	6	264



Braces



Alley Arm

Alley arms, crossarms mounted to one side of the pole, require rigid bracing to insure proper alignment of power distribution and transmission lines.

Features

- Mount at 45° angle
- Include welded lineman step
- Mount to alley arm using a machine bolt and attach to pole using (2) 1/2" lag screws

Material

Steel hot dip galvanized

Catalog Number	A	B	Angle Size (in)	Length (ft)	Weight /100 (lbs)
J1522	30	9/16	1 3/4 x 1 3/4 x 3/16	5	1300
J1525	30	11/16	1 3/4 x 1 3/4 x 3/16	7	1750
J1526	50	11/16	2 x 2 x 1/4	10	3600

Crossarm, Flat Steel

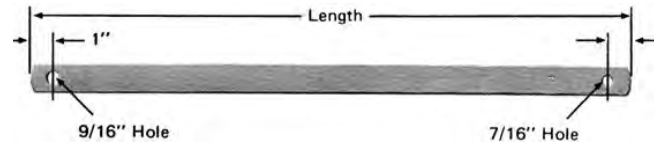
Flat crossarm braces, used in pairs, are an inexpensive means of aligning and supporting crossarms

Features

- Mounting hole diameters are 7/16" for 3/8" crossarm mounting bolts and 9/16" for pole mounting with 1/2" lag screw or through bolt
- Hole centers 1" from brace ends - which are rounded for safety

Material

Steel hot dip galvanized



1 1/4" x 1/4" size			
Catalog Number	Length (in)	Mounting Hole Center (in)	Weight /100 (lbs)
J7126	26	24	230
J7128	28	26	250
J7130	30	28	270
J7132	32	30	280
J7136	36	34	350

Angle

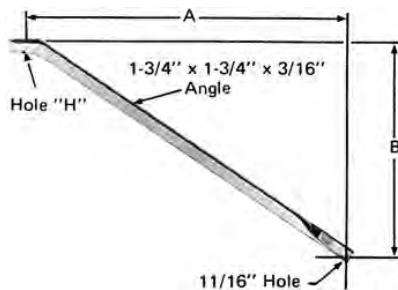
Angle braces are used as tension members on the side of the arm opposite the odd conductor to compensate for the unbalanced load.

Features

- Flat pole mounting end allows for either a right-hand or left-hand member

Material

Steel hot dip galvanized



Catalog Number	A	B	H	Weight /100 (lbs)
J1442	42	27	11/16	950



Braces

Crossarm, Wood

MPS wood crossarm braces are design engineered to support wood crossarms to provide durability, strength and extended service life. MPS wood crossarm braces have better insulation properties than conductive metal braces.

Features

- Lightweight alternative to steel crossarm braces
- Corrosion resistant aluminum end fittings
- Tongue and groove configuration permanently pins end fitting to wood
- Preservative treated, extra strong Apitong wood resists insect, fungus and environmental attack
- Reversible style eliminates need for left- / right-hand braces
- Available in underarm and sidearm styles
- Sold in pairs

Material

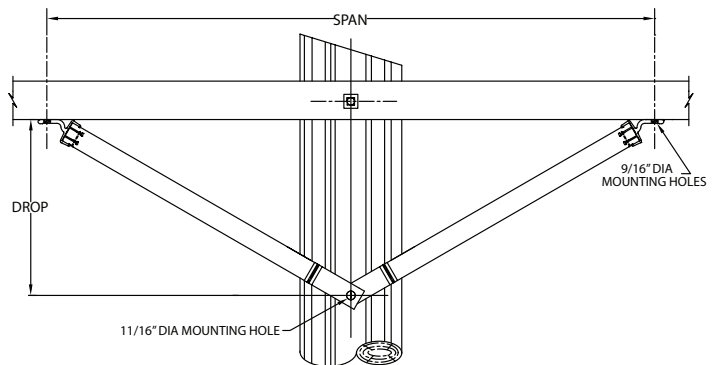
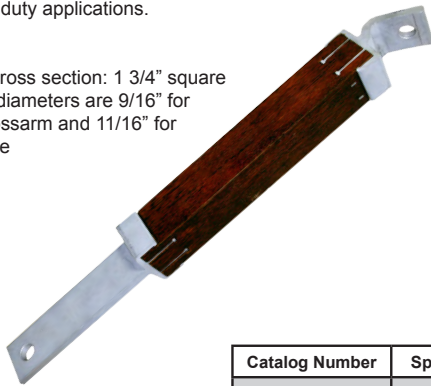
End Fittings: Aluminum alloy
Brace: Preservative treated Apitong wood

Underarm Style

MPS underarm style wood crossarm braces are used for heavier duty applications.

Features

- Apitong wood cross section: 1 3/4" square
- Mounting hole diameters are 9/16" for mounting to crossarm and 11/16" for mounting to pole



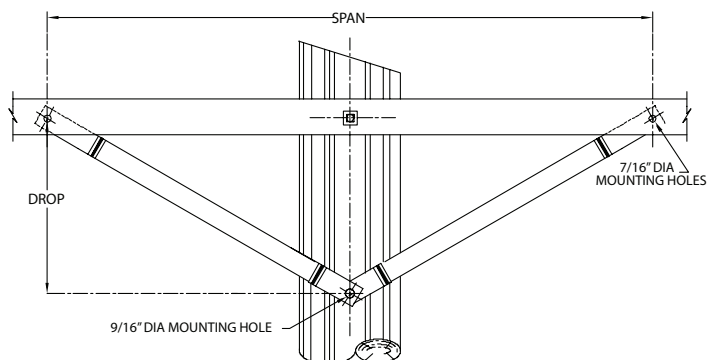
Catalog Number	Span (in)	Drop (in)	Weight / pair (lbs)
JA4730R	60	30	8.0
JA4760R	60	18	6.6
JA4761R	60	26	7.5
JA4766R	66	20	7.2
JA4772R	72	22	7.9
JA4788R	48	18	5.6

Sidearm Style

MPS sidearm style wood crossarm braces are used for lighter duty applications.

Features

- Apitong wood cross section: 3/4 x 1 3/4"
- Mounting hole diameters are 7/16" for mounting to crossarm and 9/16" for mounting to pole



Catalog Number	Span (in)	Drop (in)	Weight / pair (lbs)
JA5526	38	18	2.4



Braces

Double Span, Steel

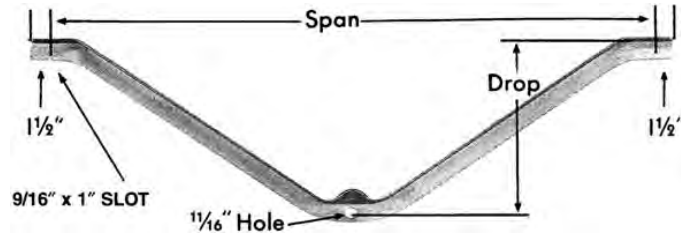
One piece, angle steel, double span braces are used to support heavy crossarm construction.

Features

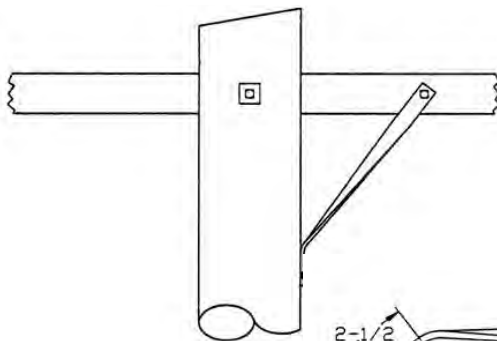
- Mounts to underside of crossarm with 1/2" bolts or lag screws
- Fastened to pole with 5/8" bolt
- Pole mounting section designed to allow ample clearance for wrenching

Material

Steel hot dip galvanized



Catalog Number	Angle Size	Span (in)	Drop (in)	Weight /100 (lbs)
J1506	1 1/2 x 1 1/2 x 3/16	42	12	800
J1514	1 1/2 x 1 1/2 x 3/16	48	18	1000
J1508	1 1/2 x 1 1/2 x 3/16	60	18	1100
J1510	1 3/4 x 1 3/4 x 3/16	60	18	1340
J1512	1 3/4 x 1 3/4 x 3/16	72	22	1500



Guard Arm

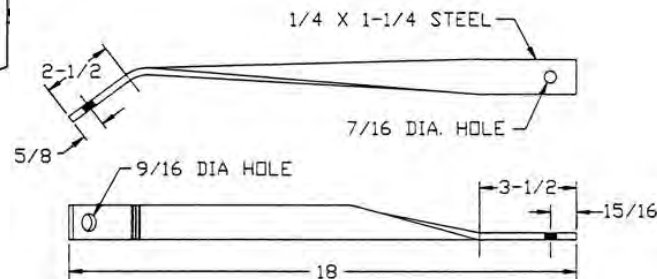
The MPS guard arm brace is used for light duty support and stability of crossarms in telecommunications construction.

Features

- Mounts to crossarm with a 3/8" bolt
- Fastens to pole with a 1/2" lag screw

Material

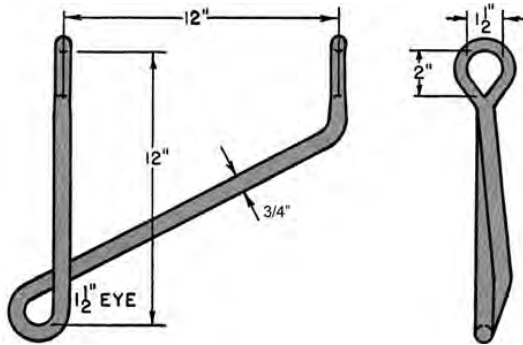
Steel hot dip galvanized



Catalog Number	Weight /100 (lbs)
J8240	170



Brackets



Angle

Angle brackets provide extra clearance for supporting insulator strings and other suspension hardware at angle structures.

Features

- Closed forged oval eyes
- Fasten to crossarm or pole with drop forged clevis bolts

Material

Steel hot dip galvanized

Catalog Number	Stock Diameter (in)	Weight /100 (lbs)
J7936	3/4	520



Angle Double Deadend

Angle double deadend brackets allow angle construction applications by deadending to the two termination points of the bracket.

Features

- Pole mounting slots are 15/16 x 1/2" to accommodate 7/8" diameter bolts

Material

Ductile iron hot dip galvanized

Catalog Number	45° Ultimate Strength (lbs)	Weight /100 (lbs)
PX44	40,000	770
PX44LT	40,000	770

Notes:

Suffix "LT" denotes less teeth for use on steel or concrete poles

Brackets

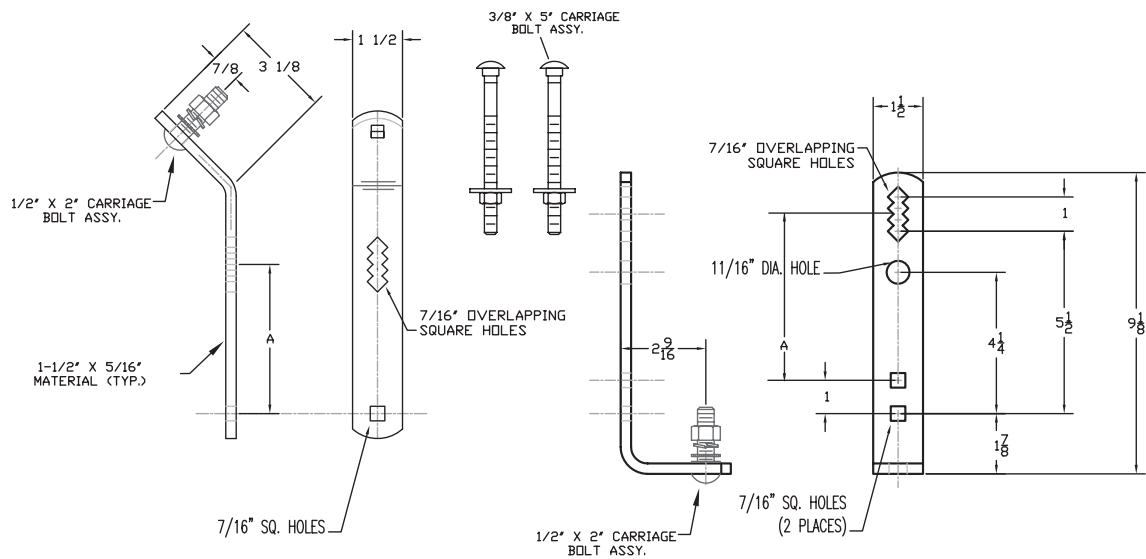
Apparatus Mounting Brackets

Features

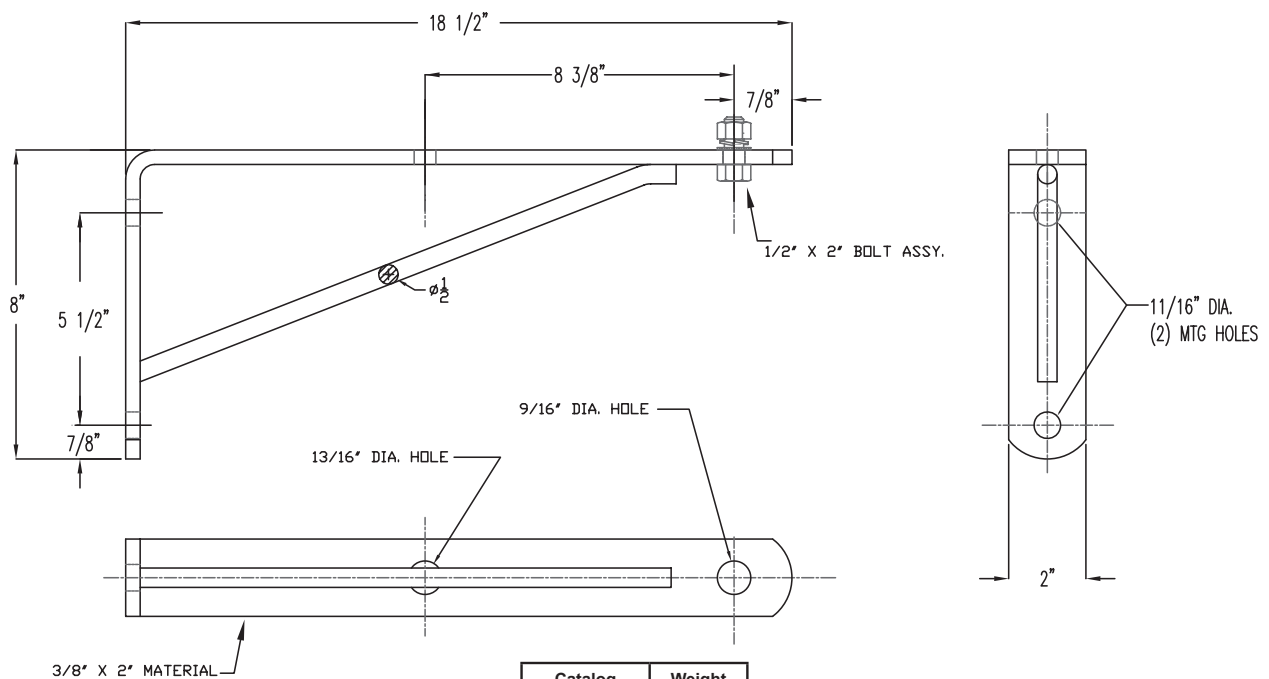
- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

Steel hot dip galvanized



Catalog Number	Steel Size	A	Weight /100 (lbs)
U35930	5/16" x 1 1/2"	4 1/2" to 5 1/2"	355



Catalog Number	Weight /100 (lbs)
U8101-AC-HDW	355



Brackets

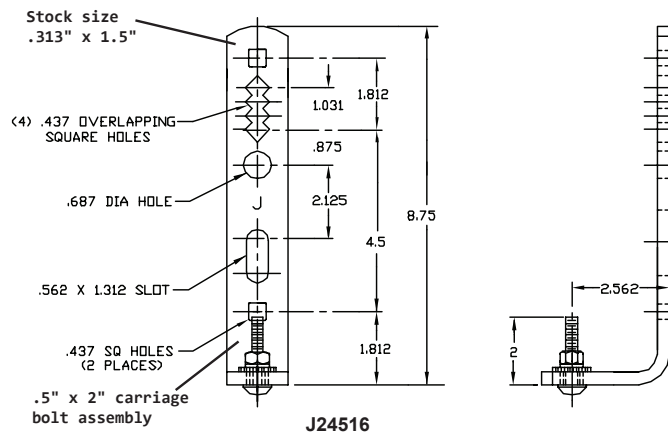
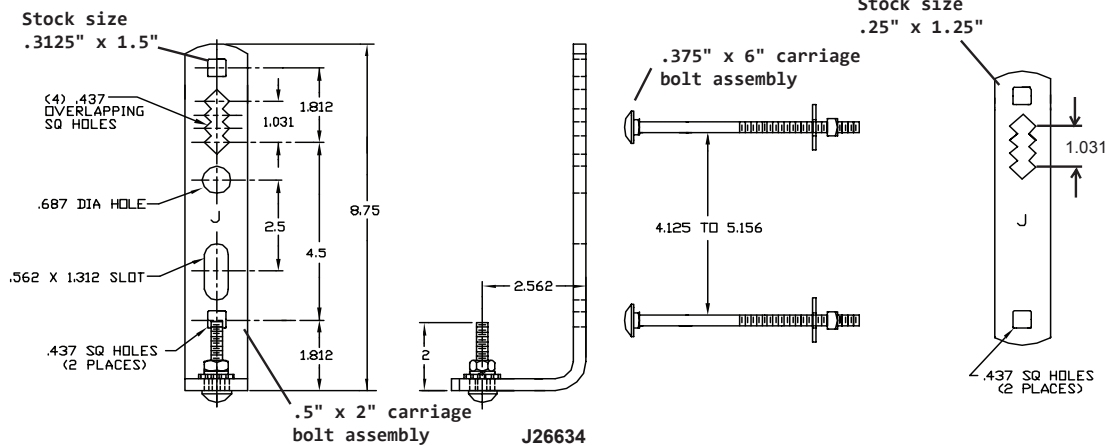
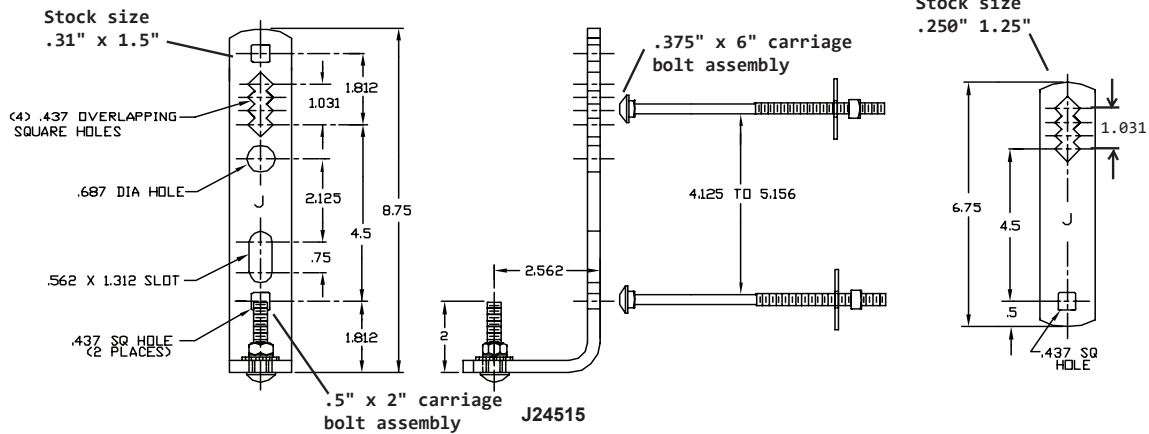
Apparatus Mounting Brackets

Features

- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

Steel hot dip galvanized





Brackets

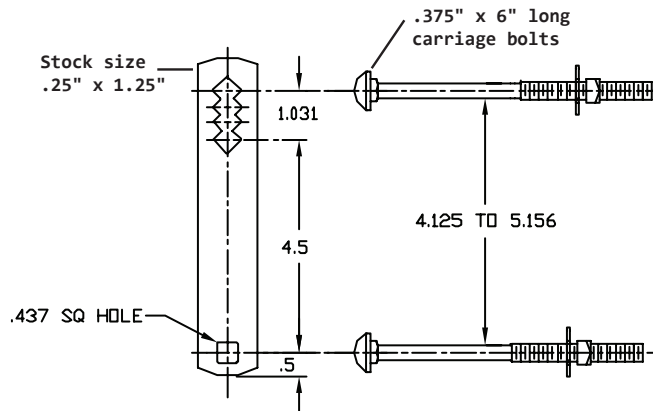
Apparatus Mounting Brackets

Features

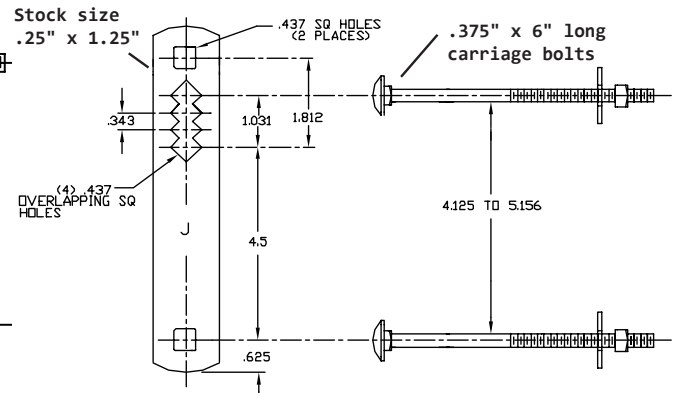
- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

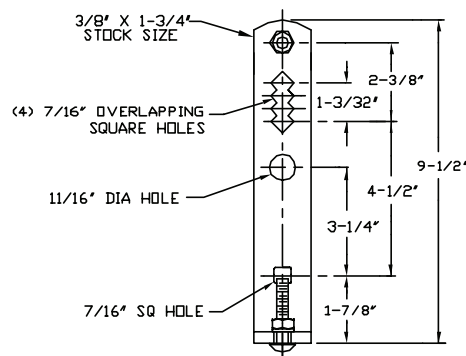
Steel hot dip galvanized



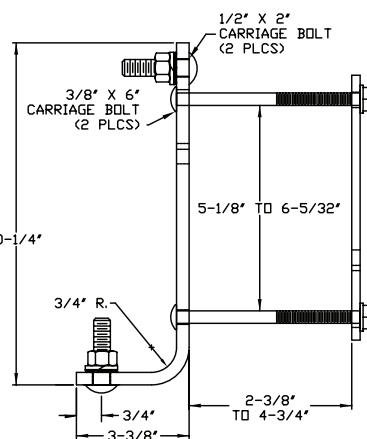
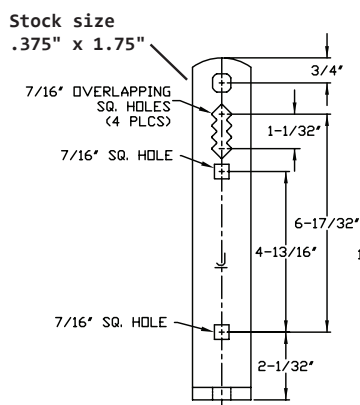
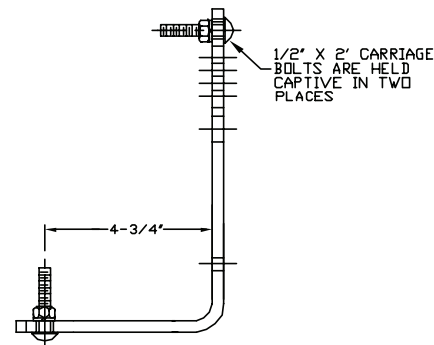
J24517



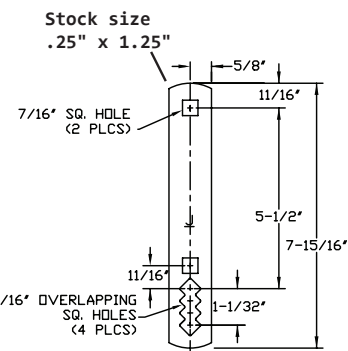
J26620C



J26482



D30509





Brackets

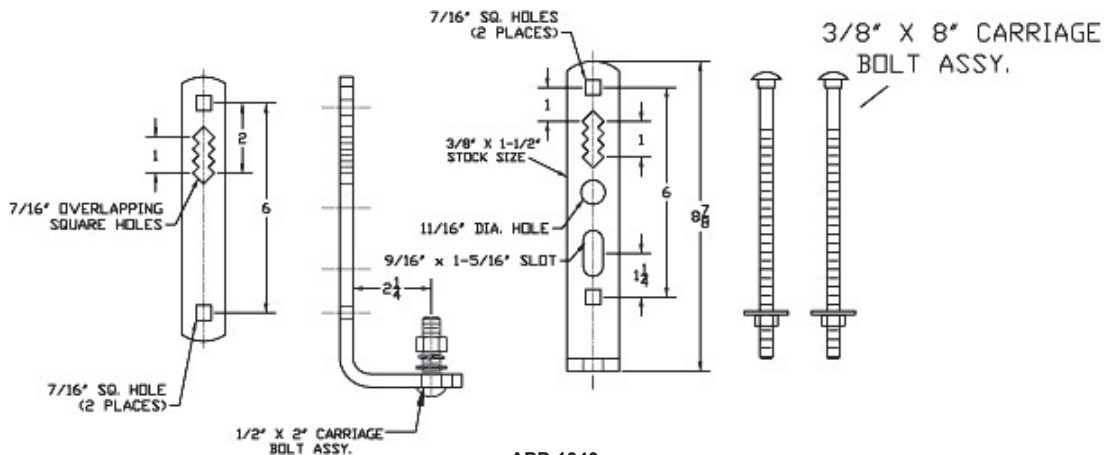
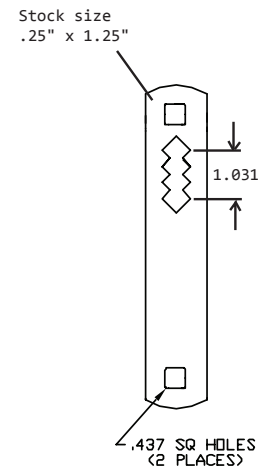
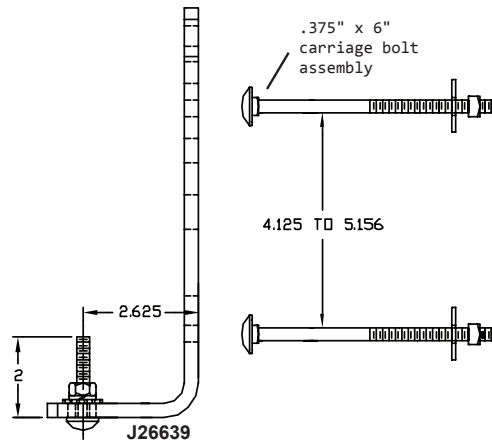
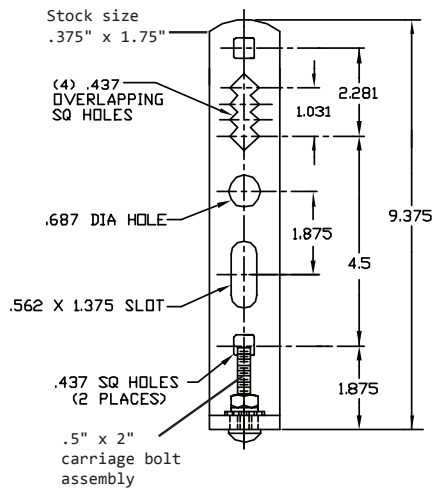
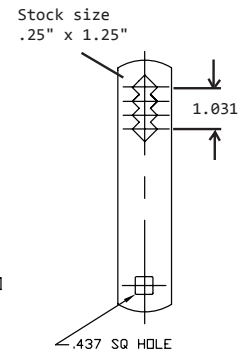
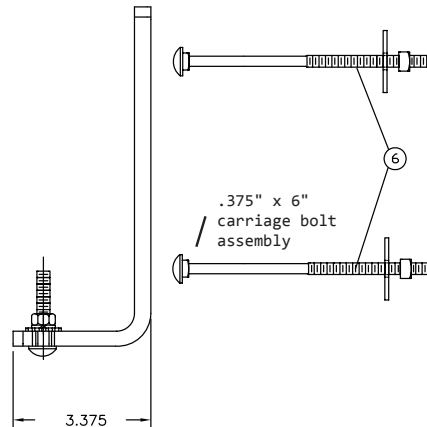
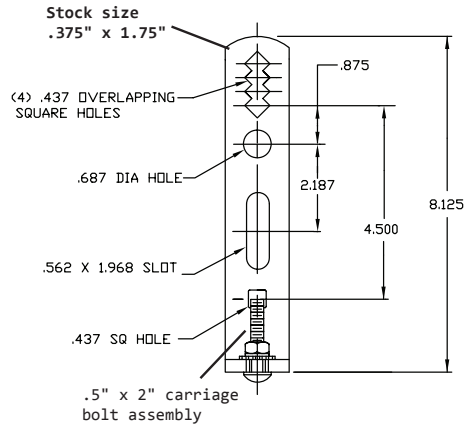
Apparatus Mounting Brackets

Features

- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

Steel hot dip galvanized





Brackets

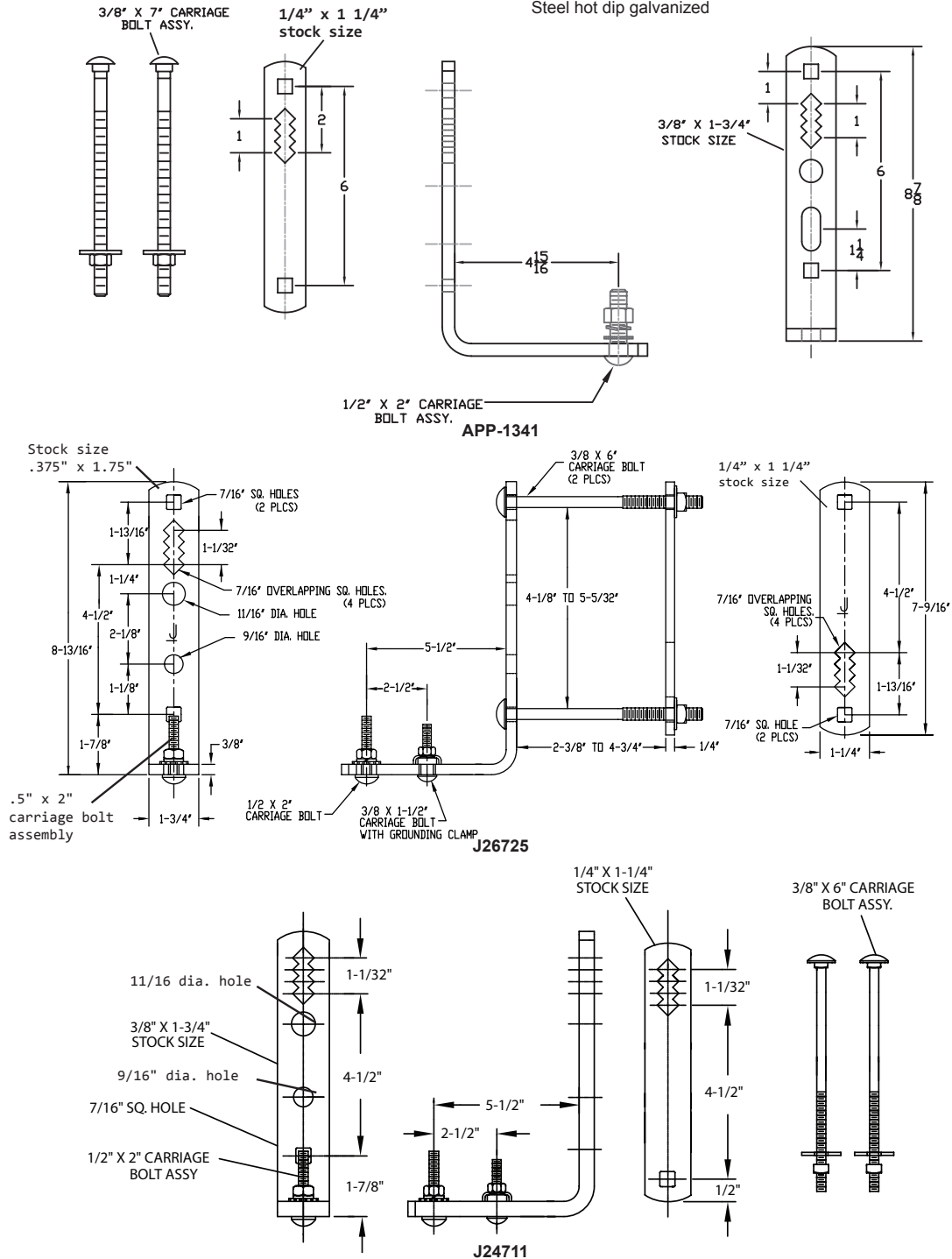
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Brackets

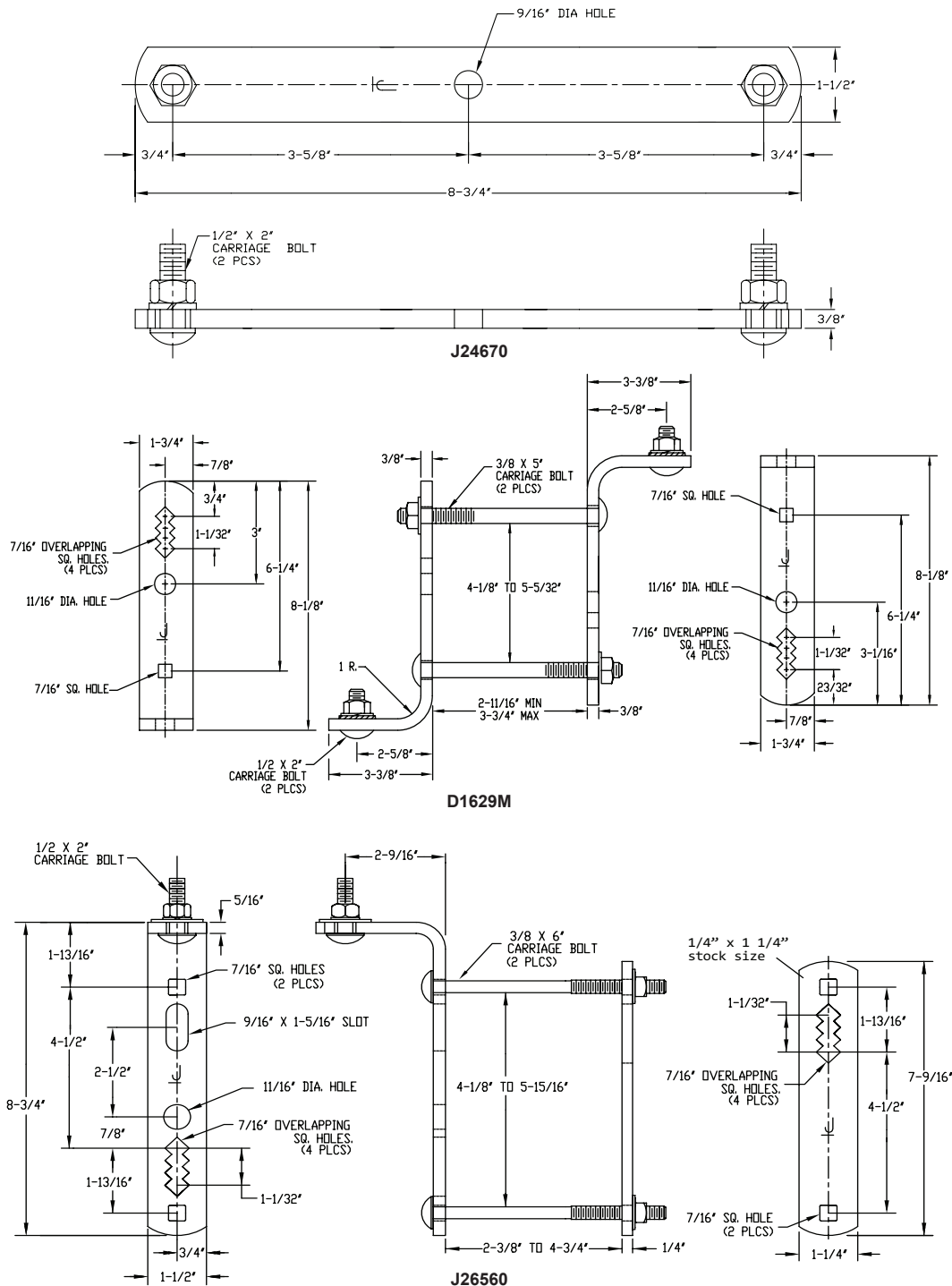
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Brackets

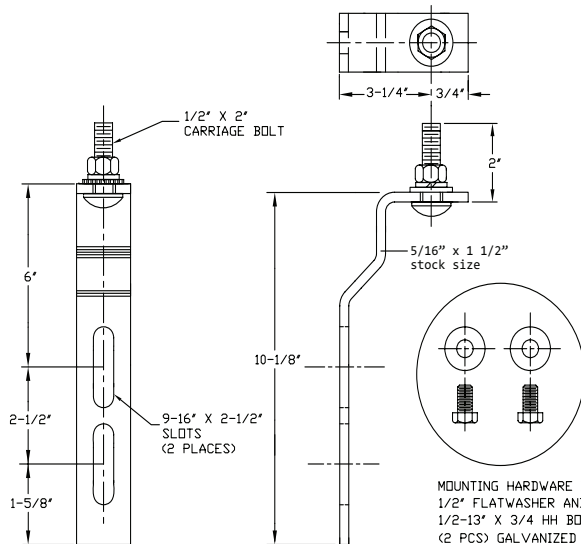
Apparatus Mounting Brackets

Features

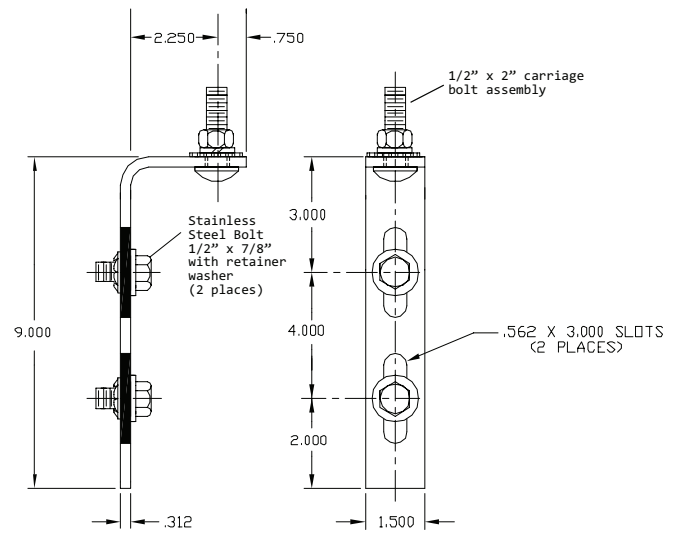
- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

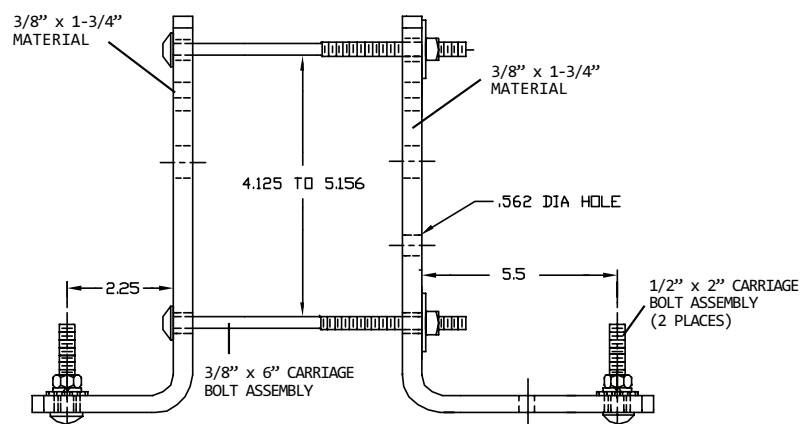
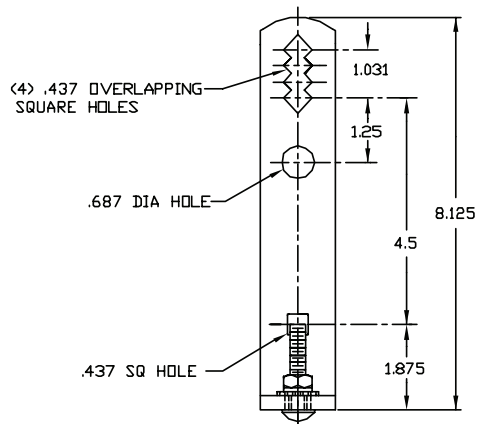
Steel hot dip galvanized



J26935



J26710



J26760



Brackets

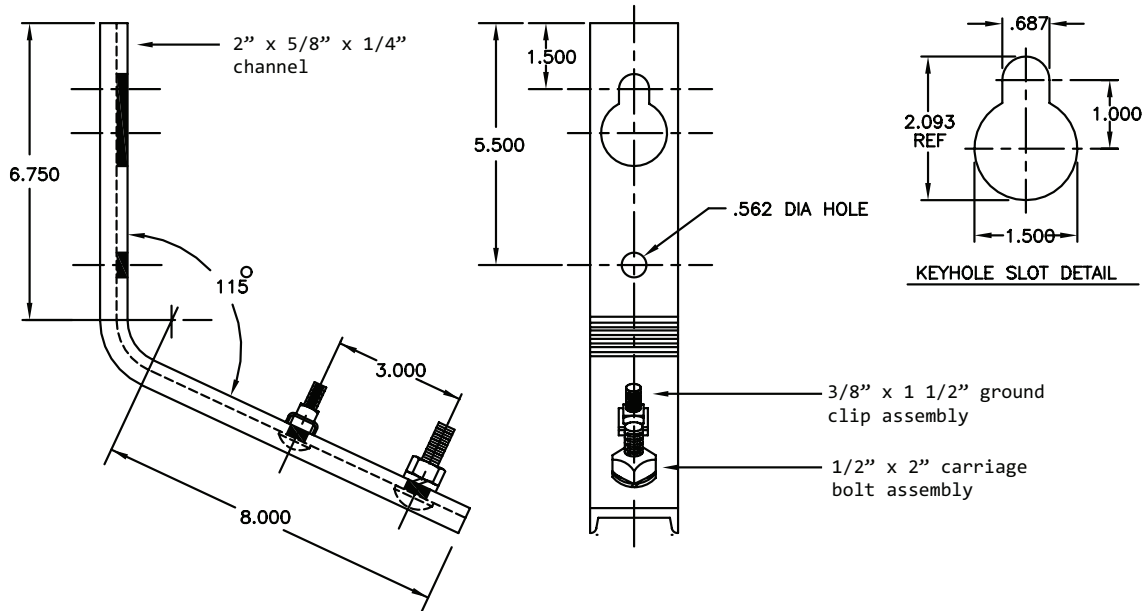
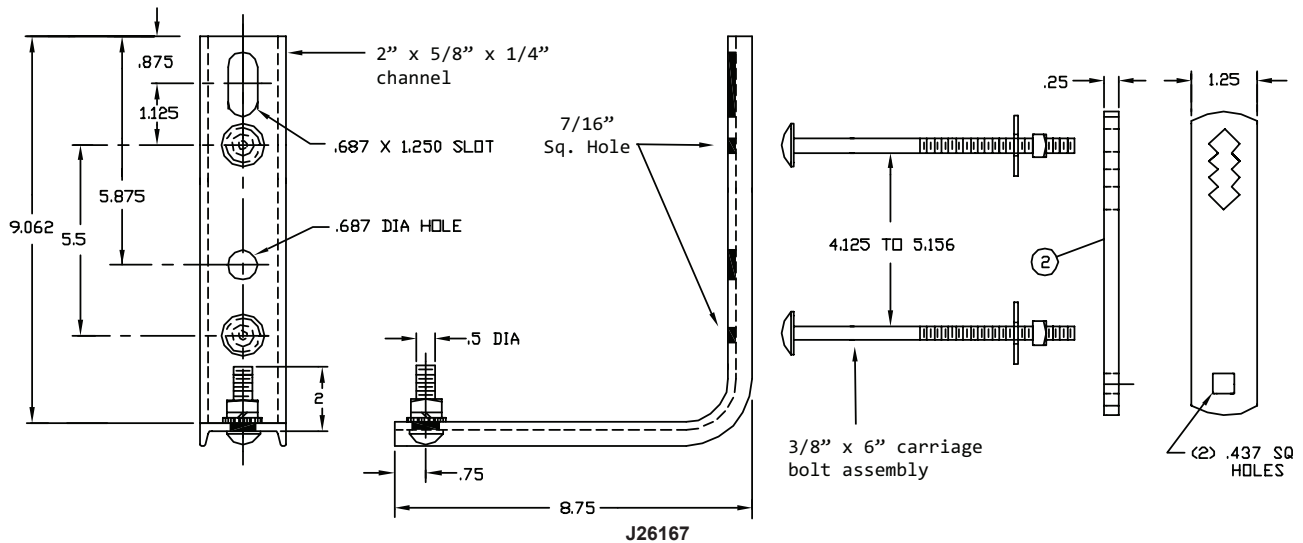
Apparatus Mounting Brackets

Features

- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

Steel hot dip galvanized



J24673



Brackets

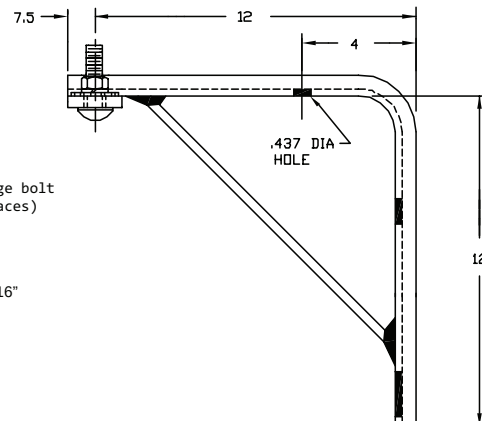
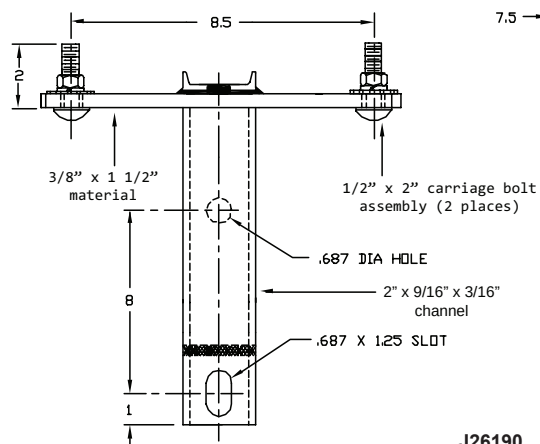
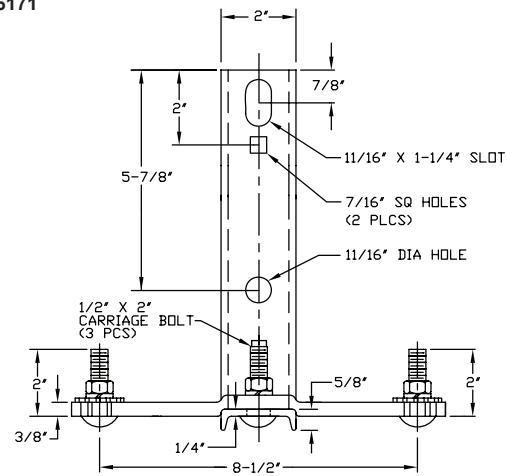
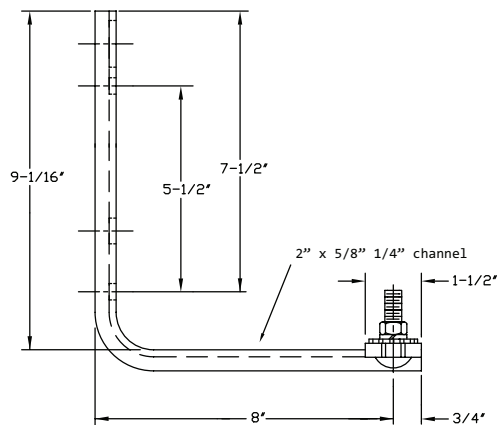
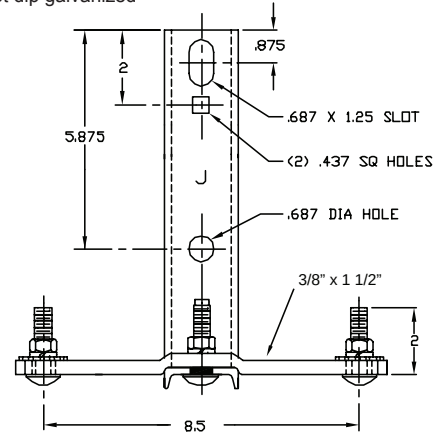
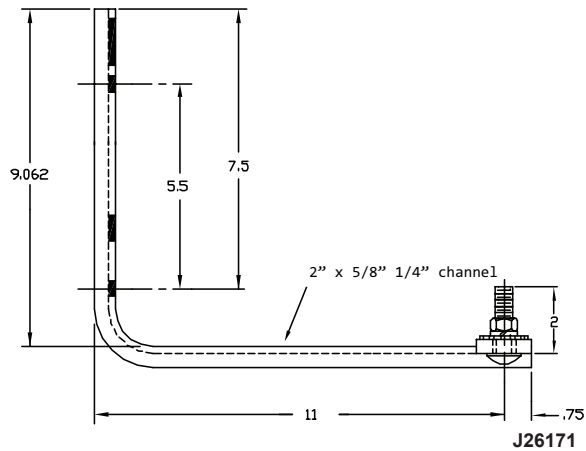
Apparatus Mounting Brackets

Features

- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

Material

Steel hot dip galvanized



J26190



Brackets

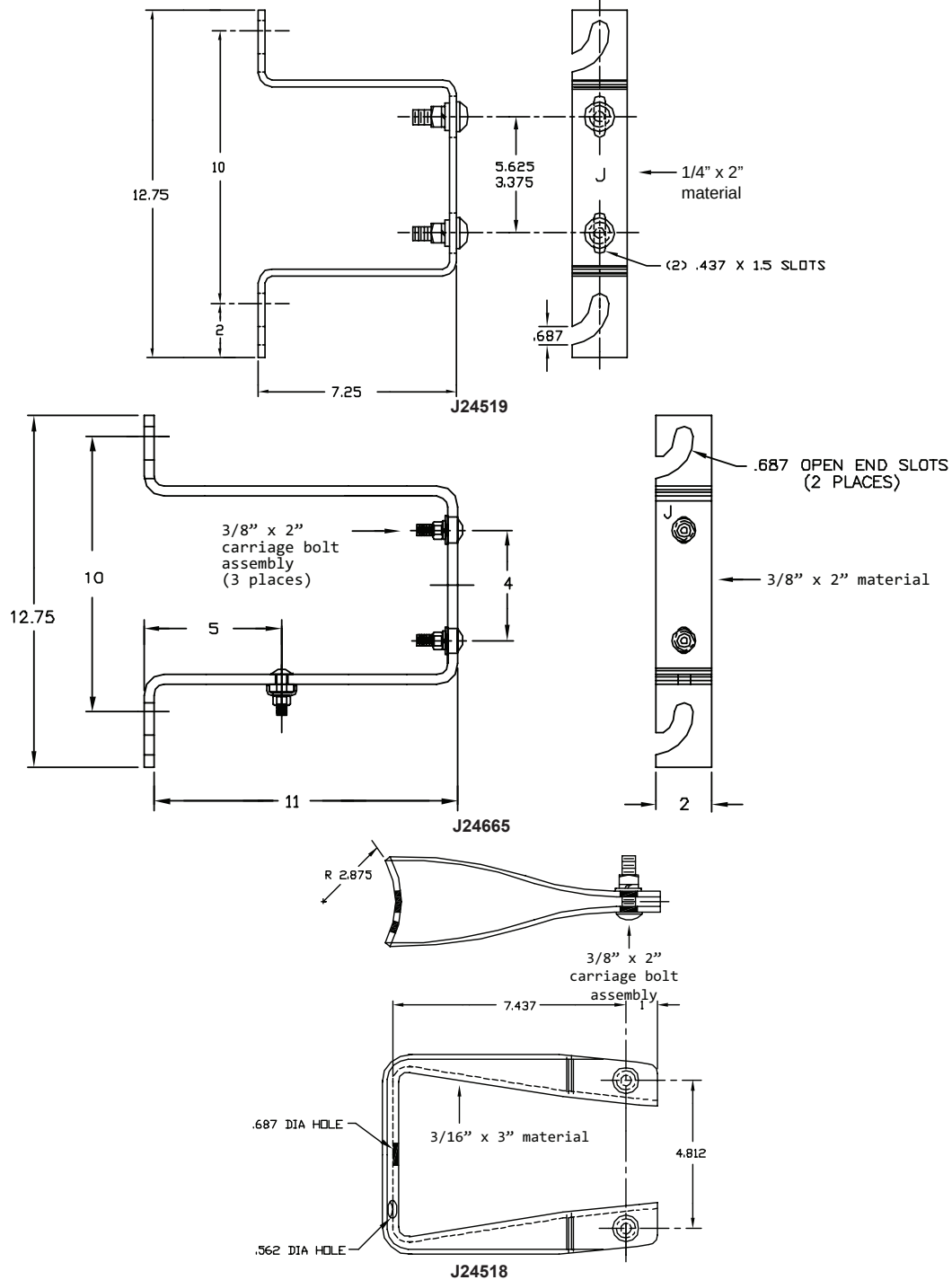
Apparatus Mounting Brackets

Features

- Engineered for strength and mounting a variety of electrical equipment including arresters, cutouts, combination units, and terminations

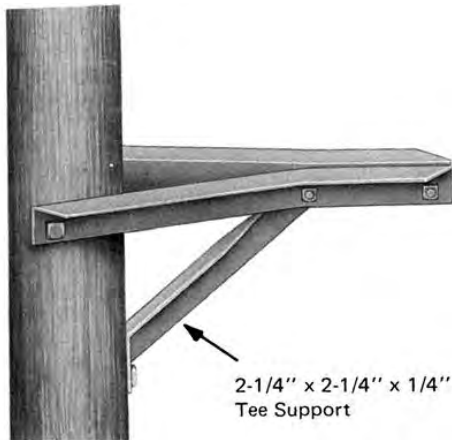
Material

Steel hot dip galvanized





Brackets



Cable Extension

The cable extension bracket supports a telephone cable at a distance from the pole.

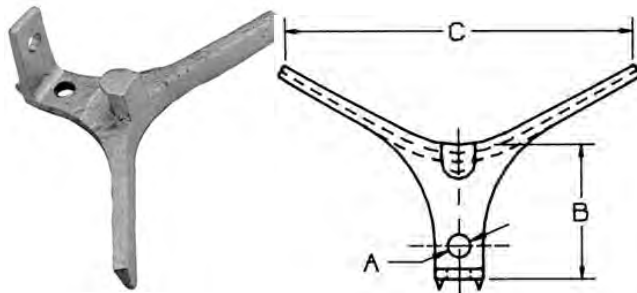
Features

- Messenger cable is held by a standard J1096 suspension clamp which is bolted against the underside of the two angles by a 5/8" machine bolt which is fitted between the legs of the two angles and can be adjusted for proper extension from the pole
- Mounts to pole with a 5/8" or 3/4" machine bolt at upper position and two 1/2" lag screw bolts at the lower
- All mounting bolts, lag screws and suspension clamps must be ordered separately

Material

Steel hot dip galvanized

Catalog Number	Angle Size	Extension from Center of Pole (in)	Weight /100 (lbs)
J7920	3 x 2 1/2 x 5/16	17 1/2 - 26	2900
J7921	3 1/2 x 2 1/2 x 5/16	26 1/2 - 44 1/2	6000



Conduit Mounting Standoff

Features

- Brackets will accommodate 1-3 conduits up to 6" diameter each
- Conduit is secured by banding to post on bracket
- Mounts to pole with 5/8" machine bolt

Material

Steel hot dip galvanized

Catalog Number	A	B	C	Weight /100 (lbs)
CRB396	11/16	4	10 1/2	270



Brackets

Insulator and Equipment

"VIB", "IAC" and "IACB" series insulator and equipment brackets provide flexibility for mounting a variety of equipment vertically onto the pole.

Features

- For mounting arresters, cutouts, line post insulators, insulator pins, cable terminations, and flood lights

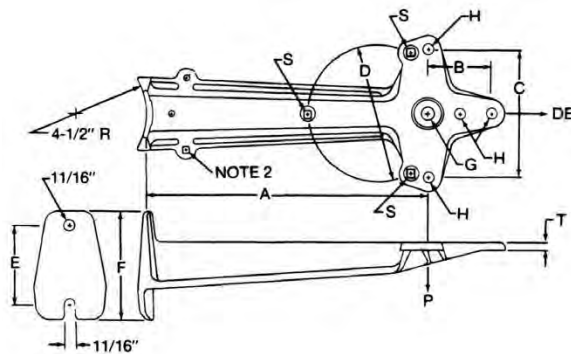
Material

VIB series:

Aluminum alloy

IAC and IACB series:

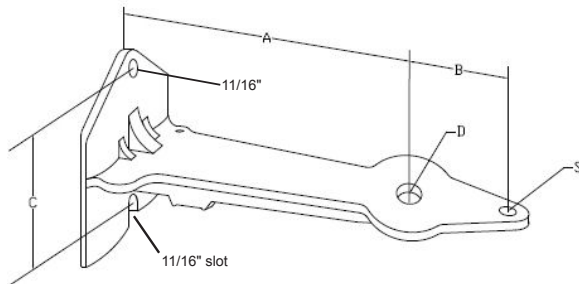
Ductile iron hot dip galvanized



Catalog Number	A	B	C	D	E	F	G	H	S	T	Ultimate Strength (P)	Ultimate Strength (DE)	Weight /100 (lbs)
VIB3-12	12	4	8	8 3/4	5	6 3/4	13/16	11/16	17/32	1/2	2500	10000	470
VIB3-18	18	4	8	8 3/4	5	6 3/4	13/16	11/16	17/32	1/2	2500	10000	580

Notes:

- 1) To specify two 1/2" captive bolts in outer two holes, add suffix "-B"
- 2) To specify grounding device, add suffix "-GC"



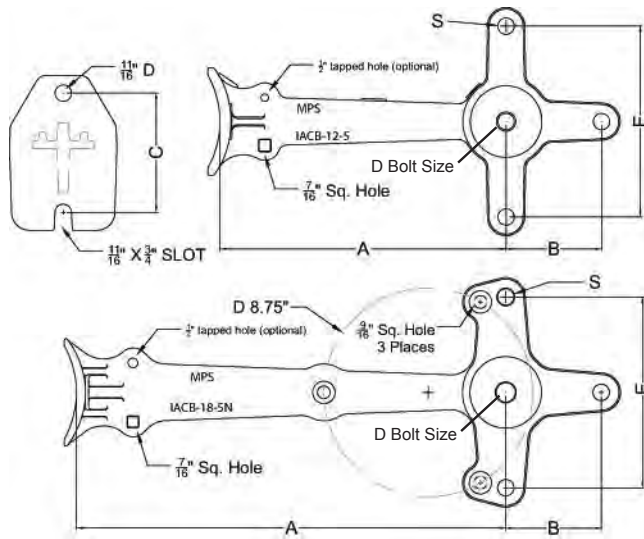
Catalog Number	A	B	C	D	S	Pole Mounting Bolts	Weight /100 (lbs)
IAC-7-5	7	2 5/8	5	13/16	11/16	5/8	450
IAC-12-5	12	3 5/16	5	13/16	11/16	5/8	1060
IAC-18-5	18	4	5	13/16	11/16	5/8	1330

Notes:

- For 1/2" captive bolt for cutout mounting, add suffix "-B"



Brackets



Insulator and Equipment

"VIB", "IAC" and "IACB" series insulator and equipment brackets provide flexibility for mounting a variety of equipment vertically onto the pole.

Features

- For mounting arresters, cutouts, line post insulators, insulator pins, cable terminations, and flood lights

Material

VIB series:

Aluminum alloy

IAC and IACB series:

Ductile iron hot dip galvanized



Catalog Number	A	B	C	D	E	S	Weight /100 (lbs)
IACB-12-5	12	4	5	5/8 - 3/4	8	11/16	800
IACB-18-5N	18	4	5	5/8 - 3/4	8	11/16	1100

Notes:

For 1/2" captive bolt for cutout mounting, add suffix "-B"



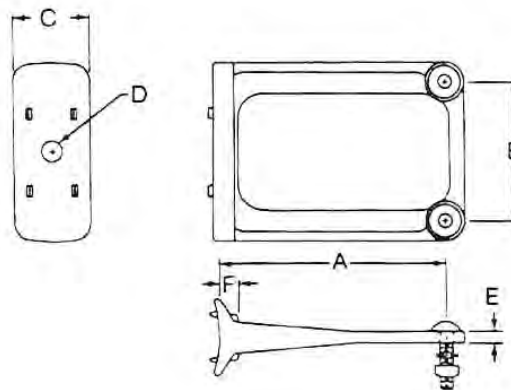
Insulator and Equipment

Features

- Bracket is easily mounted on utility pole with single 5/8" diameter through bolt
- Cleats on base of bracket anchor it securely to pole
- Supplied with (2) 3/8" x 1' 3/4" carriage bolts, hex nuts and lock washers

Material

Aluminum alloy



Catalog Number	A	B	C	D	E	F	Weight /100 (lbs)
CAB-8	7 1/2	4 1/2	2 1/2	11/16	11/32	1/2	110



Brackets

Insulator

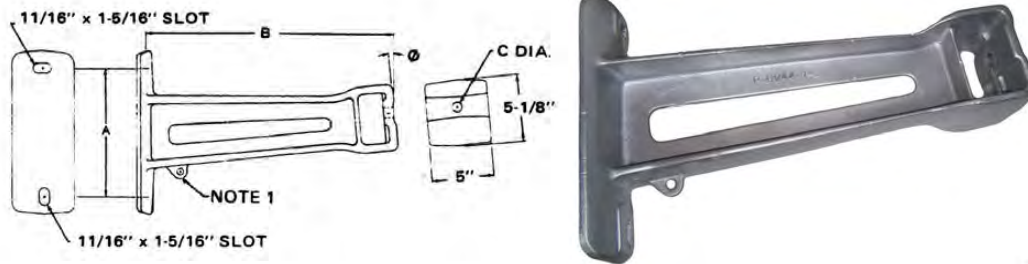
"HBB", "HB" and "HIB" insulator brackets provide flexibility for mounting a variety of equipment horizontally onto the pole.

Features

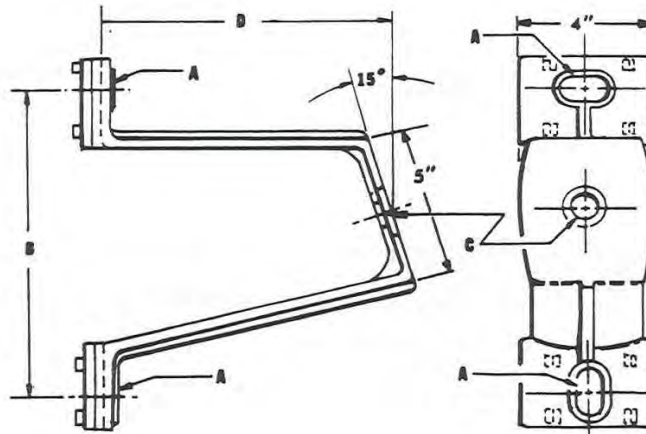
- For mounting line post insulators and insulator pins

Material

HBB series: Ductile iron hot dip galvanized
HB and HIB series: Ductile iron hot dip galvanized



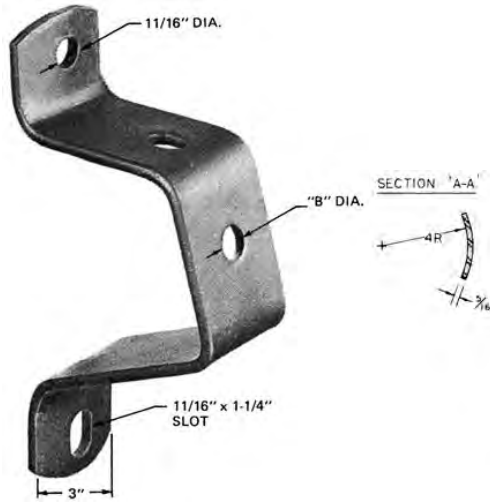
Catalog Number	kV Rating	A	B	C	Angle	In-lbs Rating	Weight /100 (lbs)
HBB-12-32	69	10	32	13/16	5	50120	1950



Catalog Number	kV Rating	A	B	C	D	E	Material	Weight /100 (lbs)
HIB-109-5	35	5/8" Mounting Bolt	10	5/8 - 3/4" Insulator Stud Bolt	9 Pole Clearance	15° Base Angle	Ductile Iron	861
HIB-1020-6A	88	7/8" Mounting Bolt	10 or 12	3/4 - 7/8" Insulator Stud Bolt	20 Pole Clearance	15° Base Angle	Ductile Iron	3300



Brackets

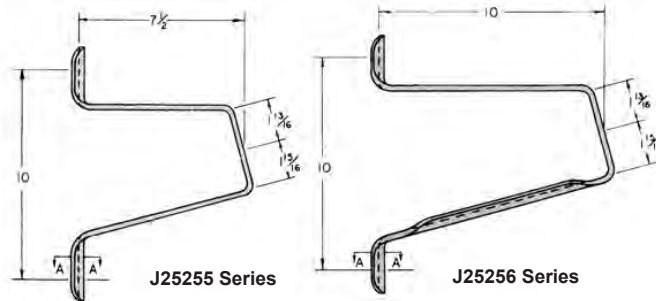


Insulator

Post Insulator brackets are used to mount post type insulators from 15kV through 34.5kV directly to the side of the pole, thus eliminating a crossarm assembly.

Material

Steel hot dip galvanized - 5/16" x 3" steel



Catalog Number	B	Weight /100 (lbs)
J25255.1	11/16	600
J25256.1	11/16	800
J25256.2	13/16	800

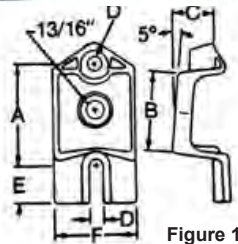


Figure 1

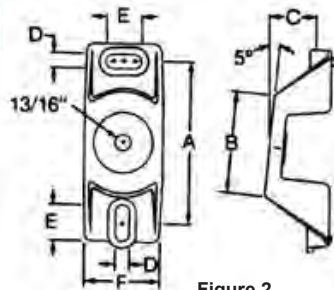


Figure 2

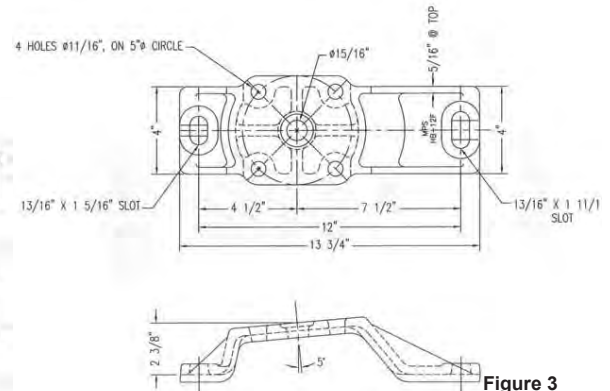
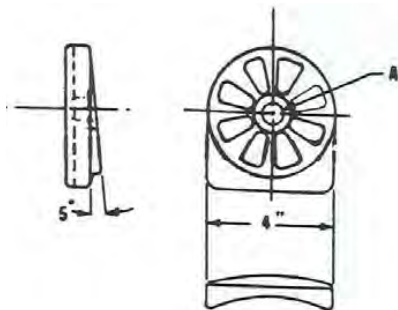


Figure 3

Catalog Number	Fig	kV Rating	A	B	C	D	E	F	In-lbs Rating	Material	Weight /100 (lbs)
HB-6	1	35	5	3 7/8	1 7/8	11/16	1 11/16	4	30000	Aluminum	170
HB-8	2	45	8	5	2 1/4	23/32	1 7/8	3 13/16	40000	Aluminum	260
HB-12F	3	88	12	6 1/4	2 3/8	13/16	1 5/16	5	62000	Ductile Iron	1142
HIB-62-5	1	35	5	3 7/8	2	5/8	1 11/16	4	36750	Ductile Iron	300
HIB-82-5	2	66	8	5	2	5/8	1 7/8	4	50120	Ductile Iron	600



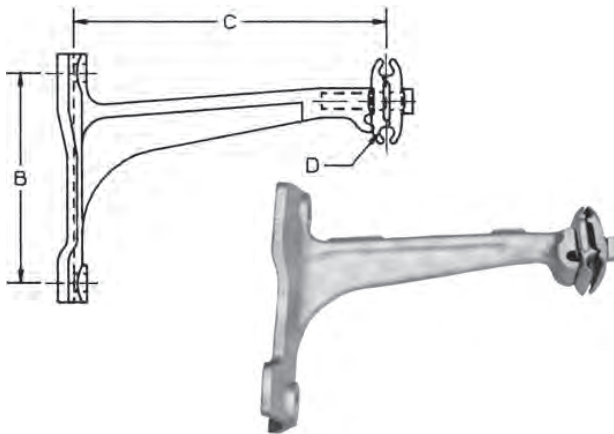
Insulator

For use as a line post insulator adapter

Catalog Number	A	Material	Weight /100 (lbs)
IB-5	11/16	Aluminum	60
UDT-4	13/16	Ductile Iron	150



Brackets



Messenger Extension

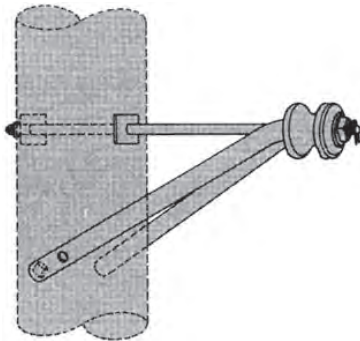
Features

- Provides a 12" clearance from the pole and is fastened with two 5/8" mounting bolts
- Clamp plates are reversible to accept a wide range of messenger brackets

Material

Ductile iron hot dip galvanized

Catalog Number	B	C	D	Weight /100 (lbs)
SCB-12-5	8	12	1/4 - 5/8	1129



Neutral Extension

The neutral extension bracket is designed for new construction and accommodates pole diameters of 6-11".

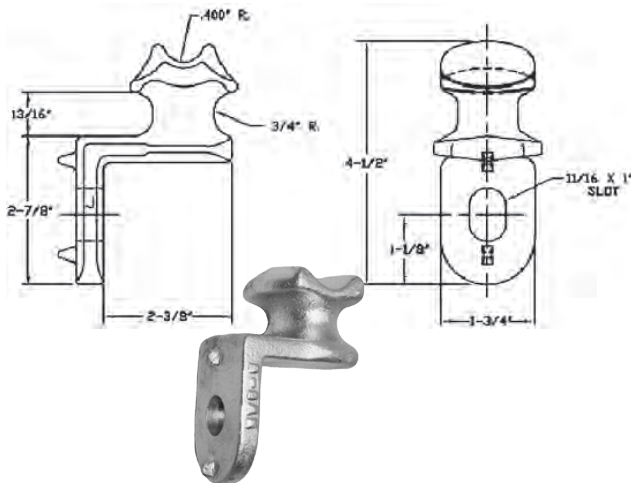
Features

- Pole end consists of 5/8" bolt, welded washer, square nut, and lock nut
- Spool end consists of flat steel brace, two round washers, square nut and self-locking cotter key
- Provides 11 3/4" extension from pole
- Spool insulators and lag screws ordered separately

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J2352	800



Neutral Wire

The NWB5 is a non-insulating malleable iron bracket for pole mounting of neutral wire.

Features

- Accommodates wire up to and including .666" diameter (336 .4 AAC)
- Includes spikes in mounting surface that embed into wood to resist movement
- Accommodates 5/8" mounting bolt

Material

Ductile Iron hot dip galvanized

Catalog Number	Weight /100 (lbs)
NWB5	155



Brackets

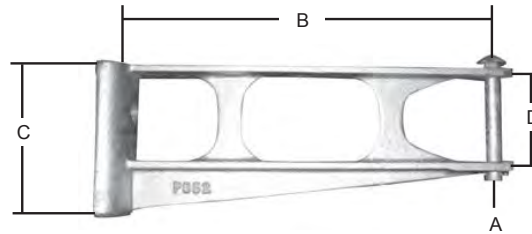


Neutral Extension

The pole mounting base of this neutral wire bracket is furnished with integral spikes to resist movement and allow mounting with a single 5/8" machine bolt.

Material

Ductile hot dip galvanized



Catalog Number	Ultimate Vertical Strength (lbs)	Ultimate Straight Deadend Strength (lbs)	A	B	C	D	Weight /100 (lbs)
PA362	3,500	10,000	11/16	14 1/8	5 1/2	3 1/4	796



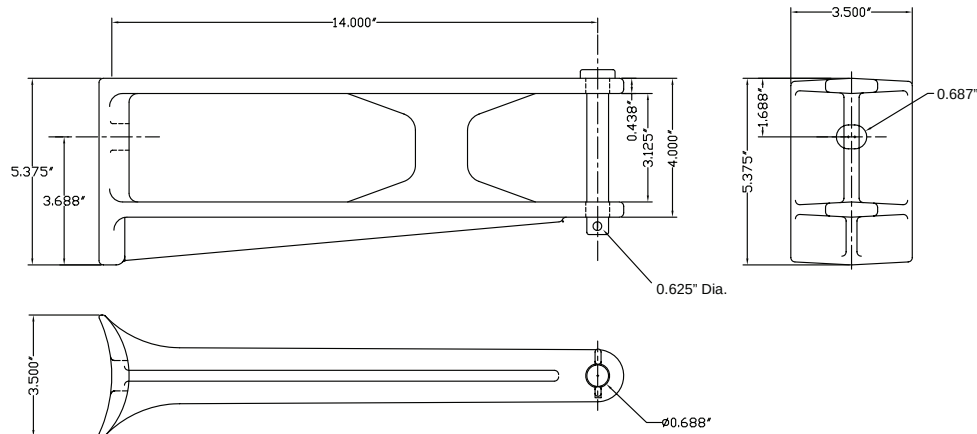
Neutral Extension

The pole mounting base of this neutral wire bracket is furnished with integral spikes to resist movement and allow mounting with a single 5/8" machine bolt.

Material

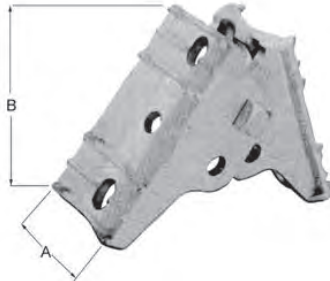
Aluminum Alloy Bracket
Galvanized Steel Bolt
Stainless Steel Cotter Key

Catalog Number	Ultimate Vertical Strength (lbs)	Ultimate Straight Deadend Strength (lbs)	Weight /100 (lbs)
ANCB-14	3,500	10,000	367





Brackets



Pole Brace Connector Bracket

Pole brace connector brackets will permit an attachment angle from 0° to 90° with the pole.

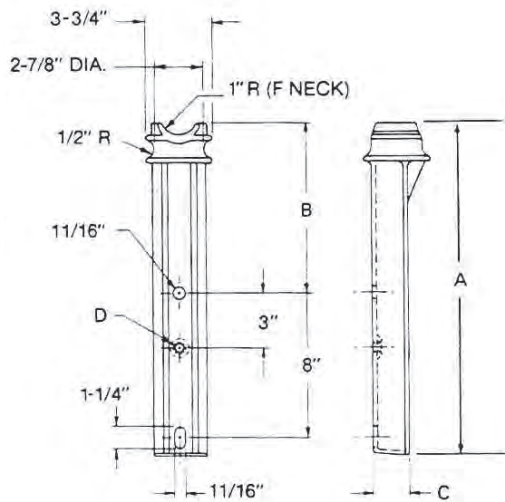
Features

- The pole contacting surface is curved with integral teeth for maximum stability and distribution of the load
- USA- series has one center pole mounting hole in each bracket section
- PAX- series has three mounting holes in each bracket section for flexibility of normal or heavy duty bracing applications
- PAX- series center pole mounting hole is used for normal loads, the two outer holes are used for heavy loads
- Distance from center hole to slot is 3"

Material

Ductile iron hot dip galvanized

Catalog Number	Pole Range	A	B	Hinge Bolt Dia.	Mounting Bolt Dia.	Weight /100 (lbs)
USA-5634-5	4.5 - 7"	3 1/2	5 3/4	5/8	5/8	575
USA-5634-6	4.5 - 7"	3 1/2	5 3/4	5/8	3/4	575
PAX138	6 - 11"	4	8	3/4	3/4	1300



Pole Top

Material

Ductile iron hot dip galvanized

Catalog Number	A	B	C	D	Weight /100 (lbs)
PTB-18	18 1/2	8 13/16	1 1/2	1/2 tapped	340
PTB-24	24 9/16	14 7/8	1 3/4	11/16	550

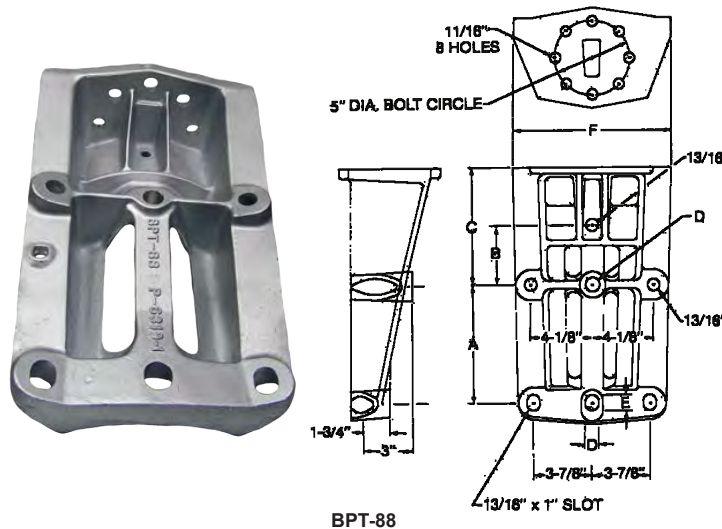
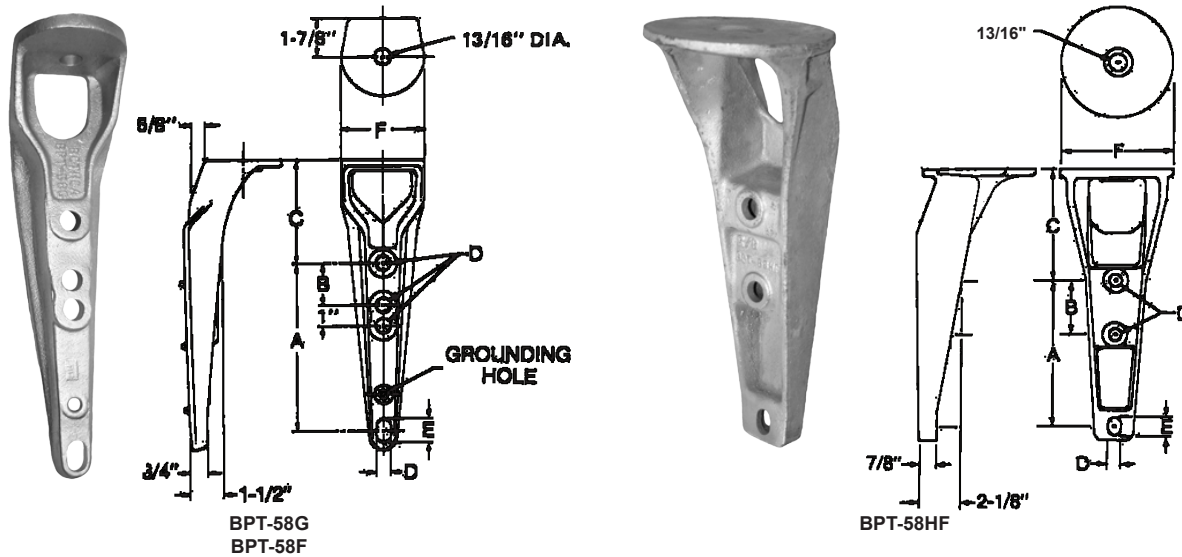
Brackets

Pole Top

Material

BTP-88: Aluminum alloy

BPT-58F / BTP-58G / BPT-58HF: Ductile iron hot dip galvanized



Catalog Number	kV Rating	A	B	C	D	E	F	In-lbs Rating	Material	Weight /100 (lbs)
BPT-58F	35	8	2	5	11/16	1 1/8	4	29400	Ductile iron hot dip galv	583
BPT-58G	35	8	2	6	11/16	1 1/8	4	36750	Ductile iron hot dip galv	680
BPT-58HF	69/88	8	3	6	11/16	1	6	54600	Ductile iron hot dip galv	1150
BPT-88	115	8	4	8	15/16	1 1/16	11	134400	Aluminum	1700



Brackets

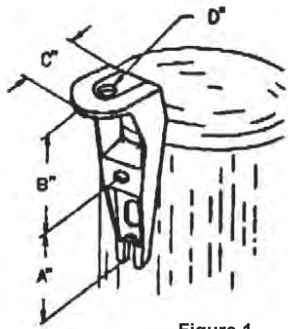


Figure 1

Pole Top

Pole top brackets are used to mount line post insulators and provide increased distance in separation of the middle phase.

Material

Ductile iron hot dip galvanized

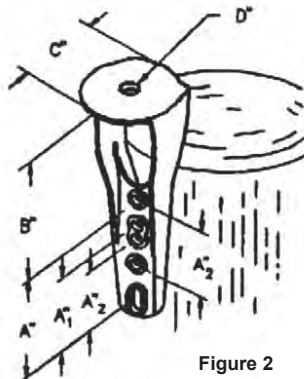


Figure 2

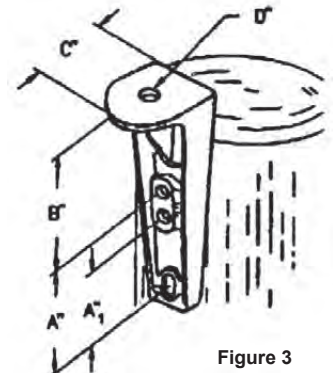
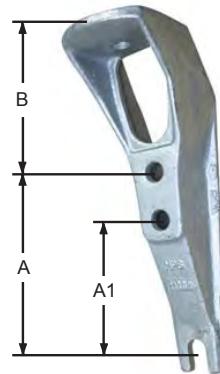


Figure 3

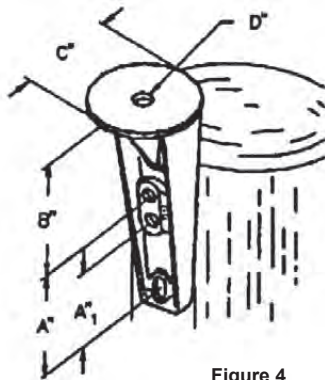
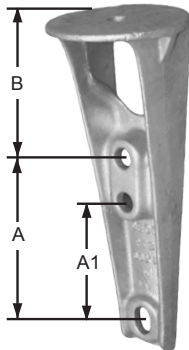
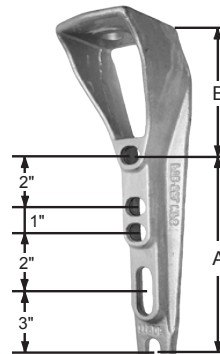


Figure 4



PTB-5L (PTB55-8 no center holes)

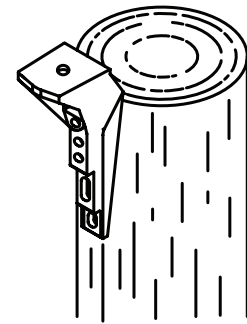
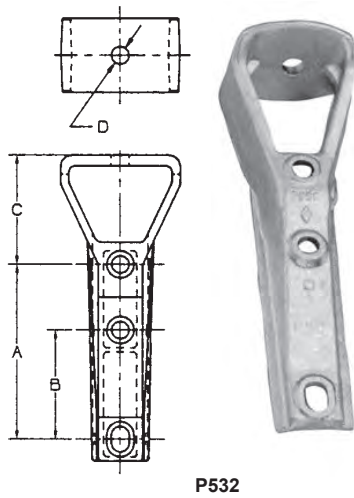


Figure 5

Catalog Number	Fig	Max Voltage Class	A	B	C	D	Mounting Bolt Diameter	A1	A2	Weight /100 (lbs)
PTB-55L	5	35	8	6	3 3/4	5/8 - 3/4 Stud Bolt	5/8			530
PTB-55-8	5	35	8	6	3 3/4	5/8 - 3/4 Stud Bolt	5/8			525
PTB-55W	1	35	5	5	3 5/8	5/8 - 3/4 Stud Bolt	5/8			450
PTB-66	2	55	8	6 3/8	3 3/4	5/8 - 3/4 Stud Bolt	5/8	6	5	860
PTB-66H	3	69	8	6	4 1/2	5/8 - 3/4 Stud Bolt	5/8 - 3/4	6		1100
PTB-66XH	3	69	8	6	6	5/8 - 3/4 Stud Bolt	5/8 - 3/4	6		1200
PTB-66XHA	4	88	8	6	6	3/4 - 7/8 Stud Bolt	5/8 - 3/4	6		1200



Brackets



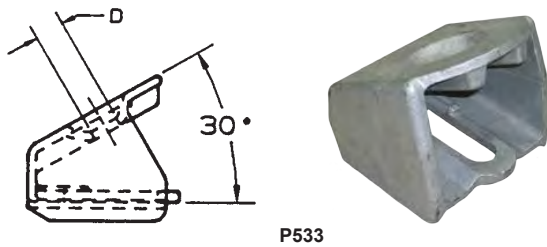
Pole Top

Pole top brackets are used to mount line post insulators and provide increased distance in separation of the middle phase.

Material

Ductile iron hot dip galvanized

Catalog Number	kV Rating	A	B	C	D	Mounting Bolt Diameter	Weight /100 (lbs)
P532	69	8	5	5	5/8 - 3/4	5/8 - 3/4	700



Pole Top

The P533 bracket provides a sturdy base with a 30° angle top surface for mounting 5/8" or 3/4" short shank insulator pins or short line post studs. The bottom of the bracket is designed to sit on crossarms or pole top insulator brackets up to 3 3/4" surface width and is fastened with a 3/4" diameter bolt.

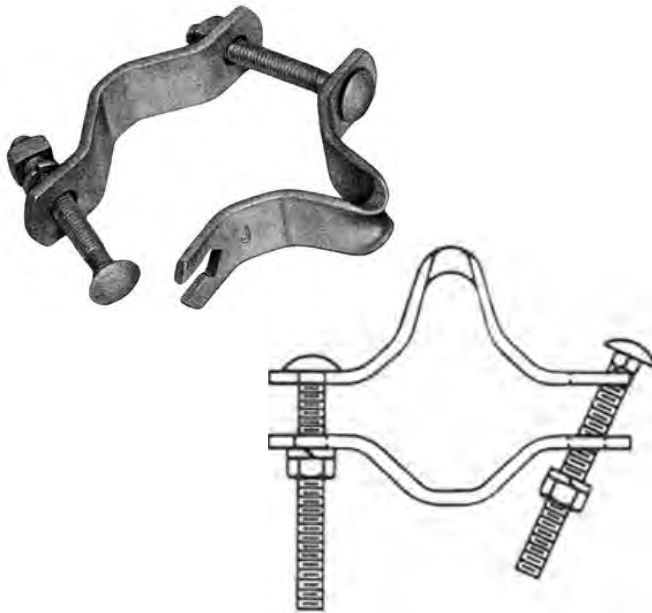
Material

Ductile iron hot dip galvanized

Catalog Number	D	Mounting Bolt Diameter	Weight /100 (lbs)
P533	13/16	3/4	500



Brackets



Service Mast

Service Mast brackets are used with service wedge clamps to attach the neutral wire of a drop cable to the service mast. The bracket is attached to pipe service masts to provide a secure attachment point for service drop wires. The center of the front strap is formed in a generous radius to prevent damaging the bail of service wedge clamps.

The brackets incorporate a specially designed slot on one end of the front strap to permit installation of the bracket without removing the bolt. The special slot feature captures the carriage bolt shoulder to prevent it from turning or slipping out after installation.

Material

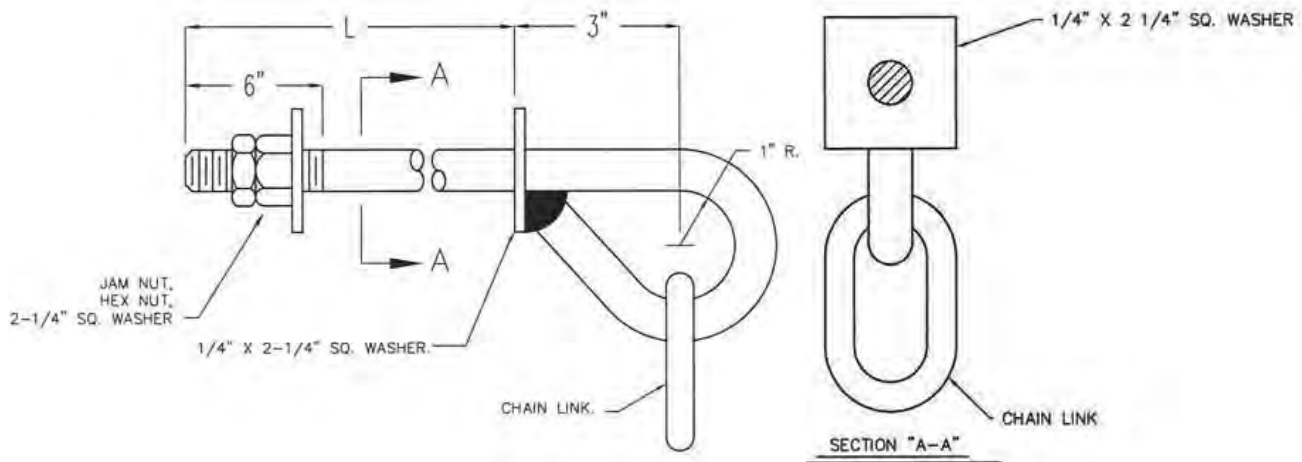
Steel hot dip galvanized

Catalog Number	Pipe Diameter Range (in)	Weight /100 (lbs)
J0590	1 1/4 - 3	105
SMB40	2 - 4	150

Shield Wire Support

Material

Steel hot dip galvanized



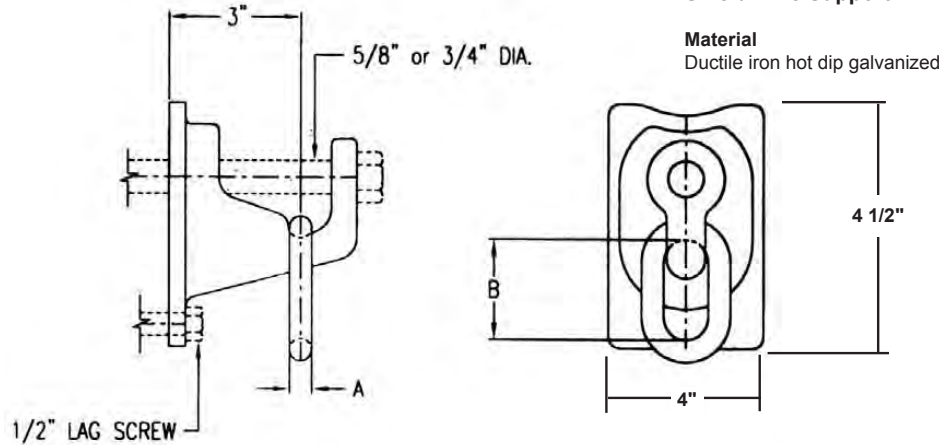
Catalog Number	A	L	Weight/100 (lbs)
SF-SWS-12-5	5/8	12	300
SF-SWS-12-6	3/4	12	500
SF-SWS-14-5	5/8	14	500
SF-SWS-14-6	3/4	14	500

Notes:
 "-5" suffix has 1/2" diameter link
 "-6" suffix has 5/8" diameter link

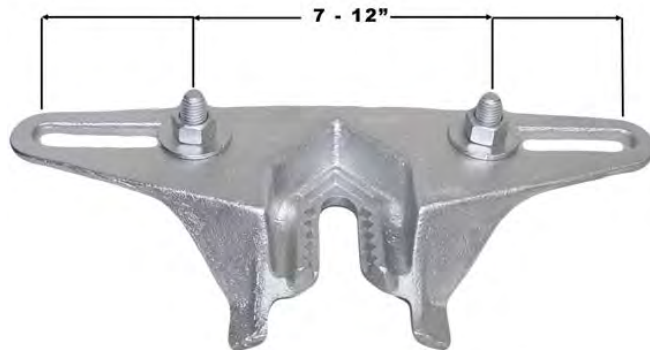


Brackets

Shield Wire Support



Catalog Number	A	B	Minimum Ultimate Strength	Weight (lbs)
SWBR-6-4-L	5/8	3 1/4	20000	4



Transformer Mounts

MPS transformer mounting brackets are used in heavy duty applications for mounting transformers 167 - 500kVA.

Features

- Locking slot for a 3/4" diameter pole mounting bolt
- Recessed notched slot for locking through bolt and adjusting vertical spacing
- Can be installed on the transformer prior to the installation of assembly on pole
- Furnished with (2) 5/8" diameter bolts, nuts and washers for attachment to transformer
- Accommodates maximum 4000 lbs transformer weight

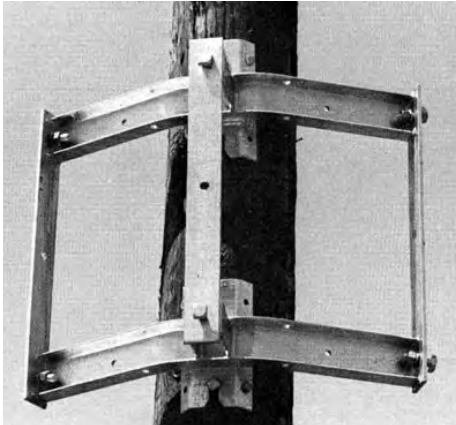
Material

Ductile iron hot dip galvanized

Catalog Number	Mounting Bolts		Distance from Pole to Transformer	Lug Spacing	Weight /100 (lbs)
	Transformer	Pole			
TB-4	5/8	3/4	2 1/2	7 - 14"	900



Brackets



Transformer Mounts

These transformer mounting brackets can be used to mount three transformers on the pole ranging from 3 kVA to 50kVA with the J6865 bracket or 75 kVA to 333 kVA with the J6866 bracket.

Features

- One-piece design makes installation easier by making them lighter
- Can be assembled with transformer on ground then installed on pole as one unit

J6865 Features

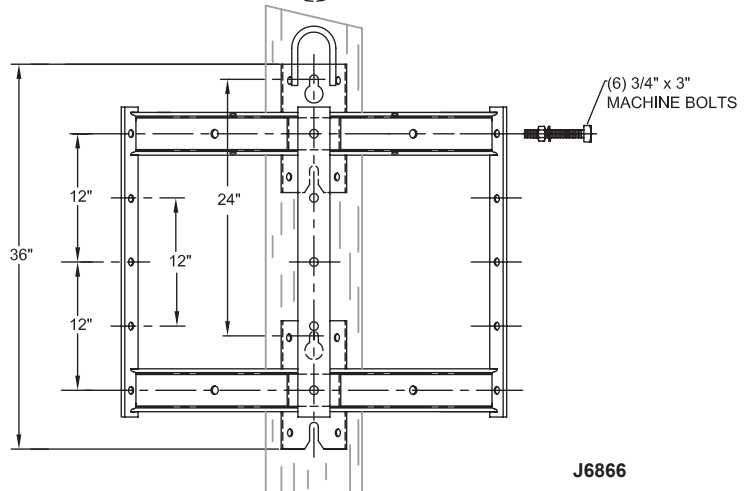
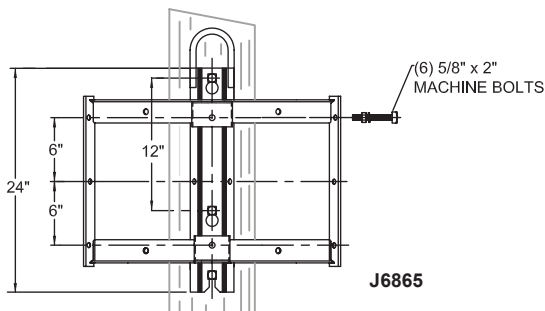
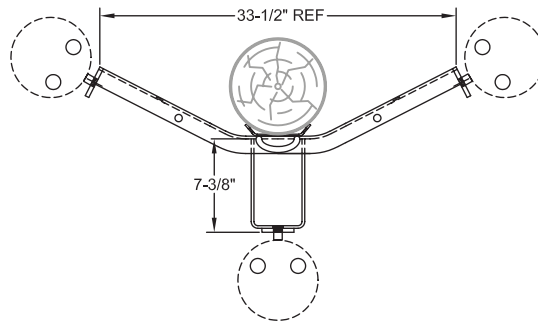
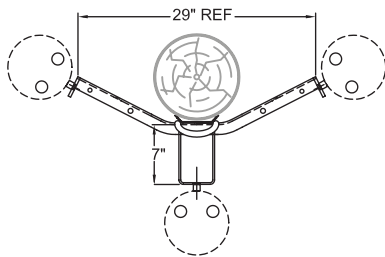
- 12" lug centers for mounting 3 transformers
- (6) 5/8 x 2" machine bolts included for bolting transformers to rack
- Secured to pole with (2) 3/4" machine bolts and (2) 1/2" lag screws for stability
- Holes are provided for a groundwire lug
- Strength capacity of 2000 per position

J6866 Features

- 24" mounting hole spacing
- Each position is designed to accommodate ANSI type "B" lug spacing
- (6) 3/4 x 3" machine bolts included for bolting transformers to rack
- Secured to pole with (2) 3/4" machine bolts and (2) 1/2" lag screws for stability
- Holes are provided for a groundwire lug
- Strength capacity of 5000 per position

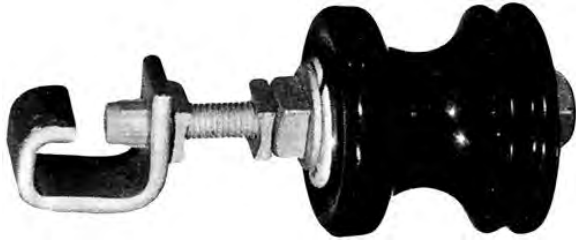
Material

Steel hot dip galvanized



Catalog Number	Weight Ea (lbs)
J6865	38
J6866	78

Brackets



Transformer Trainer

Transformer Trainer brackets are clamped to the bottom edge of a transformer tank to provide an insulated support for secondary leads.

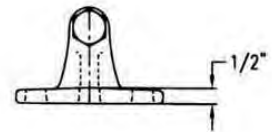
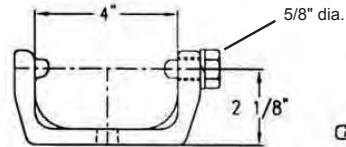
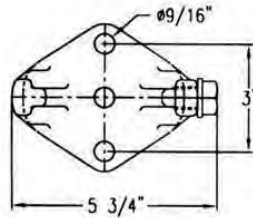
Features

- Polythylene cap at bolt end protects outside of transformer from getting scratched
- Each bracket ships complete with insulator

Material

Hardware:	Steel hot dip galvanized
Insulator:	Porcelain

Catalog Number	Machine Bolt Size (in)	Insulator Catalog Number	Weight /100 (lbs)
J6765	1/2 x 6	J101	220
J6765A	1/2 x 4 1/2	J100	130



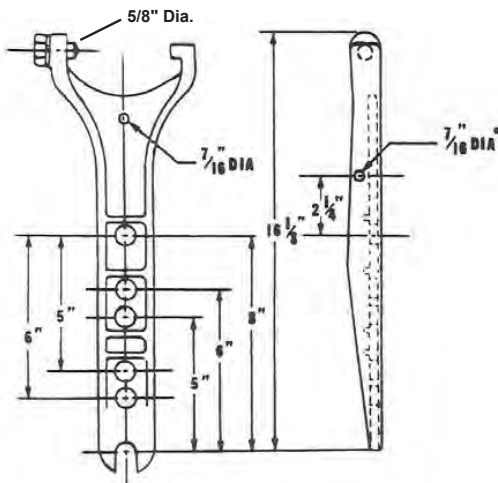
Trunnion

Trunnion brackets are generally used on top of transmission towers and pole tops for supporting clamps (or equivalents) holding overhead ground wires.

Material

Bracket: Ductile iron hot dip galvanized
Trunnion Bolt: Steel hot dip galvanized

Catalog Number	Ultimate Longitudinal Strength (lbs)	Weight /100 (lbs)
TMB-1	12500	240



Trunnion

Material

Ductile iron hot dip galvanized

Catalog Number	Mounting Bolts	Mounting Bolt Spacing	Weight /100 (lbs)
BTA-55	5/8"	5, 6, or 8"	500

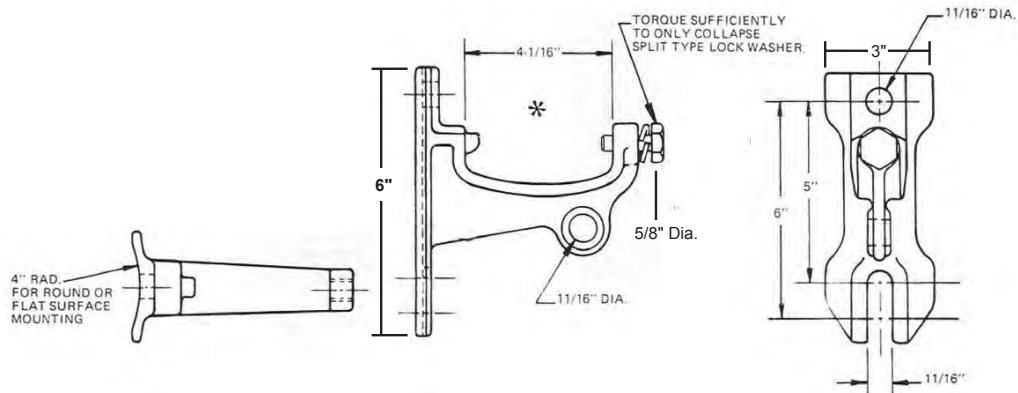


Brackets

Trunnion

Material

Ductile iron hot dip galvanized



Catalog Number	Weight /100 (lbs)
TSWB-55-6	400

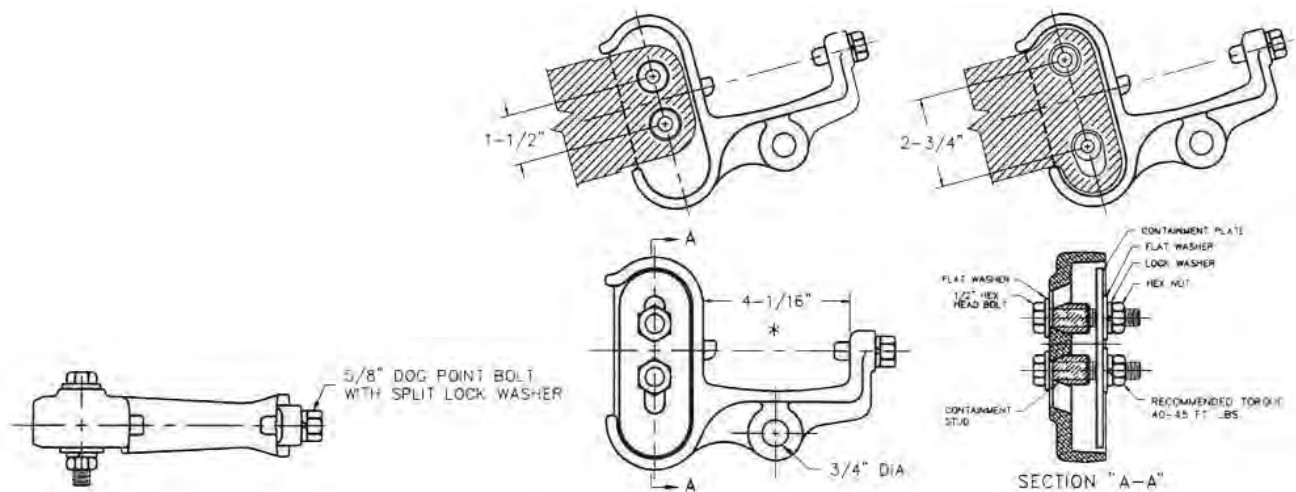
Trunnion

Features

- Containment studs will adjust to fit insulators being used
- Trunnion adapter fits standard 2 1/2" diameter polymer post insulators

Material

Body: Aluminum alloy
Stud: Aluminum alloy
Plate: Aluminum alloy
Hardware: Steel hot dip galvanized



Catalog Number	Minimum Ultimate Strength (lbs)	Weight /100 (lbs)
PITA-250	2800	263



Clamps



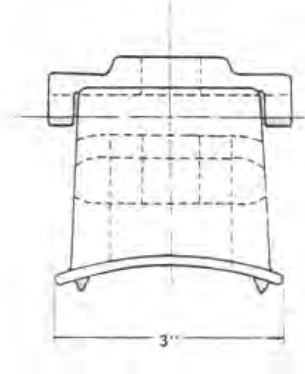
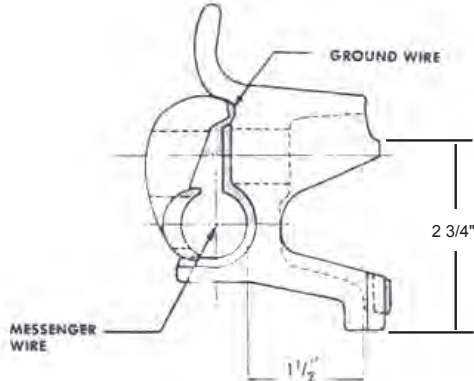
Aerial Cable, Messenger

Features

- Hook for supporting messenger during stringing operation
- Body tapped for 5/8" diameter bolt
- Independent clamping - messenger remains clamped if pole shrinkage occurs
- Teeth on legs to resist movement

Material

Aluminum alloy



Catalog Number	Mounting Bolts	Ground Wire Dia. (in)	Messenger Range (in)	Weight /100 (lbs)
MBA-72	5/8"	0.12 - 0.25	0.25 - 0.72	65



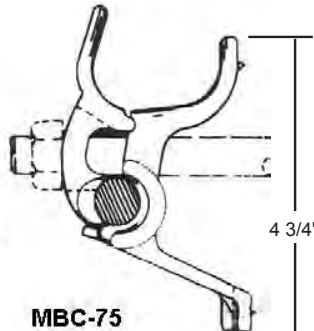
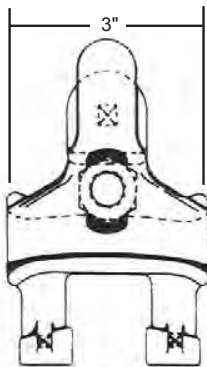
Aerial Cable, Messenger

Features

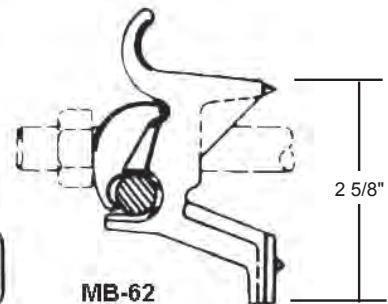
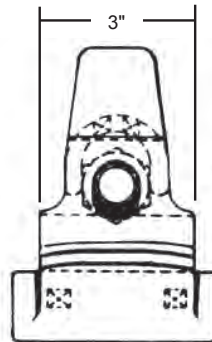
- Curved groove for more cable support
- Lip on bottom groove kicks upward to support cable during installation
- Hook to support cable during stringing operation
- Independent clamping - messenger remains clamped if pole shrinkage occurs

Material

Ductile iron hot dip galvanized



MBC-75



MB-62

Catalog Number	Mounting Bolts	Pole Clearance	Ground Wire Dia. (in)	Messenger Range (in)	Weight /100 (lbs)
MBC - 75	5/8"	1 1/2"	--	0.35 - 0.75	175
MB-62	5/8"	1 1/2"	0.16 - 0.25	0.25 - 0.61	200



Clamps

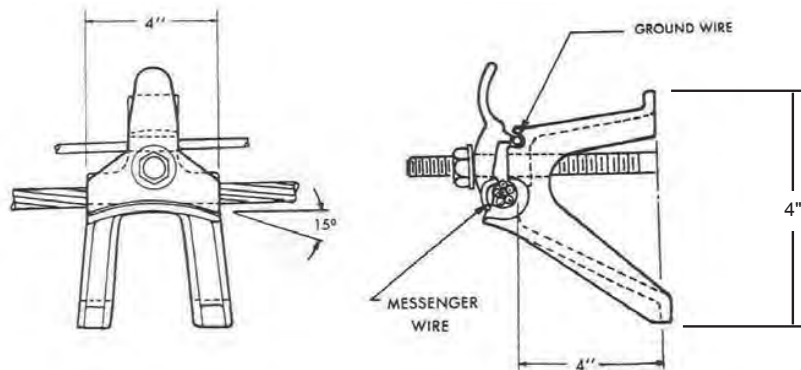
Aerial Cable, Messenger

Features

- Curved messenger groove for better support
- Body tapped for 5/8" - 11 UNC thru bolt
- Hook for supporting messenger during stringing operation
- Messenger groove lip kicks upward to support cable during installation
- Independent clamping- messenger remains tight if pole shrinkage occurs
- Cable range of ground wire is 0.16" to 0.25"

Material

Aluminum Alloy



Catalog Number	Mounting Bolts	Ground Wire Range (in)	Messenger Range (in)	Weight /100 (lbs)
MBCA-72-4	5/8"	0.16 - 0.25	0.25 - 0.72	167

Aerial Cable, Messenger

Features

- May be used to support fiber optic cable
- Can be mounted on round or flat surfaces, on a pole, or on a standoff bracket
- Clamping range 0.398" - 0.56"
- Mounting hole is 11/16"

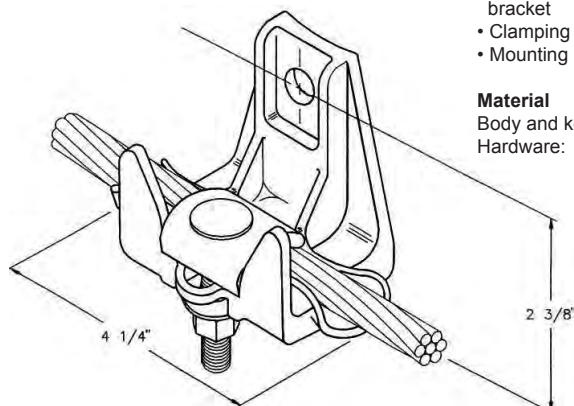
Material

Body and keeper:

Aluminum alloy

Hardware:

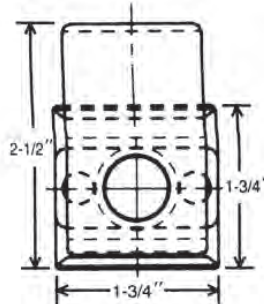
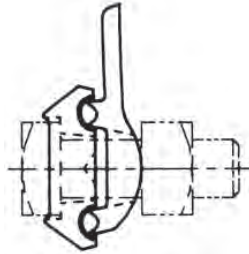
Steel hot dip galvanized



Catalog Number	Weight /100 (lbs)
MSBC-56	119



Clamps



Aerial Cable, Messenger

Features

- Small economical clamp for light duty construction
- A stringing finger is included on the clamping plate
- The back of the clamp body is recessed to fit over nut
- A second nut secures the clamp plate and assures positive, independent clamping action regardless of wood shrinkage

Material

Ductile iron hot dip galvanized

Catalog Number	Mounting Bolts	Ground Wire Dia	Messenger Range (in)	Weight /100 (lbs)
PA166A	5/8"	0.162 - 0.257	0.162 - 0.257	46

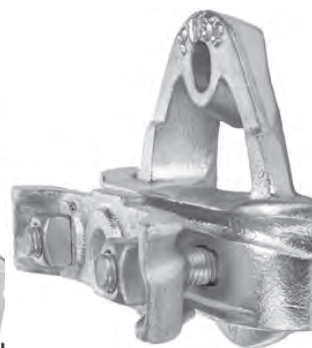
Aerial Cable, Messenger

Features

- For attaching medium to heavy duty cable on both angle and tangent construction
- Two separate clamping plate bolts allow clamping action to be independent of wood shrinkage

Material

Ductile iron hot dip galvanized



Catalog Number	Mounting Bolts	Pole Clearance	Messenger Range (in)	Clamp Bolts	Weight /100 (lbs)
PA175C	3/4"	2"	0.43 - 0.63	5/8 - 2 1/2"	600

Notes:
Two clamp bolts



Clamps



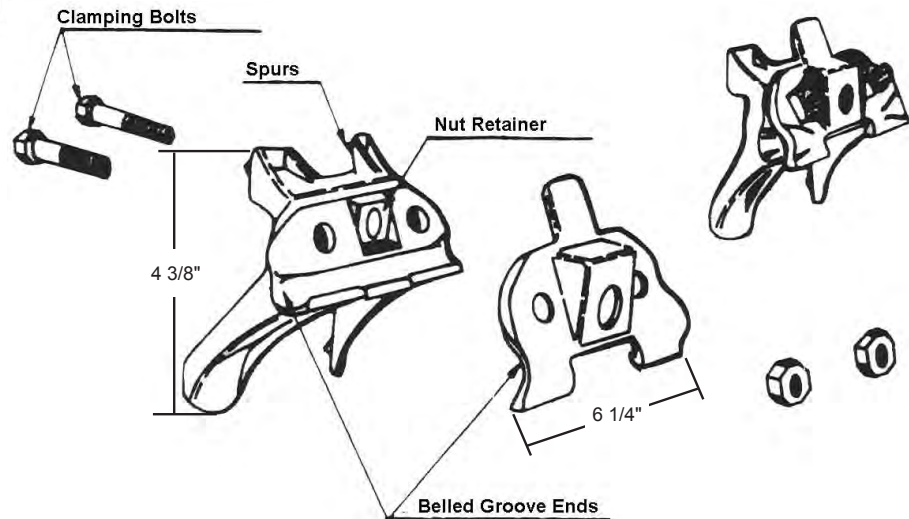
Aerial Cable, Messenger

Features

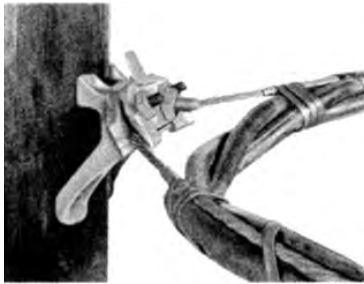
- Nut Retainer - cast in body of clamp permits independent mounting of body; also permits through bolt to act as an extra independent clamping bolt
- Belled Groove Ends - allow better angle, as well as tangent installations
- Spurs - provide better stability
- Independent Clamping - not affected by pole shrinkage

Material

Ductile iron hot dip galvanized



Catalog Number	Mounting Bolts	Pole Clearance (in)	Ground Wire Dia. Range	Messenger Range (in)	Clamp Length	Weight /100 (lbs)
MBXH-82	3/4"	3	0.125" - 0.184"	3/8 - 3/4	5"	700



Aerial Cable, Messenger

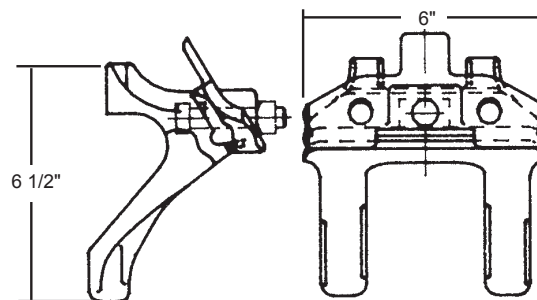
This messenger aerial cable clamp is designed for attaching medium size cable and triplex to a pole.

Features

- 6" long curved clamping groove to conform to sag of span
- Generously belled groove ends for angles
- Teeth on feet resist downslotting
- Smooth area for stringing operation
- Special nut retaining feature around body mounting bolt hole

Material

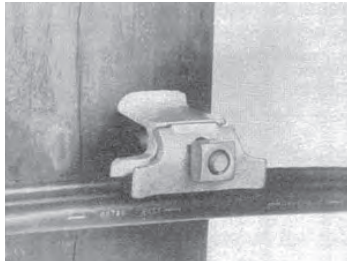
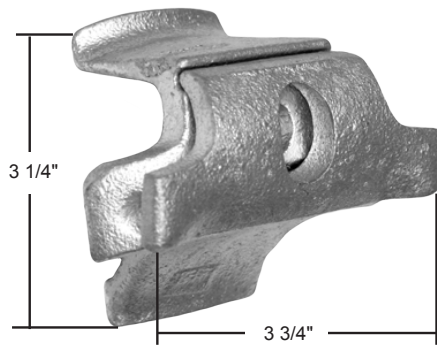
Ductile iron hot dip galvanized



Catalog Number	Mounting Bolt Dia.	Pole Clearance	Ground Wire Dia. Range	Messenger Range (in)	Clamp Bolt Dia.	Weight /100 (lbs)
PA192A	5/8"	2 1/4"	0.125" - 0.184"	0.310 - 0.500	(2) 1/2 x 2"	499



Clamps



Aerial Cable, Messenger

Features

- Accommodates inside or outside angles from 10° to 35°
- Accommodates 0.25" - .50" bare messenger or 0.25" insulated messenger
- Clamp groove ends are generously rounded to prevent damage to bare or insulated messenger
- The inner pole side clamp section is tapped to accept a 5/8" diameter bolt and includes a curved surface with spurs to penetrate into the pole and provide a stable installation.
- The design provides a 1 - 5/8" clearance from the surface of the pole to the cable and 3 - 3/4" clamping surface length with a back base height of 3 1/4".

Material

Ductile iron hot dip galvanized

Catalog Number	Weight /100 (lbs)
PA288	144



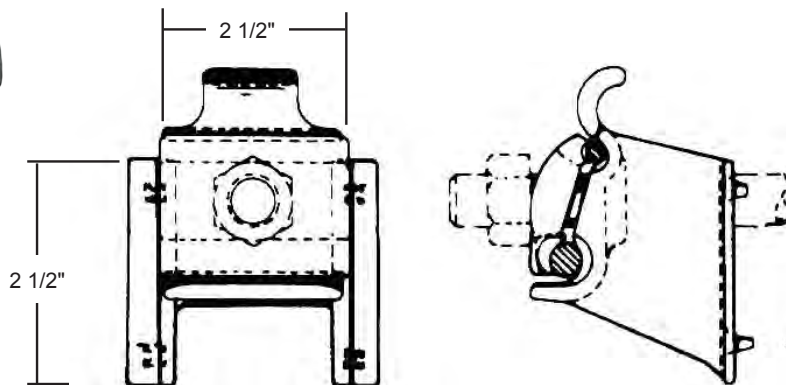
Aerial Cable, Messenger

Features

- Hook to support cable during stringing operation
- Independent clamping- messenger remains clamped if pole shrinkage occurs

Material

Ductile iron hot dip galvanized



Catalog Number	Mounting Bolts	Pole Clearance	Ground Wire	Messenger Range (in)	Weight /100 (lbs)
SB32/42	5/8"	1 1/2"	0.16 - 0.37	0.25 - 0.56	150



Clamps



Aerial Cable, Messenger, Corner Attachment

Features

- Corner attachment clamps are used for angles of 35° to 60°
- Accommodates 5/8" diameter pole mounting bolt
- The inner pole mounting surface is curved with integral spurs for contact stability with the pole
- The integral thimble eyes will accept deadending devices up to 1/2" diameter

Material

Ductile iron hot dip galvanized

Catalog Number	Eye Center Spacing	Clamp Length	Weight /100 (lbs)
P294	2 1/2"	6	209

Aerial Cable, Messenger, Midspan

Features

- MSD-4 has a "swing away" keeper for easy installation

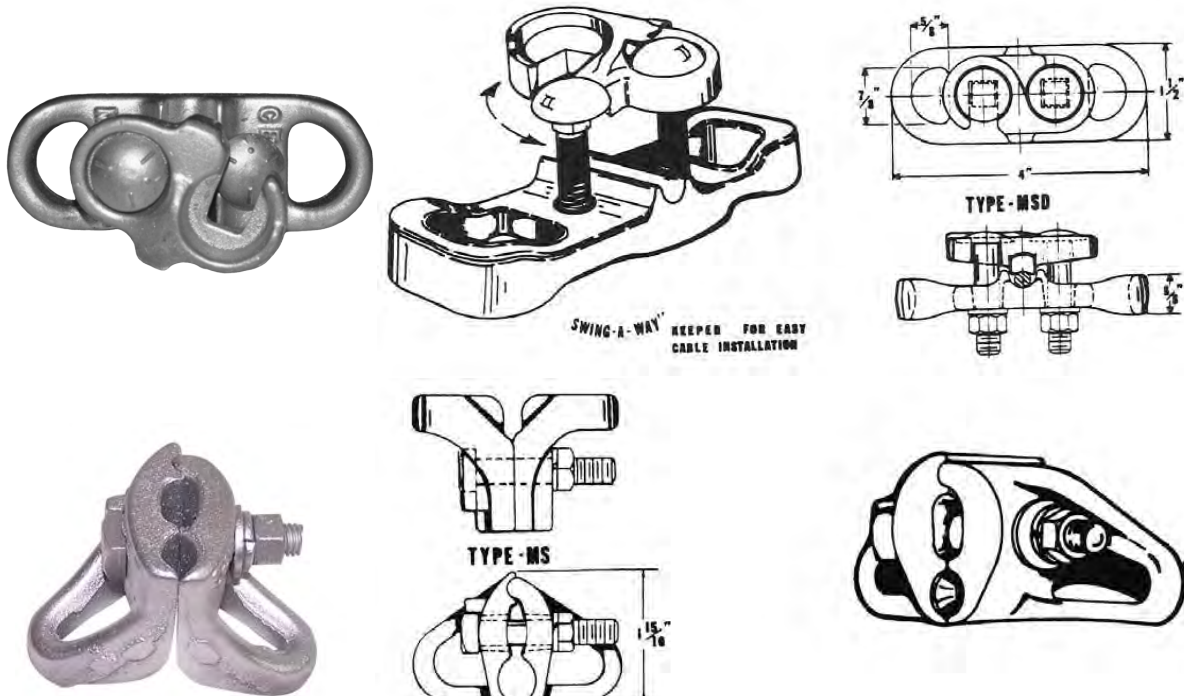
Material

Body and keeper:

Aluminum alloy

Hardware:

Steel hot dip galvanized



Catalog Number	Mounting Bolts	Cable Diameter	Weight /100 (lbs)
MSD-4	3/8"	0.23 - 0.42"	52
MS-6	3/8"	0.39 - 0.57"	50

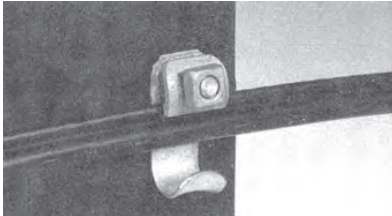


Clamps



PA296X

PA292X



Aerial Cable, Messenger with Hook

These clamps are used for tangent construction or angles to 10°.

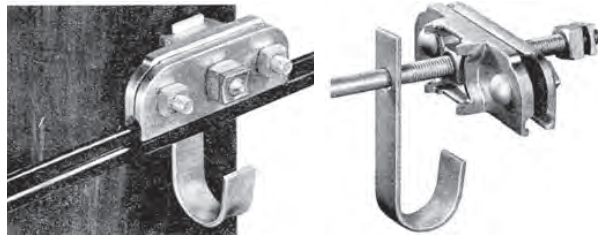
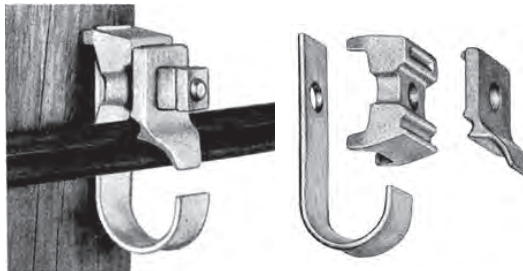
Features

- Hook serves as a safety device and can be used in stringing the cable
- Accommodates 5/8" pole mounting bolt

Material

Ductile iron hot dip galvanized

Catalog Number	Clamp Gripping Length (in)	Messenger Range	Weight /100 (lbs)
PA292X	1 3/4	0.109 - 0.134" bare or insulated	57
PA296X	3 1/4	250 insulated	147



Aerial Cable, Messenger with Hook

Features

- For tangent or angles to 10°
- Accommodates 1/4" insulated messenger
- Independent clamping-remains tight if pole shrinkage occurs

Material

Ductile iron dip galvanized

Catalog Number	Clamp Gripping Length (in)	Weight /100 (lbs)
J2235	1 7/8	172
J2245	3 1/4	370



Clamps

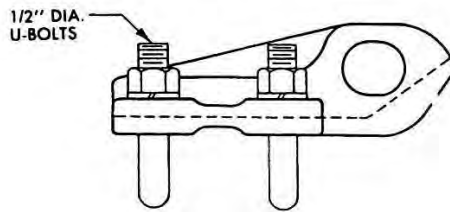


Auxiliary Anchor Eye

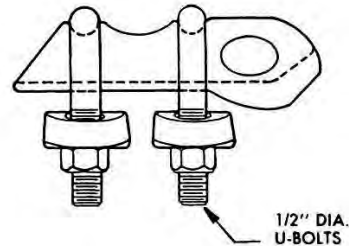
Auxiliary anchor eye rod clamps permit an efficient method of adding an eye to an existing anchor rod for attaching an additional guy wire

Material

Ductile iron hot dip galvanized



AE-155B



**AE-155
AE-155A**

Catalog Number	Thimble Diameter	Anchor Rod Dia. Range	Max Strand	Rating (lbs)	Weight /100 (lbs)
AE-155	1 1/2	5/8 - 3/4"	1/2	18000	253
AE-155-A	1 1/2	3/4 - 1"	1/2	18000	300
AE-155B	1 1/8	1 - 1/4"	9/16	18000	300



Beam

B-beam clamp is used in conjunction with a 5/8" thimbleye bolt in the application of deadending to I beams

Features

- Clamping screw allows the clamp to be positioned on the beam flange

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J25911	75



Clamps



One Bolt



Three Bolt

Cable Suspension

MPS cable suspension clamps are used with through bolts which serve as a clamping member and are shaped to securely grip messenger wire to the pole.

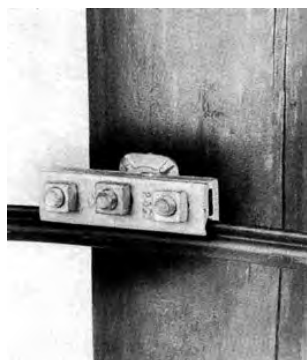
Features

- A nut and square washer is used between the clamp and pole to provide proper spacing
- One bolt clamp consists of the clamping members only - a 5/8" through bolt (not included) tightens the clamp on the wire as well as to the pole
- Three bolt clamps are furnished with a 5/8" through bolt hole
- J25088.1 keeper plate is flat

Material

Steel hot dip galvanized

Catalog Number	No. of Bolts	Clamp Bolt Dia.	Clamp Length	Mounting Hole Dia.	Strand Dia.	Weight /100 (lbs)
J1095	1		2 1/2	11/16"	1/4 - 7/16"	67
J1096	3	1/2"	5 3/4	11/16 x 15/16"	1/4 - 7/16"	180
J25088.1	3	1/2"	5 3/4	11/16 x 15/16"	1/4 - 7/16"	175



Cable Suspension

Features

- Incorporates serpentine grooves in the two mating clamp sections to provide superior holding strength of insulated messenger wire
- Can be used for tangent construction or angles to 30°
- Designed for use with 0.25" insulated figure 8 messenger or 0.25" bare messenger
- Clamps are supplied with two track bolt assemblies and a center mounting hole

Material

Ductile iron dip galvanized

Catalog Number	Clamp Bolt Dia.	Clamp Length	Mounting Hole Dia.	Weight /100 (lbs)
PA422	5/8"	6	11/16 x 15/16"	258



Clamps



Cable Suspension, Angle

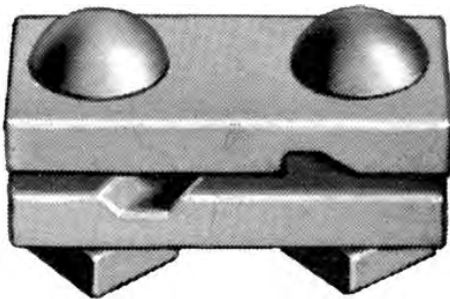
Features

- Angle suspension clamps have curved ends to prevent damage to the messenger strand when turning small angles
- All clamps firmly grip 1/4 to 7/16" diameter strand
- They are furnished with two track bolts and a center mounting hole

Material

Steel hot dip galvanized

Catalog Number	Clamp Bolt Dia.	Clamp Length	Clamping Width (in)	Mounting Hole Dia.	Weight /100 (lbs)
J7901	1/2	5 3/4	1 11/16	13/16	208
J7901A	1/2	5 3/4	1 11/16	11/16	210
J7902B	5/8	6	2 3/16	13/16	385



Crossover

Features

- Used to clamp on two messengers where they cross at right angles to prevent wear and abrasion
- The J7930 clamp sections are 1 1/2" wide and 3 1/4" long
- Two 1/2" diameter bolts have oval shoulders to prevent turning when tightening

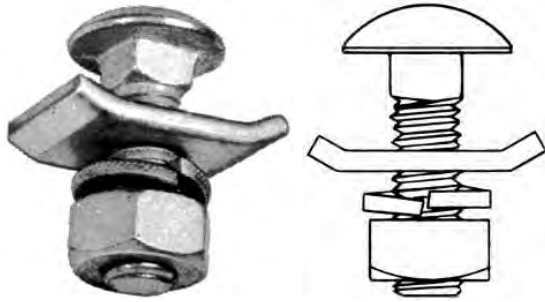
Material

Ductile iron hot dip galvanized

Catalog Number	Strand Dia. Range	Weight /100 (lbs)
J7930	1/4 - 3/8"	154



Clamps



Ground/Bond

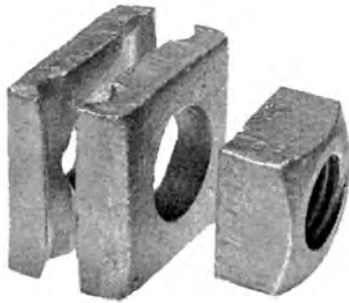
Features

- Grounding lug assembly consists of a 3/8" x 1 1/4" carriage bolt, complete with wire clamp, spring lockwasher, and square nut

Material

Steel hot dip galvanized

Catalog Number	Ground Wire Dia Range	Weight /100 (lbs)
J771018	0.16 - 0.38"	12.2



Ground/Bond

Features

- Used to attach ground wires at the nut end of bolts on transmission lines
- Includes two 1 1/2" long clamp sections and one square nut

Material

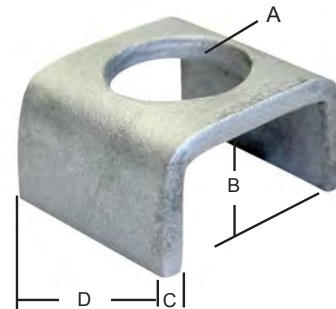
Steel hot dip galvanized

Catalog Number	Mounting Bolts	Ground Wire Dia.	Weight /100 (lbs)
J1163	5/8"	3/16 - 3/8"	50
J1164	3/4"	1/4 - 1/2"	52



Ground/Bond

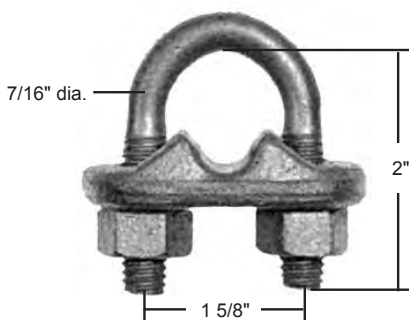
MacLean galvanize steel bond clamps provide a sturdy and efficient provision to connect ground wire to threaded bolts. The clamps are designed to nest over the square nut of the bolt. The grounding connection is accomplished by inserting the ground wire between the nut and the bonding clamp and adding an additional nut to secure the clamp and ground connection. The clamps accommodate the most common range of ground wire diameters.



Catalog Number	For Bolt & Square Nut Size				Ground Wire Dia. Range	Weight /100 lbs.
	A Bolt Size	B	C	D		
J27276	5/8	0.520	0.187	1.00	0.162-0.312	10.4
J27277	3/4	0.600	0.187	1.25	0.162-0.312	15.1
J27278	7/8	0.730	0.187	1.50	0.162-0.312	21.2
J27279	1	0.840	0.187	1.68	0.162-0.437	27.2



Clamps



Ground/Bond

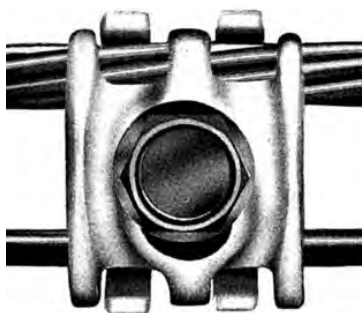
Features

- Used to clamp ground wire to 5/8" and 3/4" rods

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J8225	55



Ground/Bond

Features

- The assembly consists of two clamp sections and a 5/16 x 7/8" bronze hex washerhead bolt
- One clamp section is tapped to allow installation with a single wrench

Material

Bronze with tin plating

Catalog Number	Description	Wire Range	Weight /100 (lbs)
J8300	Semi-tin plated clamp with one bare bronze groove	0.162 - 0.398"	16
J8301	Completely tin plated clamp	0.162 - 0.398"	16



Ground/Bond

MPS bronze ground rod clamps, used with copper-bonded ground rods, provide a low resistance, secure copper-to-copper connection.

Features

- Heavy duty clamp develops high pressure contact between rod and grounding wire
- Can be easily disconnected to measure resistance of the ground

Material

Bronze

Catalog Number	Rod Size	Ground Wire	Weight /100 (lbs)
J8491	1/2	2 - 10 AWG	16
J8492	5/8	8 - 1/0 AWG	18
J8493	3/4	8 - 1/0 AWG	26



Ground/Bond

MPS ground rod clamps are designed for heavy duty ground connections to galvanized ground rods

Features

- Consists of a stainless steel hex-head bolt and a hot dip galvanized clamp body
- Accommodates 5/8" diameter ground rods

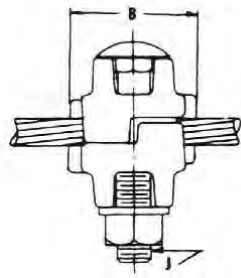
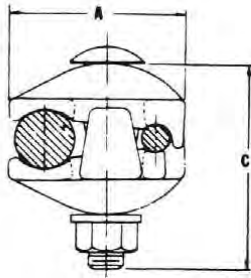
Material

Ductile iron dip galvanized

5/8" Malleable Ground Rod Clamp		
Catalog Number	Ground Wire Dia.	Weight /100 (lbs)
J25932	#10 - #2	16



Clamps

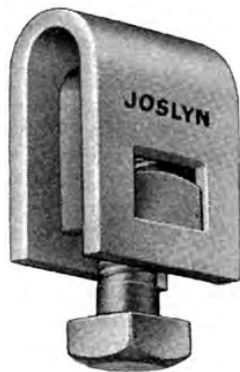


Ground/Bond

Material

Clamp: Ductile iron dip galvanized
Hardware: High strength steel, hot dip galvanized

Catalog Number	A	B	C	J	Cable Range		Weight /100 (lbs)
					Main	Tap	
BC-63	1 5/8	1 1/4	1 3/4	3/8	0.25 - 0.56"	0.16 - 0.30"	51
BC-105	2 1/2	1 1/2	3	1/2	0.50 - 1.00"	0.16 - 0.46"	107



Ground/Bond

This grounding clamp is used to bond the cable sheath to the messenger strand

Features

- Clamp body is made with an inside keeper riding on the end of the bolt
- 1/2" bolt can be removed to place the clamp over the messenger wire
- The clamp body is made of 1 1/2" x 3/16" steel

Material

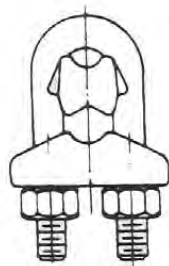
Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J7956	52

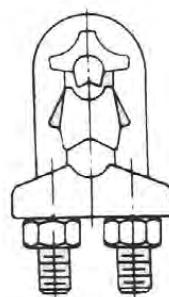
Ground/Guy Clip

Material

Keepers: Ductile iron hot dip galvanized
U-bolts: Steel hot dip galvanized



GC-67



GC-64C
GC-67C



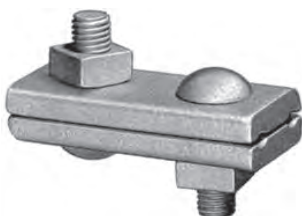
Catalog Number	Wire Range (in)	U-Bolt Dia. (in)	Weight /100 (lbs)
GC-64C	0.18 - 0.38	3/8	64
GC-67	0.25 - 0.50	1/2	106
GC-67C	0.25 - 0.50	1/2	130



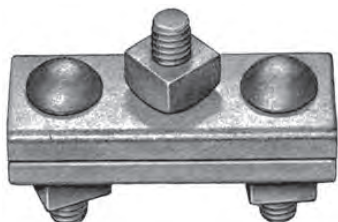
Clamps



One Bolt



Two Bolt



Three Bolt

Guy

Features

- Rolled from carbon steel with straight parallel grooves that will not damage guy strand
- The clamping bolts have special shoulders to prevent turning when the nuts are tightened

Material

Steel hot dip galvanized

Catalog Number	No. of Bolts	Bolt Dia.	Clamping Length	Clamping Width	Strand Dia. Range (in)	Weight /100 (lbs)
J1061	1	1/2	1 1/2	1 9/16	3/16 - 3/8	63
J1030	2	1/2	3 3/8	1 9/16	3/16 - 3/8	126
J929	3	1/2	4	1 9/16	3/16 - 7/16	160
J930	3	1/2	6	1 9/16	3/16 - 7/16	224
J931	3	5/8	6	1 21/32	5/16 - 1/2	256



Static Wire/ Bayonet

Static wire clamps are used to secure 1/4" to 7/16" static wire to bayonet assemblies and steel tower members

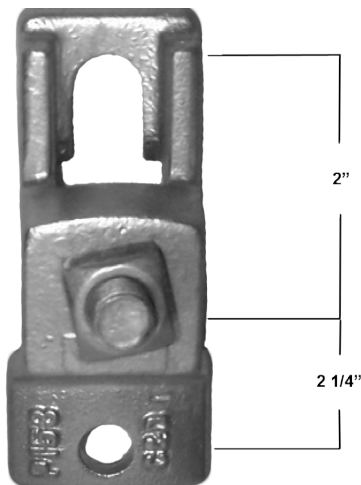
Features

- Consists of two 2 1/2" long rolled steel clamp sections with the groove ends belled out to prevent damage to the wire and one 1/2 x 2 1/2" machine bolt for mounting
- Accommodates 1/4" - 7/16" wire range

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J5455	94



Support Type B Extension

The Support Type B Extension clamp is designed to facilitate adding an additional cable to the opposite side of the pole.

Features

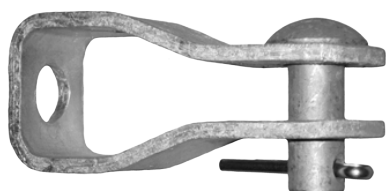
- Installed by loosening the existing 5/8" diameter machine bolt and slipping the clamp support over the head of the bolt
- 5/8 x 2 1/4" machine bolt and nut are included to secure a suspension clamp
- For small inside angles, a 1/2" lag screw may be installed in the base for increased stability

Material

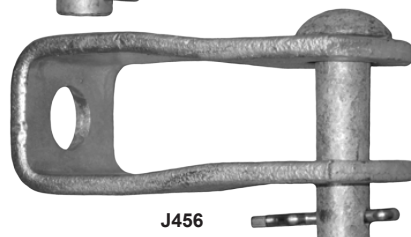
Body: Ductile iron hot dip galvanized
Bolts and nuts: steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
PA158	180

Clevises



J455



J456

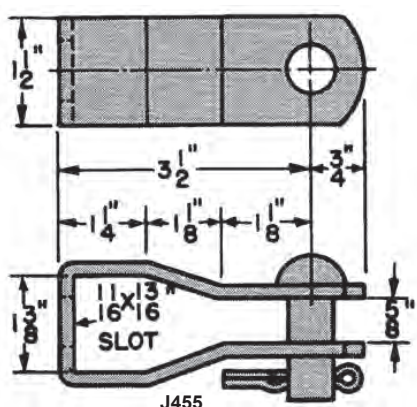
Deadend Eyelet

Features

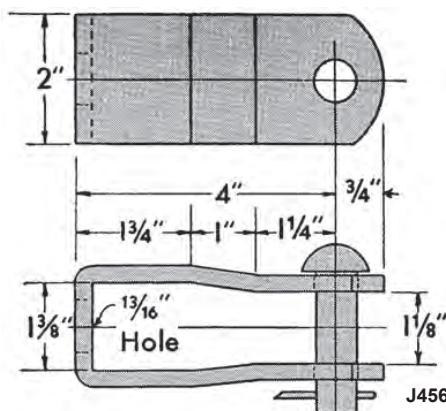
- Eyelet clevises are used under a bolt head or nut for deadending suspension insulators
- Furnished complete with a 5/8" diameter buttonhead bolt and self-locking cotter pin

Material

Steel hot dip galvanized

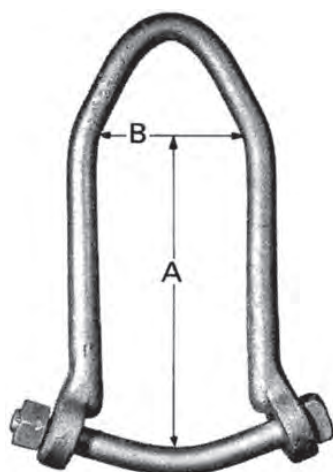


J455



J456

Catalog Number	Steel Size	Mounting Bolt Dia. (in)	Ultimate Strength (lbs)	Weight /100 (lbs)
J455	1 1/2 x 3/16	5/8	12000	98
J456	2 x 1/4	3/4	20050	176



Heavy Strain Insulator

Features

- Forged from 1/2" diameter steel with a 1/2" curved bolt complete with Anco® locknut and are used with porcelain guy strain insulator
- Minimum ultimate strength is 12,400 pounds

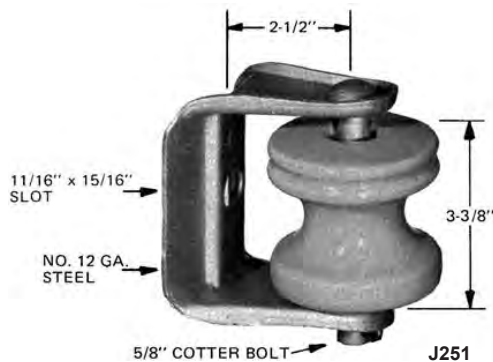
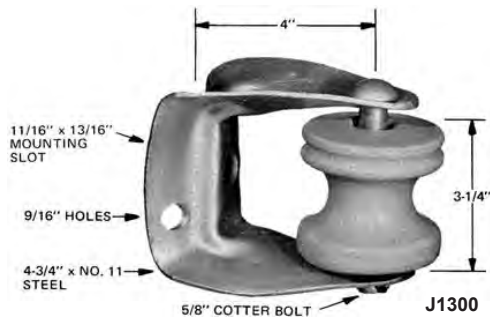
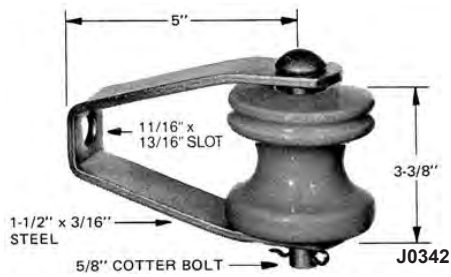
Material

Steel hot dip galvanized

Catalog Number	A	B	Use with Insulator	Weight /100 (lbs)
J732	5	2 1/2	L506	146



Clevises



Insulated Secondary & Deadend

Features

- Clevis mounting holes are for 5/8" bolts
- Mounting holes are slotted to permit installation without removing insulators
- Insulators must be ordered separately

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J0313	118
J0342	152

Insulated Secondary & Deadend

The J1300 clevis is designed to develop high strength on deadends or line pulls.

Features

- Clevis mounting holes are for 5/8" bolts
- Mounting holes are slotted to permit installation without removing insulators
- Includes mounting slot for one 5/8" machine bolt and two staggered side holes for 1/2" lag screws
- Used with either the J151 or J0101 spool insulator which is ordered separately

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J1300	210

Insulated Secondary & Deadend

Features

- Clevis mounting holes are for 5/8" bolts
- Mounting holes are slotted to permit installation without removing insulators
- Used with the J151 spool insulator which is ordered separately

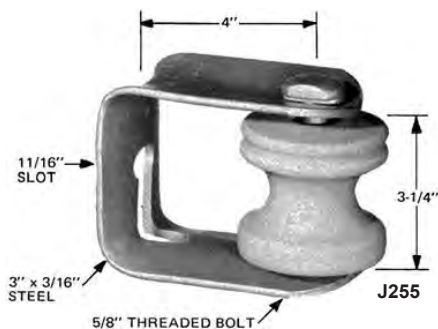
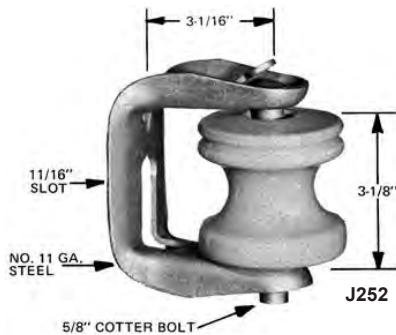
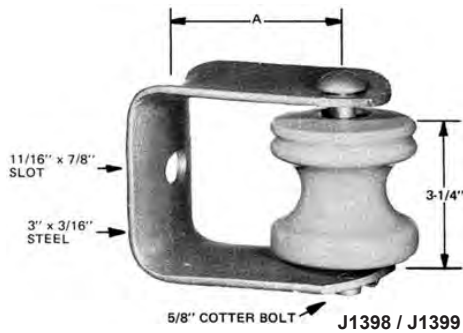
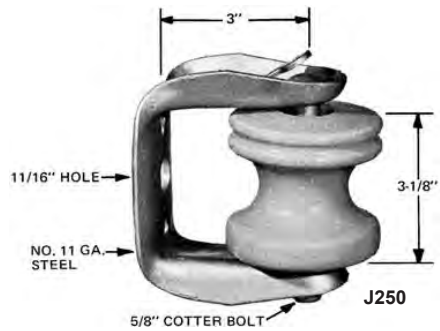
Material

Steel hot dip galvanized

Catalog Number	Width	Weight /100 (lbs)
J251	3 3/4	118



Clevises



Insulated Secondary & Deadend

Features

- The J250 has two sharp projections in the back to prevent it from twisting
- The cotter bolt is held in position by means of the same type of tab that is used on the J252

Material

Steel hot dip galvanized

Catalog Number	A	For use w/Insulator Catalog	Weight /100 (lbs)
J250		J151 or J101	152
J1398	3 1/2	J151 or J101	240
J1399	4	J151 or J101	254

Insulated Secondary & Deadend

The J252 and J255 Secondary Pulley Brackets are designed for use both as stringing pulleys and as secondary clevises, making them especially useful for stringing and sagging conductors.

The conductor is strung and sagged with the bracket in the pulley position where it cannot bind. The 908 slot in the base makes it possible to rotate the bracket into the clevis position before or after the conductor is tied to the spool.

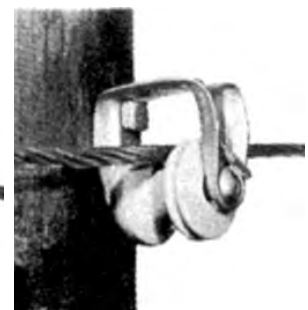
Features

- J252 light-type has a metal tab which contains the insulator bolt
- The cotter bolt of the J255 heavy duty-type threads into the bottom of the clevis, locking the special Twist-Lock head into a groove in the clevis top
- Both features eliminate the cotter pin

Material

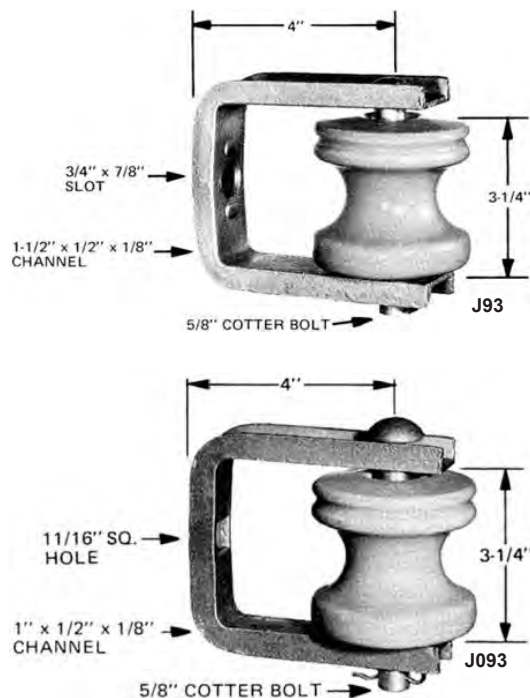
Steel hot dip galvanized

Catalog Number	For use w/Insulator Catalog	Width	Weight /100 (lbs)
J252	J151 or J101	2 5/8	150
J255	J151 or J101 or J0101	3	256





Clevises



Insulated Secondary & Deadend

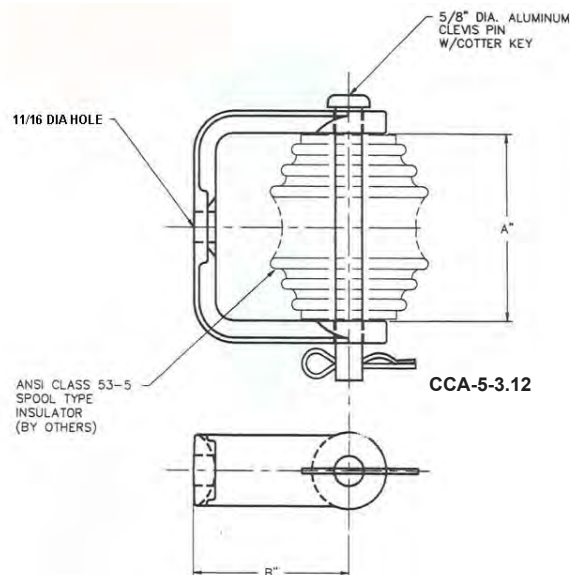
Features

- J93 Clevis is formed from stiff, hot rolled channel, making it much heavier and stronger than similar brackets made of pressed steel channel
- The J93 clevis features raised projections near the bolt mounting slot which assist in capturing the bolt head to resist turning
- The J093 clevis has an 11/16 inch square hole for mounting with either a 5/8 inch carriage or machine bolt

Material

Steel hot dip galvanized

Catalog Number	For use w/Insulator Catalog	Weight /100 (lbs)
J93	J151 or J101	168
J093	J151 or J101	140



Insulated Secondary & Deadend

Features

- Corrosion resistant aluminum alloy clevis for use with a 3 in. spool insulators

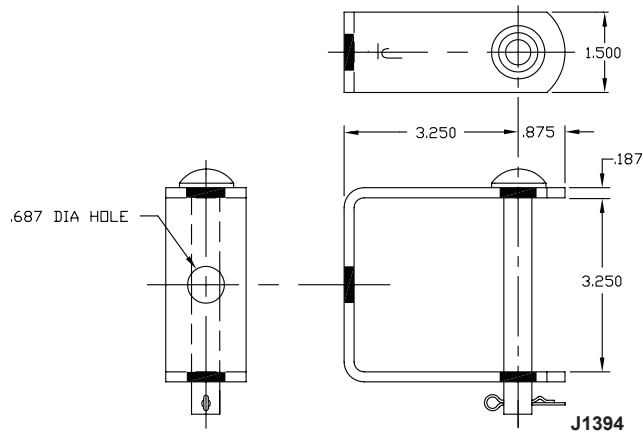
Material

Clevis Body: Aluminum Alloy
Hardware: Aluminum Alloy
Cotter Key: Stainless Steel

Catalog Number	A	B	Weight /100 (lbs)
CCA-5-3.12	3 1/8	3 5/8	85



Clevises



Insulated Secondary & Deadend

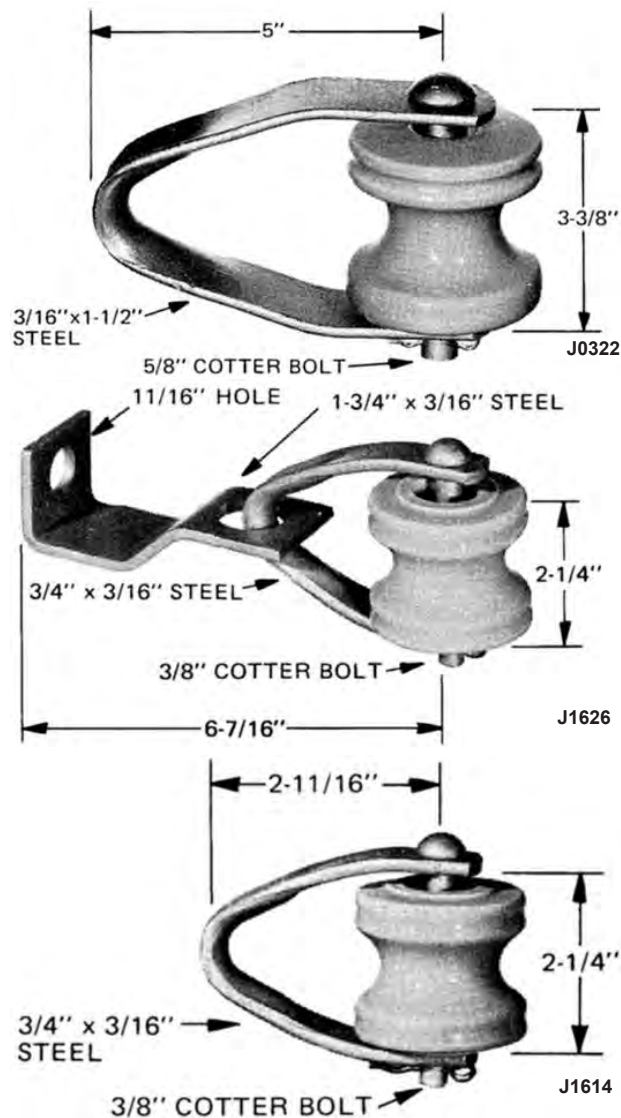
Features

- Economical secondary clevis for standard 3 inch spool insulator

Material

Steel hot dip galvanized

Catalog Number	For use w/Insulator Catalog	Weight /100 (lbs)
J1394	J151 or J101	124



Insulated, Swinging

Features

- The J0322 and J1614 are used with 5/8 inch or larger eyebolts or eyenuts giving a flexible mounting for equalizing strains at corners
- The J1626 can be bolted to crossarms to provide an insulated deadend assembly

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J0322	160
J1614	45
J1626	95



Clevises



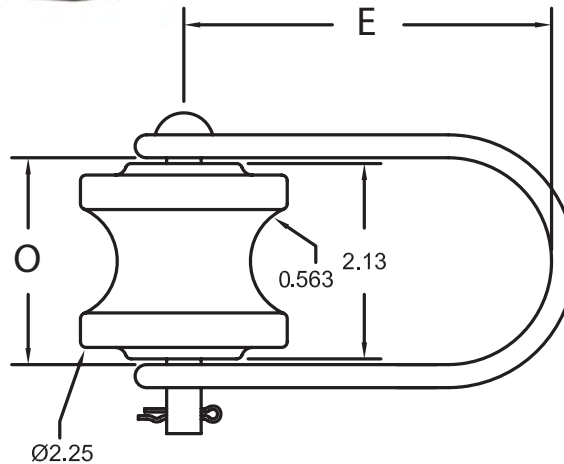
Insulated, Swinging

Features

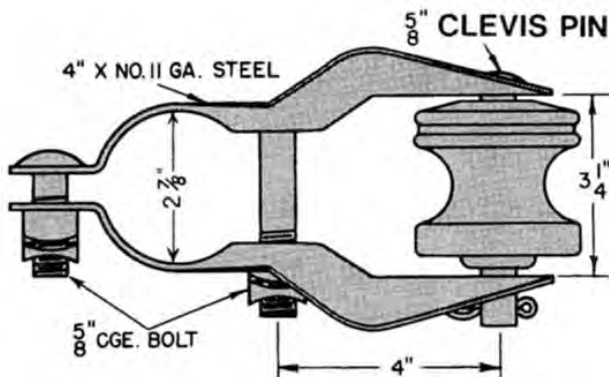
- This bail type secondary clevis, formed from 1/4 inch diameter steel is designed for attaching to eyebolts
- Porcelain spool insulator is included

Material

Steel hot dip galvanized



Catalog Number	E	O	Steel Size	Pin Dia	Insulator Required	Weight /100 (lbs)
U36060/207B	4"	2 1/4"	1/4" Dia	3/8"	Included	78



Pipe Riser

Pipe Riser clevises are used for triplex cable installations on 2-1/2" standard pipe risers.

Features

- Furnished complete with two assembly bolts and one clevis pin
- Used with either the J101, J151, or J0101 spool insulator which is ordered separately

Material

Steel hot dip galvanized

Catalog Number	Pipe Range	Weight /100 (lbs)
J0311	2 1/2"	400



Clevises

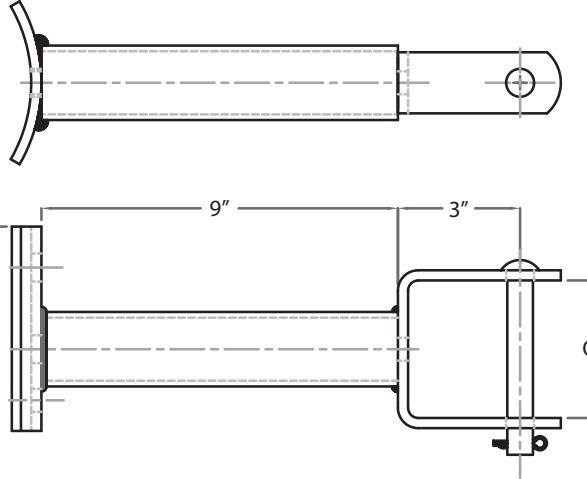
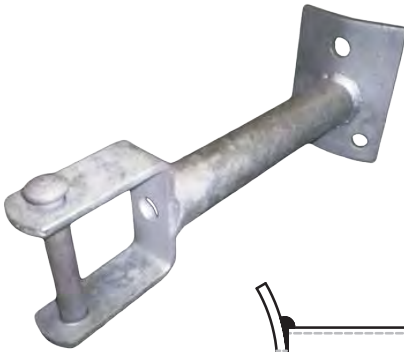
Secondary Extension

Features

- Extension bracket with clevis (U411B9) is used where additional line clearance is required or adjacent to a transformer
- For use with J101 or J151 spool insulator which is ordered separately.

Material

Steel hot dip galvanized



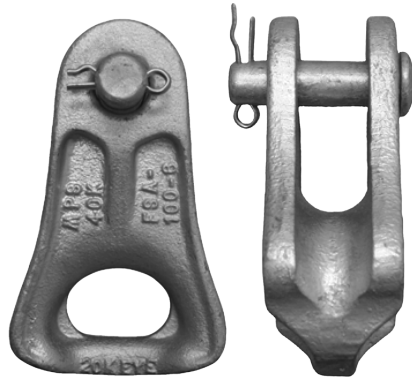
Catalog Number	Mtg Hole	O	Steel Size	Pin Dia	Weight /100 (lbs)
U411B9	11/16 Dia (2) 9/16 Dia	3 3/8"	1 1/4" Dia	5/8"	519



Clevises



SA Series



FSA Series

Thimble

Thimble clevises are used in guying and deadending applications.

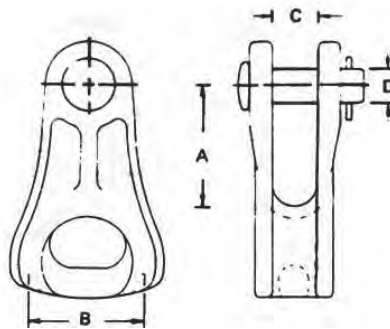
- They are the interface connection fitting used in attaching guy wire, conductor, wire grips or deadend bails to eye type fittings of insulators, eye bolts and pole eye plates.

Features

- Generous wire seat diameter to assist the cable, wire grip or bail in maintaining its shape
- Integral pulling eye area accommodates hooks used in tensioning guy wire or conductor

Material

Body: Ductile iron hot dip galvanized or aluminum alloy
Hardware: Steel hot dip galvanized
Cotter pin: Stainless steel



Ductile Iron Thimble Clevis - FSA Series							
Catalog Number	Min Ultimate Strength	Cable Groove Dia.	A	B	C	D	Weight /100 (lbs)
FSA-88A-5	30000	7/8"	1 7/8	2 1/4	7/8	5/8	145
FSA-100-6	40000	1"	2 1/2	2 1/2	1 1/16	3/4	308
FSA-125-8	60000	1 1/4"	3 3/4	2 1/2	1 1/4	1	550

Aluminum Thimble Clevis - SA Series							
Catalog Number	Min Ultimate Strength	Cable Groove Dia.	A	B	C	D	Weight /100 (lbs)
SA201	12000	7/8	1 7/8	2 1/4	7/8	5/8	78
SA209	12000	1 5/8	2 3/4	2 1/2	7/8	5/8	108
SA100-5	20000	1	2 5/8	2 1/2	1 1/16	5/8	120

Notes:

SA209 supplied with hex head bolt, nut and cotter

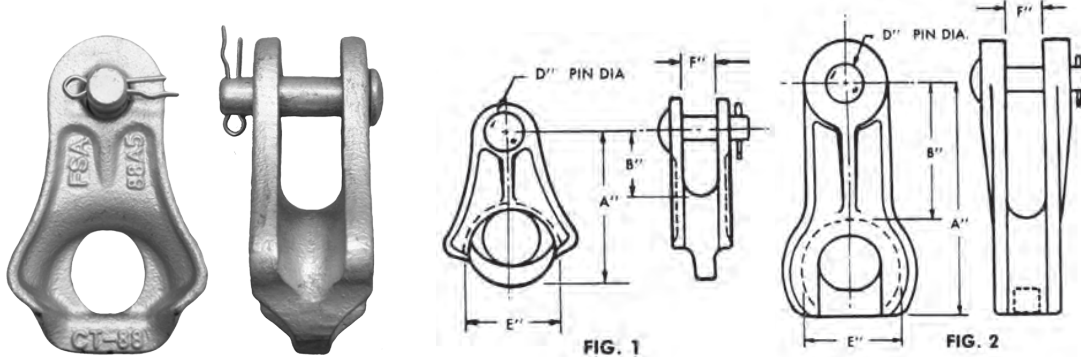


Clevises

Thimble

Material

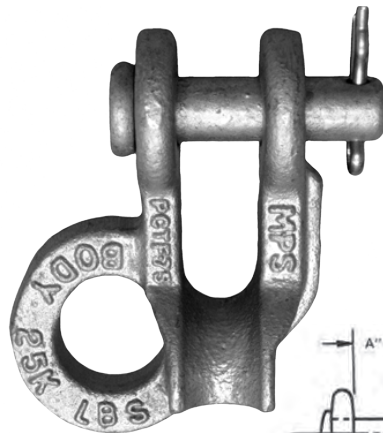
Body: Ductile iron hot dip galvanized or aluminum alloy
Hardware: Steel hot dip galvanized
Cotter pin: Stainless steel



Catalog Number	Figure	Ultimate Strength		Cable Groove Dia	A	B	D	E	F	Weight /100 (lbs)
		Thimble	Pulling Eye							
CT-88	1	20000	12500	0.88	3 9/16	1 3/4	5/8	2 1/4	7/8	175
CT-88H	2	35000	25000	0.88	4 3/8	2 1/4	3/4	2 1/4	7/8	225
CT-100H	2*	60000	40000	1.00	5 7/8	3 1/2	1	2 1/4	1 1/16	400
CT-100H10	2*	80000	40000	1.00	6	3 9/16	1 1/4	2 1/4	1 1/16	500

Notes:

*CT-100 series are equipped with bolt, nut and cotter instead of clevis bolt as illustrated



Thimble

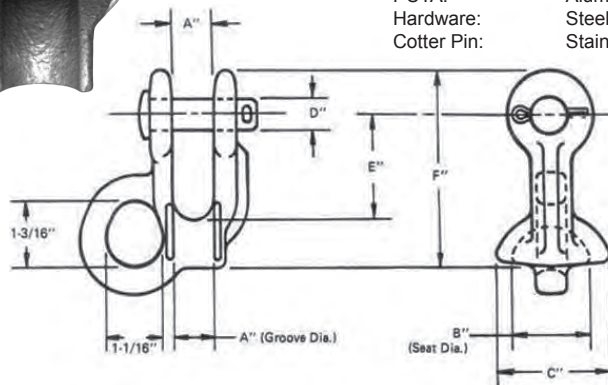
PCTF and PCTA series thimble clevises are used for normal duty guying and deadending applications of cable, wire grips, and bails where 1 1/2 inch wire seat diameters are required.

Features

- Include an integral side pulling eye to facilitate tensioning the guy wire or conductor
- PCTA thimble clevis is made using aluminum alloy for areas with higher corrosion potential

Material

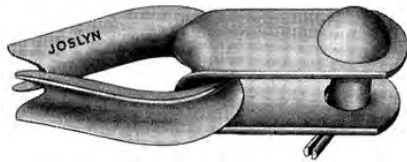
PCTF: Ductile iron hot dip galvanized
PCTA: Aluminum alloy
Hardware: Steel hot dip galvanized
Cotter Pin: Stainless steel



Catalog Number	Conductor Range		Ultimate Strength		A	B	C	D	E	F	Weight /100 (lbs)
	ACSR	Guy Wire	Thimble	Pulling Eye							
PCTF-75	6 - 336.4	3/16 - 5/16	25000	15000	3/4	1 1/2	2 1/8	5/8	1 15/16	3 3/4	200
PCTA-88	6 - 477	3/16 - 3/8	12000	7000	7/8	1 1/2	2 1/8	5/8	1 15/16	3 5/8	100
PCTA-75	6 - 336.4	3/16 - 5/16	10000	6000	3/4	1 1/2	2 1/8	5/8	1 15/16	3 5/8	100



Clevises



J575

Thimble

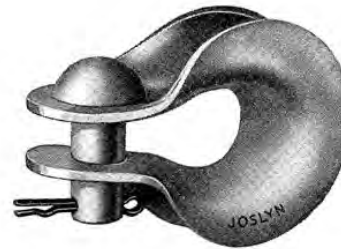
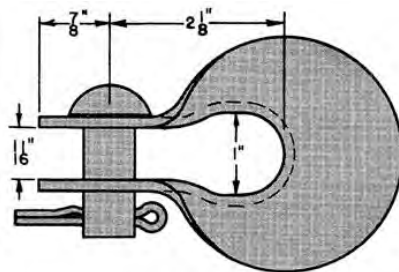
Formed steel thimble clevises provide a light duty, economical interface fitting to deadend wire grips, guy wire, conductor or bails to eye type fittings of insulators, eyebolts and pole eye plates.

Features

- Used where 1 1/2 inch wire seat diameters are required.

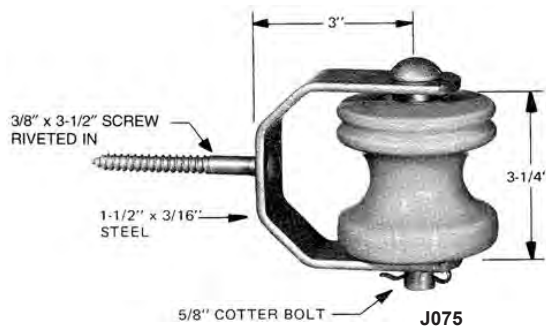
Material

Pressed steel hot dip galvanized



Pressed Steel J554 and J555

Catalog Number	Pin Dia	Ultimate Strength (lbs)	Clevis Opening	Weight /100 (lbs)
J554	1/2	10000	1	97
J555	5/8	10000	1	101
J575	5/8	7500	1	100



J075

Wireholder

Features

- Used with either the J101 or J151 spool insulator for attaching services where triplex-type cable is used
- Insulator sold separately

Material

Steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J075	136



Eyelets

Thimbleye and Ovaleye

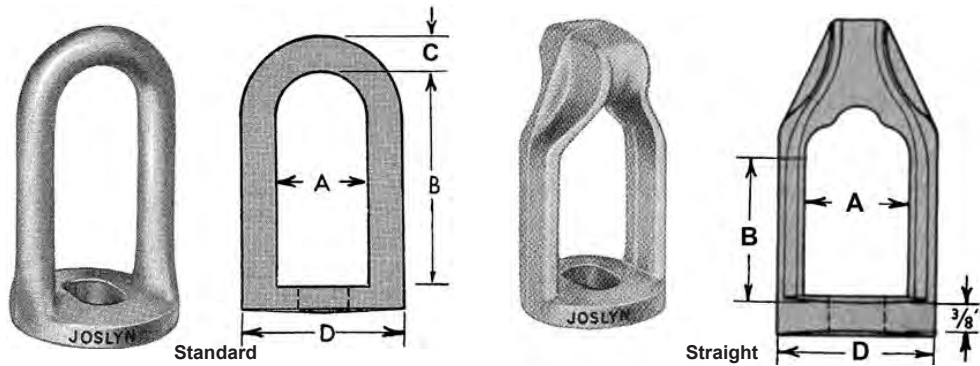
Eyelets, also known as bolt eyes, are used under the head or nut of a bolt. Straight thimble eyelets are used for span guys. Angle thimble eyelets are used for down guys.

Features

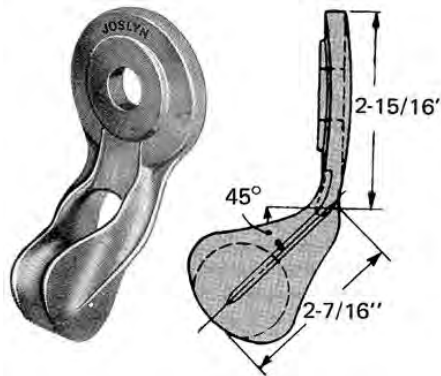
- Compatible with the strength of the bolts used with them; 5/8" = 13,550#, 3/4" = 20,050#
- Standard eyelets are used for deadending
- Standard eyelets and straight thimble eyelets have a slotted hole for ease in inserting the bolt

Material

Steel hot dip galvanized



Catalog Number	Mounting Bolt Hole	Bolt Size (in)	A	B	C	D	Weight /100 (lbs)
J1126	1 1/8 x 11/16	5/8	1 1/4	3	1/2	2 1/4	78
J1127	1 1/8 x 13/16	3/4	1 1/4	3	1/2	2 1/4	70
J6550C	1 x 11/16	5/8	1 5/16	2	3/8	2 1/4	130
J6551	1 1/8 x 13/16	3/4	1 5/16	2	3/8	2 1/4	125



Angle Thimble Eyelet			
Catalog Number	Bolt Dia.	Max Strand	Weight /100 (lbs)
J6500	5/8	1/2	127



Eyenuts



Oval Eyenuit
Figure 1



Thimble Eyenuit
Figure 3

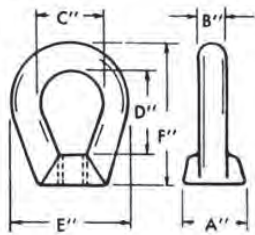


Figure 1

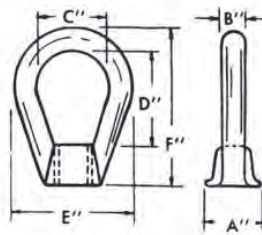


Figure 2

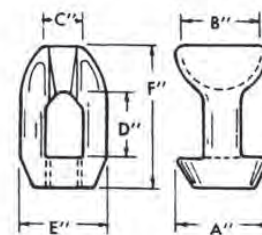


Figure 3

Oval, Thimble, Twineye, and Clevis Eye

Thimble eyenuts are used for span, head and stub guying, twin eyenuts accommodate double guys. Oval eyenuts are used for deadending with suspension and strain insulators or thimble clevises.

Features

- Eyenuts are tapped to fit hot dip galvanized bolts made to ANSI specifications
- Designed to develop strength ratings consistent with the bolts with which they are used - i.e. 1/2" = 85,000 lbs, 5/8" = 13,550 lbs, 3/4" = 20,050 lbs, 1" = 33,500 lbs

Material

Steel hot dip galvanized

Catalog Number	Fig.	Bolt Size (in)	A	B	C	D	E	F	Weight /100 (lbs)
EN-4	1	1/2	1 3/8	9/16	1 1/2	1 3/4	2 5/8	3	100
J1092	1	5/8	1 3/8	9/16	1 1/2	1 3/4	2 5/8	3	72
J1093	1	3/4	1 3/8	9/16	1 1/2	1 3/4	2 5/8	3	53
ENL-5	2	5/8	1 3/8	5/8	1 1/2	2 1/2	2 5/8	4	100
ENL-6	2	3/4	1 3/8	5/8	1 1/2	2 1/2	2 5/8	4	100
J6510	3	5/8	1 1/2	1 1/2	7/8	1 3/8	1 7/8	3	100
J6511	3	3/4	1 1/2	1 1/2	7/8	1 3/8	1 7/8	3	91
J16512	3	1	2	2	7/8	1 1/2	2	4 1/2	200



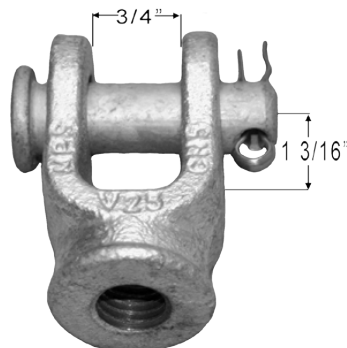
Twineye

Twin eyenuts accommodate double guys.

Material

Steel hot dip galvanized

Twin Eyenuit			
Catalog Number	Bolt Dia. (in)	Strand Size	Weight /100 (lbs)
J6515	5/8	5/8	177
J6516	3/4	5/8	176



Clevis Eyenuit

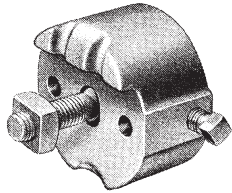
Material

Ductile iron hot dip galvanized

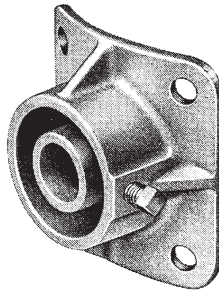
Clevis Eyenuit			
Catalog Number	Bolt Dia. Tap Size	Pin Dia.	Weight /100 (lbs)
CN-5	5/8	5/8	100



Fittings, Guy



J0522



J0521

Sidewalk Guy

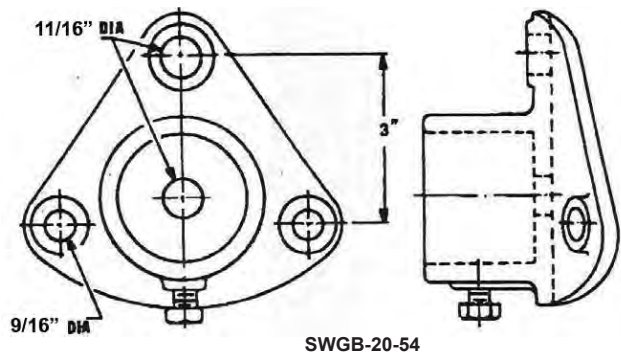
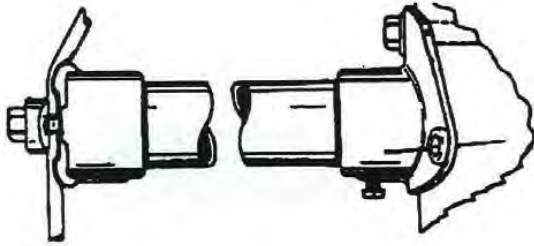
These cast iron fittings are used with standard pipe near sidewalks and buildings where there is insufficient space for standard guying and where head clearance must be maintained.

Features

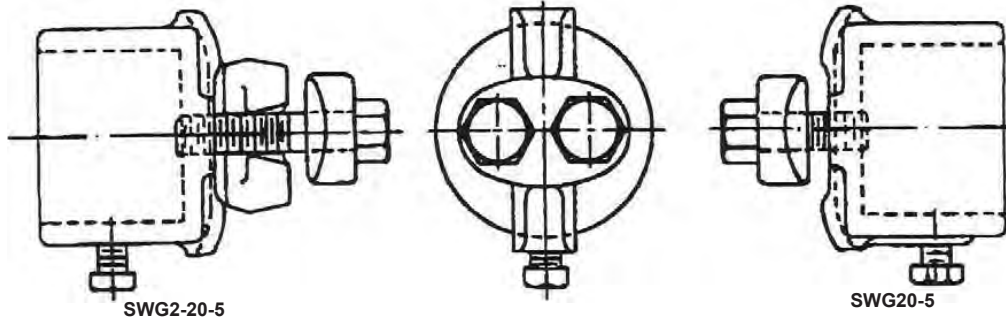
- SWGB-20-54 pole plate is mounted with one 5/8" bolt and two 1/2" lag screws
- SWG-20-5 end fitting clamps the strand
- SWG2-20-5 accommodates 2 guy wires
- The J0521 pole plate has four 9/16" holes for mounting with lag screws.
- The J0522 end fitting requires a J931 guy clamp which must be ordered separately. The 5/8 x 2-1/2" track bolt replaces one of the 'outer' bolts of the J931 guy clamp.

Material

Ductile iron hot dip galvanized



SWGB-20-54



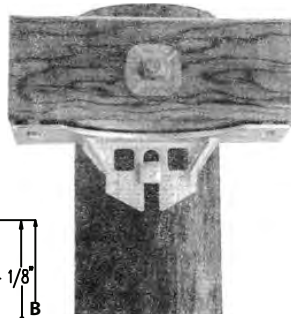
SWG2-20-5

SWG20-5

Catalog Number	Description	Wire Range	Pipe Size	Weight /100 (lbs)
SWG2-20-5	Double Clamp End Fitting	5/16" to 9/16"	2	500
SWG-20-5	Clamp End Fitting	1/4" to 9/16"	2	400
SWGB-20-54	Pole Plate		2	225
J0521	Pole Plate		2 & 2 1/2	495
J0522	Clamp Bolt End Fitting		2 & 2 1/2	350



Gains



Braceless Crossarm

Braceless crossarm gains improve the stability of the crossarm and eliminate the need for crossarm braces and pole gaining.

Features

- Design improves the structure appearance and permits the use of fiberglass, wood, steel channel or steel tubular arms
- Accommodates pole diameters from six inches to twelve inches
- Pole mounting slots are 13/16 inch wide on top and 11/16 inch on bottom

Material

Ductile iron hot dip galvanized

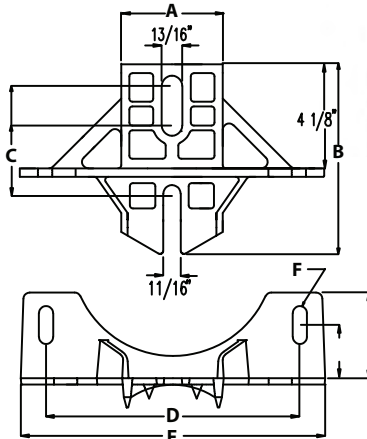


Figure 2

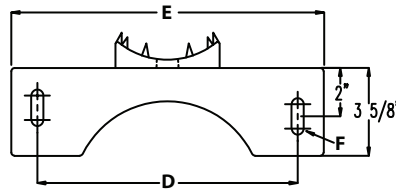
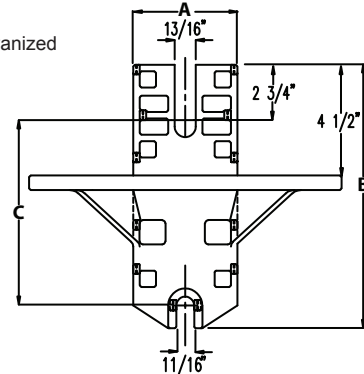


Figure 1



Catalog Number	Fig	Crossarm Range	A	B	C Slot Range	D	E	F	Weight /100 (lbs)
PX171	1	3 1/2 - 8"	4	11	7 1/4"	10	12	9/16 x 1 1/2	717
PX182A	2	4 1/2 - 6"	4	7 1/2	4 1/4 - 6"	10	12	9/16 x 1 1/2	480
PX182B	2	4 1/2 - 6"	4	7 1/2	4 1/4 - 6"	10	12	11/16 hole	485



Figure 1



Figure 2

Crossarm (with Shelf)

Crossarm gains with a shelf provide increased stability for crossarm installations to poles.

Features

- Integral teeth on the pole side
- Two separate hole positions for mounting the gain to the pole to enhance supporting the arm to the pole

Material

Ductile iron hot dip galvanized

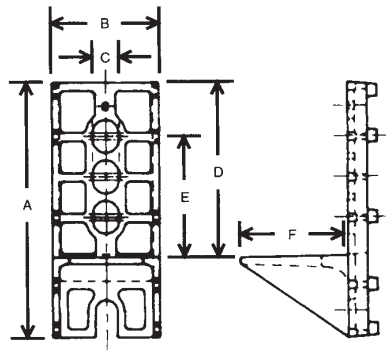


Figure 1

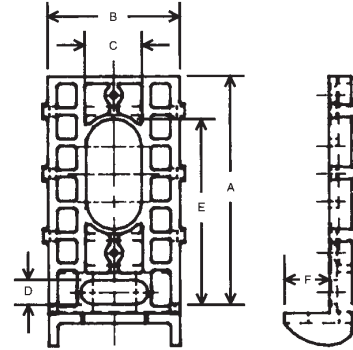


Figure 2

Catalog Number	Fig	Pole Dia. Range (in)	A	B	C	D	E	F	Weight /100 (lbs)
PX249G	1	8 - 12	9 1/2	4	1	6 1/2	4 1/2	4	470
PX249SG	1	8 - 12	13 1/8	4	1 1/16	10 1/8	5 3/8	6 1/2	1000
PX187	2	8 - 12	7 1/4	4	1 3/4	3/4	5 7/8	1 3/8	290



Gains

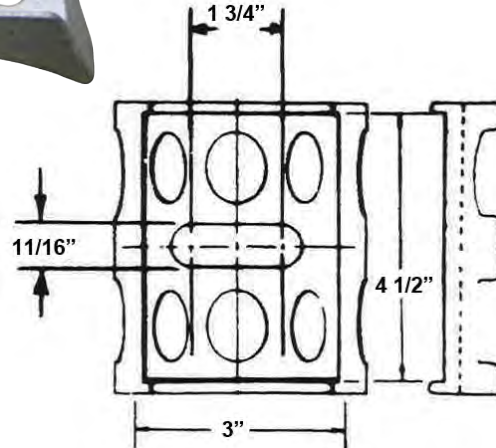
Grid

Features

- Teeth and integral ribs provide increased stability and resistance to movement both with and across the wood grain
- Strengthens bolt connections and helps resist slotting of the bolt hole by distributing the load over larger wood area
- Curved back provides smooth interface with large pole diameter range
- Flat side increases stability of mounted crossarms

Material

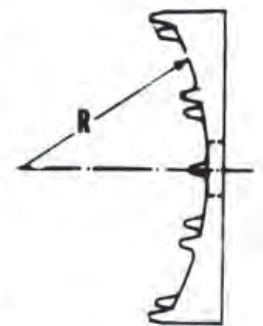
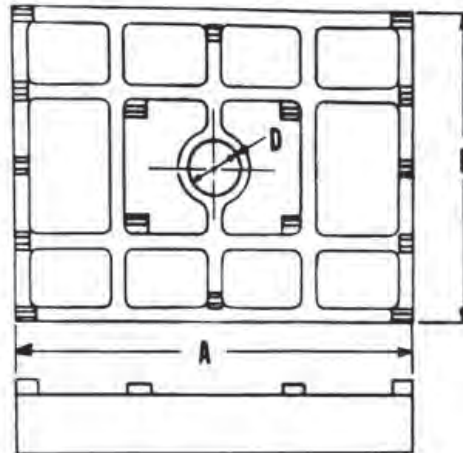
Ductile iron hot dip galvanized



Catalog Number	Pole Range	Bolt Dia. (in)	Crossarm Height	Weight /100 (lbs)
CAG-44-5	5 - 11"	5/8	4 1/2"	110

Notes:

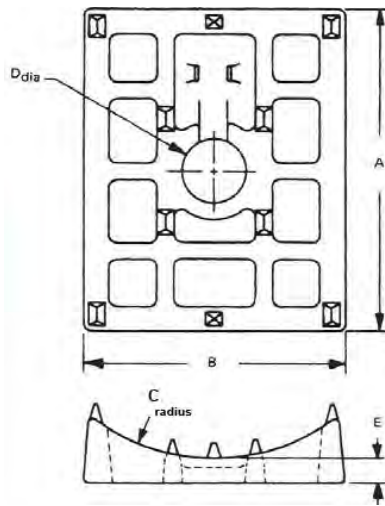
Crossarm height is a recommendation



Catalog Number	Pole Range	A	B	D	R	Weight /100 (lbs)
GGSF-4040-7	6 - 16"	4	4	15/16	3 1/2	200
GGSF-6640-7	6 - 15"	6 3/4	4 1/8	15/16	4 1/2	220
GGSF-5340-6	6 - 11"	5 5/16	4	13/16	3	200
GGSF-7052-7	10 - 16"	7	5 1/4	15/16	5	220
GGSF-7052-8	10 - 16"	7	5 1/4	1 1/16	5	220



Gains



Grid

Material
Aluminum alloy

Catalog Number	Pole Range	A	B	C	D	E	Weight /100 (lbs)
GSF-44-7	6 - 16"	4	4	3 1/2	15/16	5/16	64
GSF-54-6	6 - 16"	5	4	3	13/16	3/8	76
GSF-54-7	6 - 16"	5	4	3	15/16	3/8	73

Grid

Material
Ductile iron hot dip galvanized

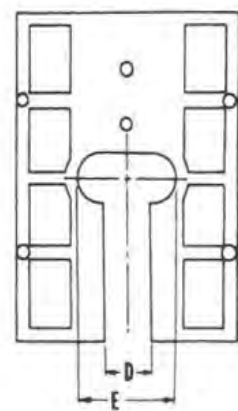
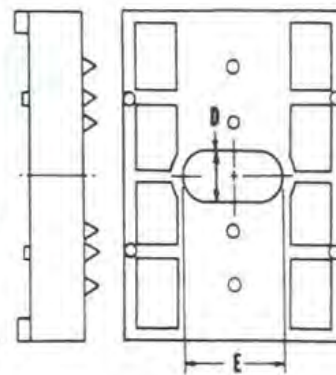
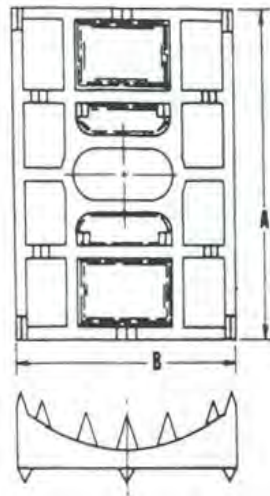


Figure 1

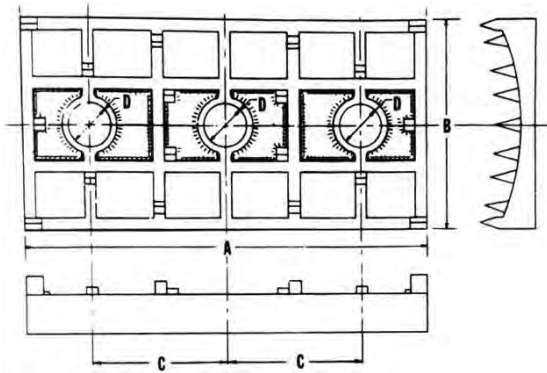
Figure 2

Catalog Number	Fig	Pole Range	A	B	D	E	Weight /100 (lbs)
GPA-43-6	1	6 - 11"	4	3	13/16	13/16	100
GPA-43-6T	2	6 - 11"	4	3	13/16	13/16	100
GPA-44-6	1	6 - 11"	4	4	13/16	13/16	120
GPA-54-6	1	6 - 11"	5	4	13/16	13/16	200
GPA-54-6T	2	6 - 11"	5	4	13/16	13/16	200

Notes:
Add suffix "T" for T-slot (open slot per illustration)



Gains



Grid

Material

Ductile iron hot dip galvanized

Catalog Number	Pole Range	A	B	C	D	Weight /100 (lbs)
GRF-9045-7	9 - 16"	9	4 1/2	3	15/16	300
GRF-1060-8LT	9 - 16"	10	6	3	1 1/16	730
GRF-1060-10LT	9 - 16"	10	6	3	1 5/16	700

Notes:

Suffix "LT" indicates less teeth

Grid

Material

Aluminum alloy

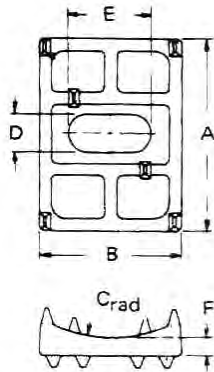


Figure 1

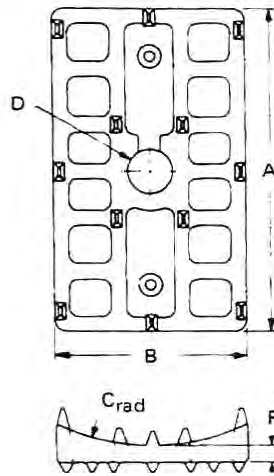


Figure 2

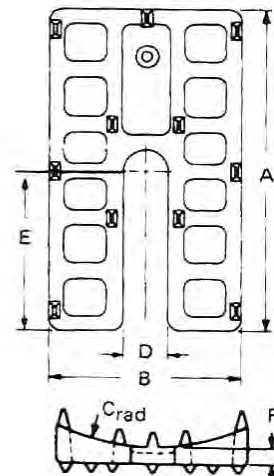
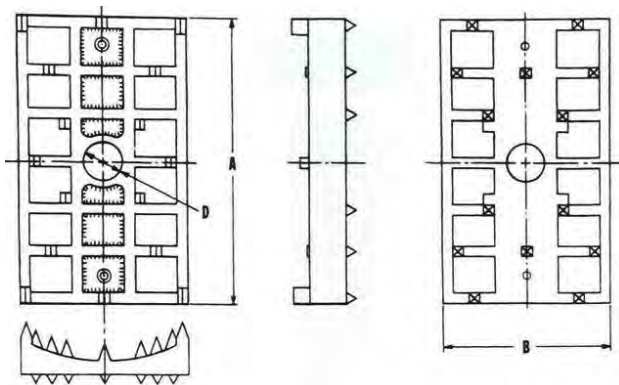


Figure 3

Catalog Number	Fig	Pole Range	A	B	C	D	E	F	Weight /100 (lbs)
CAG-44-6	1	6 - 11"	4	4	3 1/2	13/16	1 5/8	3/8	51
CAG-54-6T	3	6 - 11"	5 1/4	4	3	13/16	2 5/8	9/32	62
CAG-74-7	2	9 - 15"	6 3/4	4	4 1/2	15/16		3/8	90



Grid

Material

Ductile iron hot dip galvanized

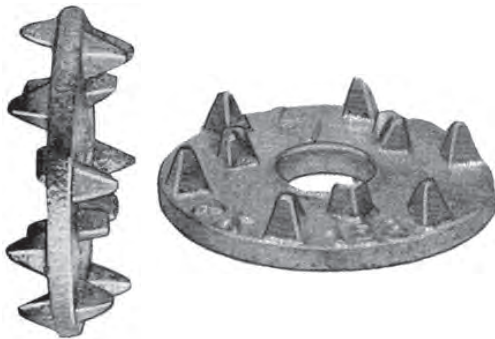
Catalog Number	Pole Range	Bolt Size (in)	A	B	D	Weight /100 (lbs)
GCA-74-7	6 - 11"	7/8	6 3/4	4	15/16	200

Notes:

Add suffix "B" for bond clip



Gains



Grid

Features

- Timber connectors resist slotting of the bolt hole in the transfer of loads and connection of two wood members
- The integral teeth penetrate into the wood to assist in distributing the load over a larger wood surface area than the bolt hole only

Material

Ductile iron hot dip galvanized

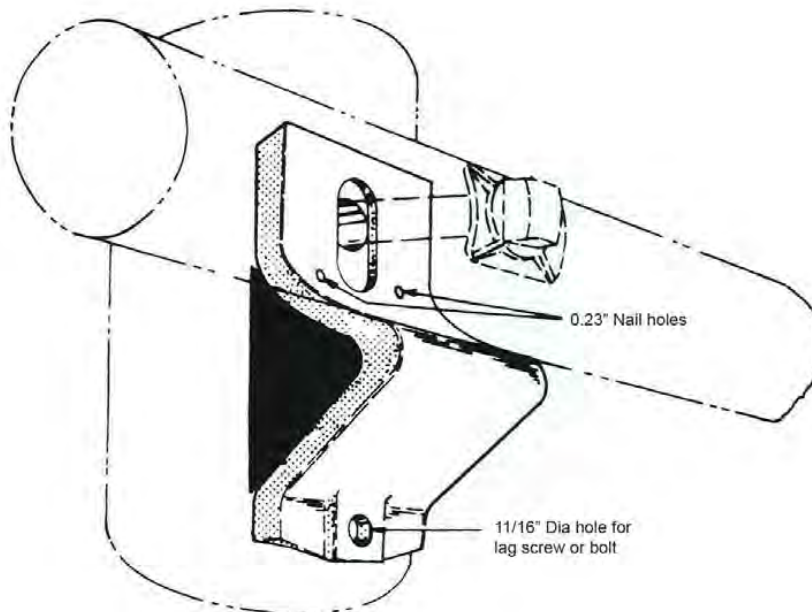
Catalog Number	Outside Dia.	Hole Dia.	Weight /100 (lbs)
PX156	2 1/2	11/16	40

Grid

For round / spar arm construction applications.

Material

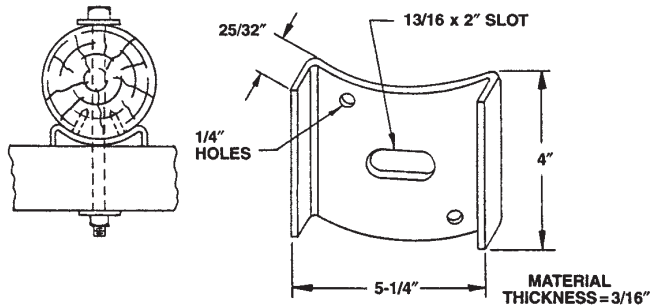
Ductile Iron hot dip galvanized



Catalog Number	Max Bolt Size	Crossarm Dia.	Weight /100 (lbs)
SABS-15	1"	6 - 12"	510



Gains and Guards



Pole

Pole gains are used where it is not possible or desirable to cut a gain in the pole.

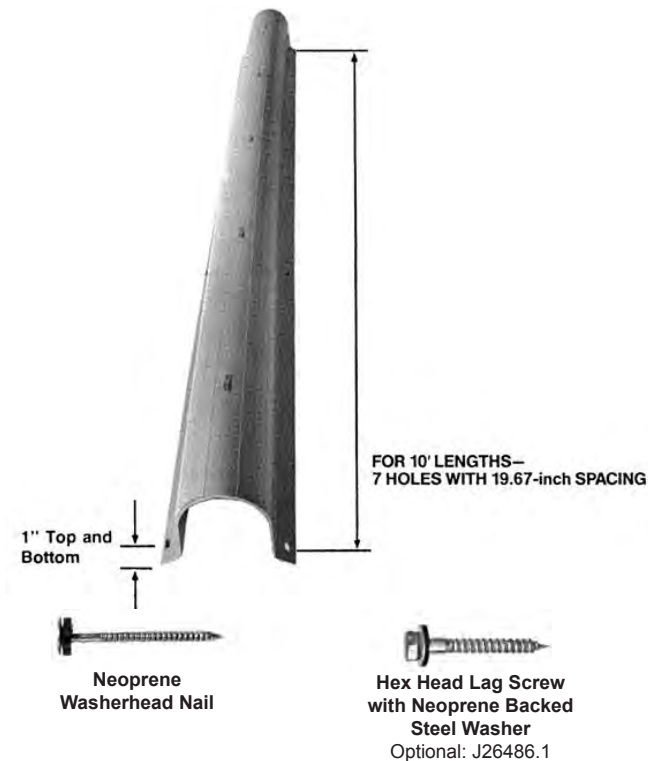
Features

- Enhance the stability of the crossarm and pole interface

Material

Formed steel hot dip galvanized

Catalog Number	Weight /100 (lbs)
J4060	140



Cable, Plastic

Plastic U cable guards are designed to nest over the one piece galvanized cable guard as required by many construction standards which call for a galvanized guard at the base and a plastic guard up the balance of the pole.

Features

- Strong, light weight, maintenance-free means of cable protection
- Nonconducting
- Can be cut to length in the field
- Guards are gray in color

Material

UV stabilized, high impact resistant PVC

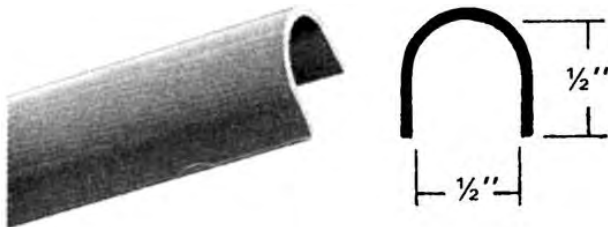
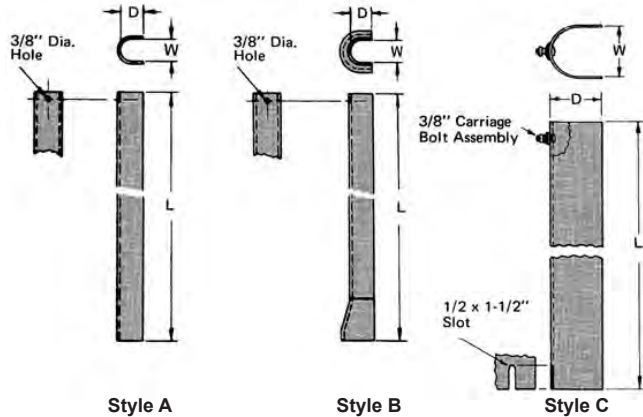
Catalog Number	Dimensions (I.D. x Length)	Weight /100 (lbs)
PGU210	2 x 10	6

Notes:

Can be mounted with furnished 1 1/2" x 10 ga. neoprene washerhead nails or optional 1/4 x 2" hex head lag screw with neoprene backed steel washer (catalog number J26486.1)



Guards



Cable, Steel

Cable guards are used to protect power and telephone cable at riser installations.

Features

- Offers maximum protection to cable against collisions and vandalism
- Inexpensive strap-mounted style uses lag screws to secure to pole
- Guards without frustrum can be used as extensions to attain any desired height on the pole
- Carriage bolt assembly is furnished on style "C" to fasten extensions and serve as a ground lead attachment

Material

Steel hot dip galvanized

Strap Mounted Guards							
Catalog Number	Style	Steel Gage	Length (ft)	Depth (in)	Width (in)	Strap	Weight /100 (lbs)
J985	A	14	5	1 1/8	1 1/8	J995	470
J984	A	14	8	1 1/8	1 1/8	J995	700
J991	B	14	8	1 5/16	1 1/4	J995	900
J987	A	14	8	2 3/16	2 3/16	J996	1340
J989	A	14	8	3 3/16	3 3/16	J997	2000
J23395.8	C	14	8	3 3/16	3 3/16	J997	1800

Straps				
Catalog Number	Steel Size	For Guard Width (in)	Mounting Hole Dia. (in)	Weight /100 (lbs)
J995	1/8 x 3/4	1 1/8 or 1 1/4	9/32	19.1
J996	1/8 x 3/4	2 3/16	9/32	31.0
J997	3/16 x 1	3 3/16	11/32	69.3

Ground Wire Molding, Plastic

Plastic ground wire molding provides strong, reliable protection of exposed ground wire.

Features

- Low maintenance, safety, handling ease and low cost
- Easily secured to the pole with available diamond point staples or square shank, barbed staples

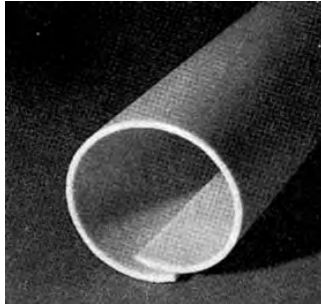
Material

Gray, high impact resistant, UV stabilized PVC

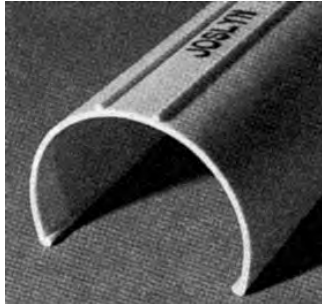
Catalog Number	Description	Weight /100 (lbs) /1000 ft
PM128	1/2" x 8' molding	50



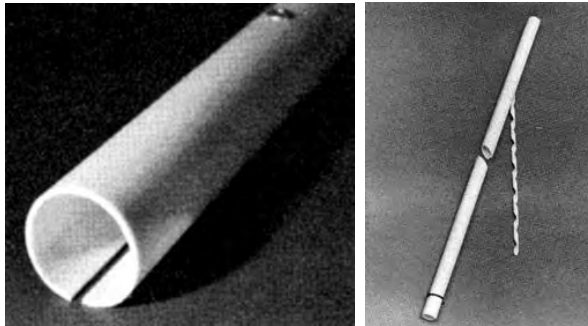
Guards



J1493Y



J1491Y and J1498Y



J5518 and J5718

Guy, Plastic

Provide a strong, highly visible, economical safeguard from exposed guy wires and anchor rods.

Features

- Ultraviolet stabilized for long life and resistant to fading

J1493Y Features

- 2" diameter full round design permits complete coverage of guy wire and anchor rod for maximum protection and improved visibility
- 3" long partial cutaway to facilitate installation of the galvanized bolted clamp assembly at one end
- The other end is secured by hand insertion of the one way, spiked plastic rivet

J1491Y & J1498Y Features

- 2 1/2" diameter, two-thirds round design provides excellent visibility and permits installation over anchor rods up to 1 1/4" diameter
- Four sets of holes are located along the guard to permit flexibility of mounting positions
- Bolted clamp assemblies or wire ties used for attachment methods

J5518 & J5718 Features

- Full round helical pigtail guards provide installation without the need for tools
- Utilize a 23" long helically formed polyethylene tie pigtail, which is wrapped around the guy strand to provide tool free installation to guy strands 3/16" to 1/2"
- Secured by a marine grade aluminum rivet positioned five feet above bottom of guard
- Bottom of guard includes one way locking nylon strap for additional installation security and resistance to unauthorized removal

Material

High-density, impact-resistant polyethylene or PVC

Catalog Number	Description	Attachment	Weight /100 (lbs)
J1493Y	8ft. yellow, Polyethylene	bolted clamp	240
J1491Y	8ft. yellow, PVC	3 bolted clamps	270
J1498Y	8ft. yellow, PVC	3 wire ties	190
J5518	8ft. yellow, PVC	helical tie	130
J5718	8ft. yellow, Polyethylene	helical tie	130



Guards

Tapered Guy, Steel

Full Round Features

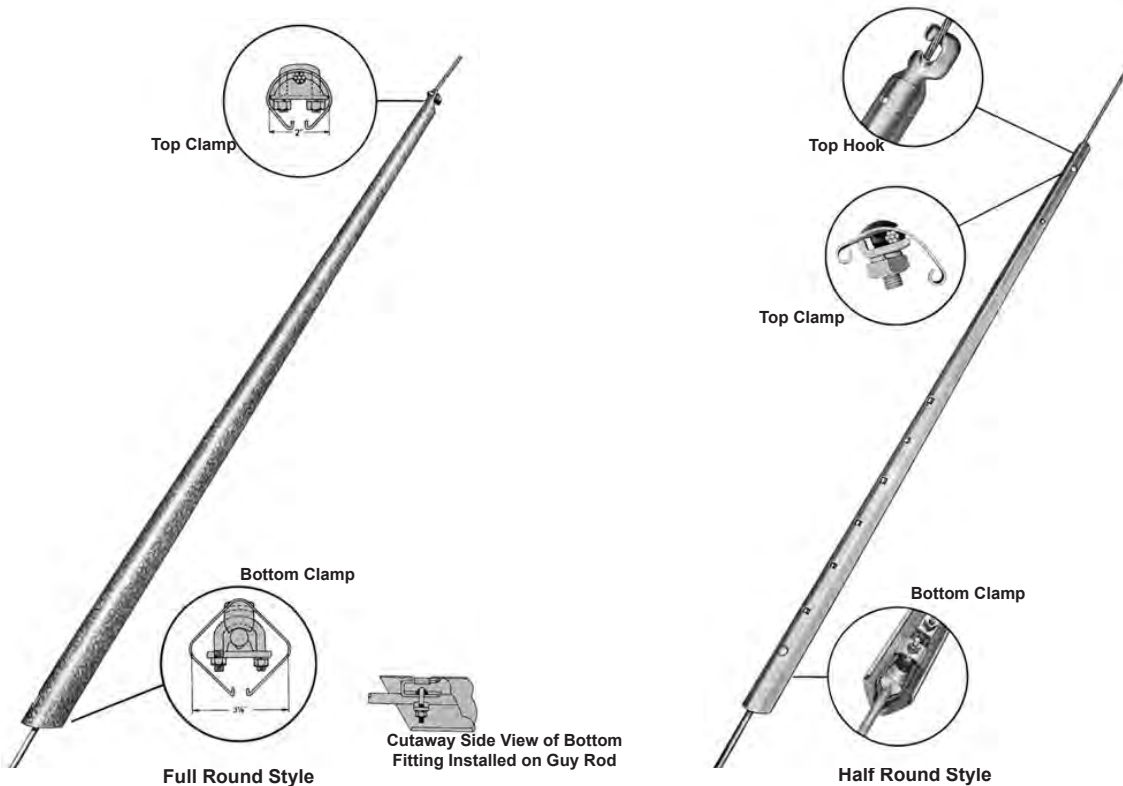
- Full round guards are provided with U-bolt clamps at both ends
- Bottom fitting clamps directly to the guy rod
- Slot near the base of the guard easily engages the tongue of the fitting
- Strand swivel type top clamp is installed without removing the nuts

Half Round Features

- Half round guards come with either a hook or clamp at the top
- Curved jaws of the heavy gauge steel hook tighten firmly on 1/4 - 9/16 " strand as the guard is brought down into position
- Two holes are available in the top clamp type, the lower of which is used on short sweep guys
- Seven holes in the lower portion of both styles allow for proper positioning of the bottom clamp to the strand

Material

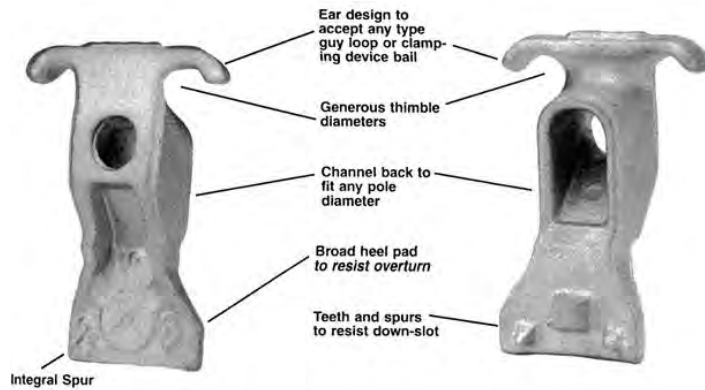
Steel hot dip galvanized



Catalog Number	Length	Style	Weight /100 (lbs)
J1448	8	Half round, top hook	950
J1528	8	Half round, top clamp	913
J1618	8	Full round	1350



Guy Attachments



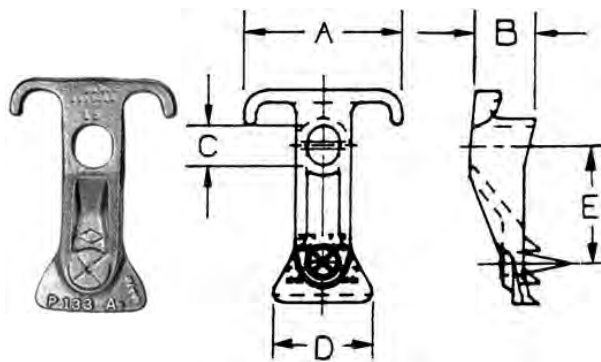
Guy Hooks

Features

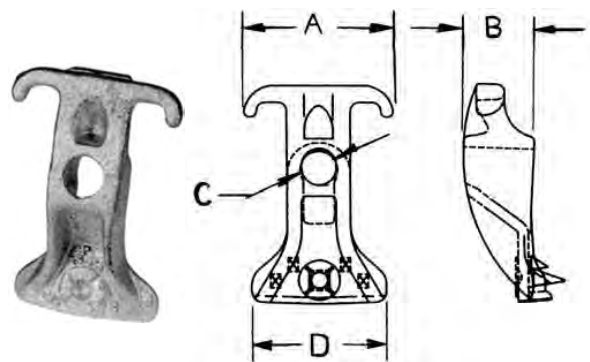
- Provide economical and efficient means of fastening guys to poles
- Well rounded wire grooves protect the strand from damage
- Wherever possible, installation should be made under the head of a machine bolt for down guy applications
- Guy hooks are not recommended to be mounted on the threaded end of a machine bolt
- Integral spur style for mounting with a through bolt only

Material

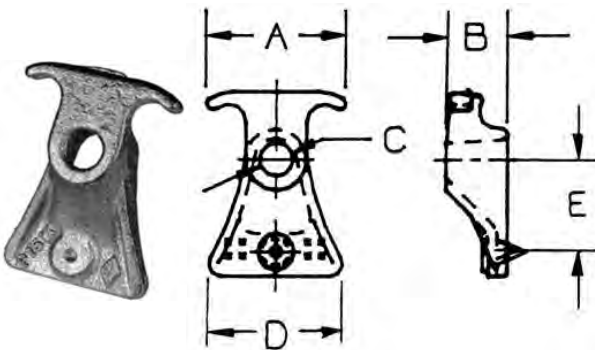
Ductile Iron - Hot Dip Galvanized



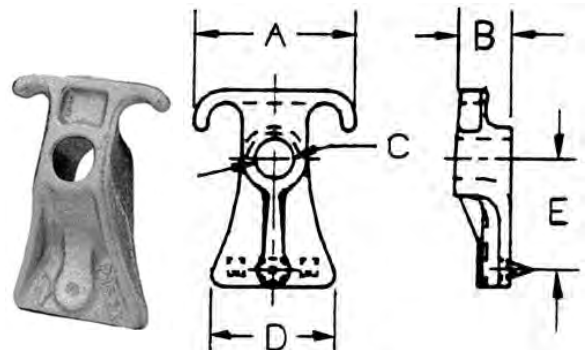
P133AX or P135AXW



P134AXW or P134BX



P151X or P152X



P157X

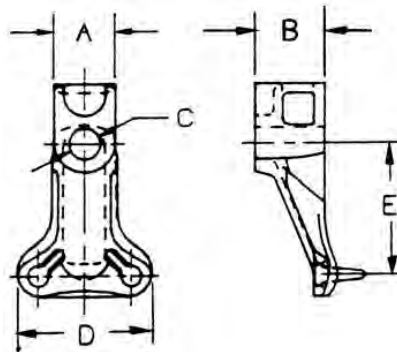
Catalog Number	Measurements (in)					Overall Length (in)	45° Ultimate Str. (lbs)	Weight /100 (lbs)
	A	B	C	D	E			
P133AX	3 15/16	1 5/8	13/16 x 1	2 1/2	2 7/8	5 1/2	20050	150
P134AXW	3 3/8	1 9/16	13/16 x 7/8	2 3/8	2 5/8	4 3/4	20050	128
P134BX	3 5/8	1 5/8	13/16 x 15/16	3 1/4	2 3/4	5 3/8	20050	177
P135AXW	3 1/8	1 1/2	11/16 x 3/4	2 1/8	2 1/2	4 1/2	13550	102
P151X	2 7/8	1 1/4	11/16	2 3/4	1 7/8	3 3/4	13550	95
P152X	3 1/8	1 3/8	13/16	2 3/4	2 3/8	4 1/4	20050	108
P157X	3 5/8	1 1/4	13/16	2 3/4	2 3/8	4 1/4	20050	96



Guy Attachments



P138



P138

Guy Hooks

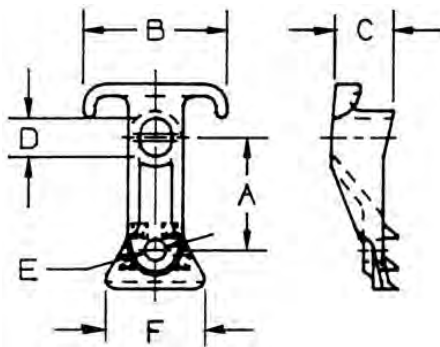
Features

- Provide economical and efficient means of fastening guys to poles
- Installation should be made under the head of a machine bolt for down guy attachments
- Guy hooks are not recommended to be mounted on the threaded end of a machine bolt
- Integral teeth in the bottom base eliminate the need for a lag screw in the base

Material

Ductile Iron - Hot Dip Galvanized

Catalog Number	Measurements (in)					Overall Length (in)	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
	A	B	C	D	E			
P138	1 13/16	1 13/16	15/16	4	3 7/8	6 1/4	27700	263



Guy Hooks

Features

- These guy hooks feature a base with integral teeth
- Hole for installation of a 1/2" diameter lag screw provides additional resistance to movement

Material

Ductile Iron - Hot Dip Galvanized

Catalog Number	Measurements (in)						Overall Length (in)	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
	A	B	C	D	E	F			
P133A	2 7/8	3 5/8	1 5/8	13/16	9/16	2 1/2	5 1/4	20050	152
P135A	3 1/2	3 3/4	7/16	11/16	9/16	2 1/2	4 3/4	13550	128



Guy Attachments



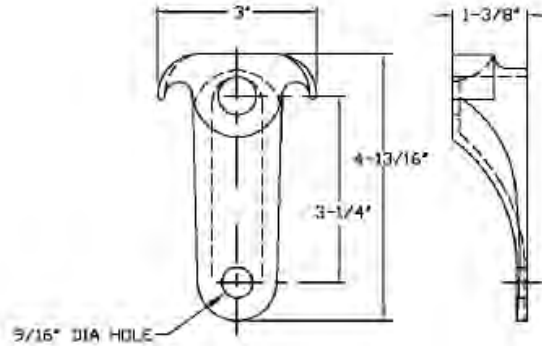
Guy Hooks

Features

- These guy hooks feature a base with integral teeth
- Hole for installation of a 1/2" diameter lag screw provides additional resistance to movement

Material

Ductile Iron - Hot Dip Galvanized

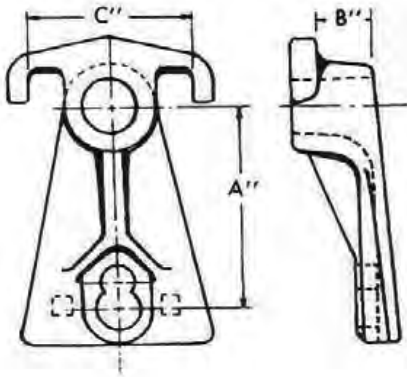


Catalog Number	Max Wire Dia	Bolt Hole Dia	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
J6555	1/2	11/16	13550	105
J6556	9/16	13/16	20050	120

Guy Hooks

Material

Ductile Iron - Hot Dip Galvanized



Catalog Number	Max Wire Dia	Measurements (in)				Mounting Bolts		Min Ultimate Strength	Weight /100 (lbs)
		A	B	C	R	Top	Bottom		
G764X2	3/4	4	1	3 7/16	7/8	7/8 or 3/4	5/8 to 3/4	25000	80
G864X2	3/4	4	1	3 7/16	7/8	7/8 or 1	1/2, 5/8 or 3/4	25000	200



Guy Attachments

Guy Hooks

Features

- Corrosion resistant aluminum alloy with integral teeth in the base bottom to resist movement

Material

Aluminum alloy

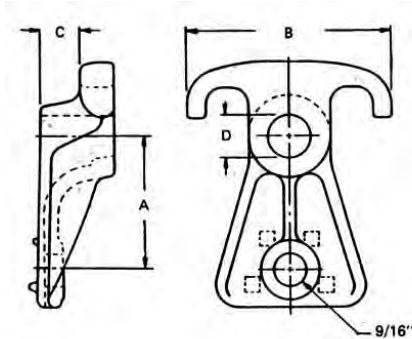


Figure 1

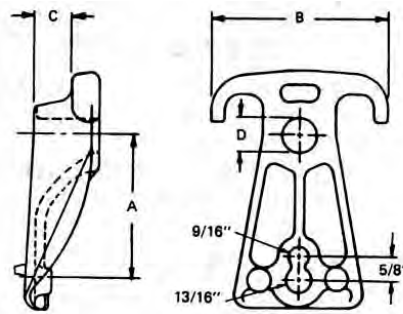


Figure 2

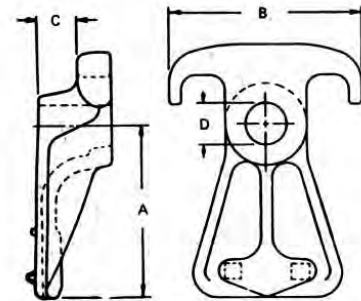


Figure 3

Catalog Number	Fig	Max Wire Dia	Measurements (in)				Mounting Bolts		Min Ultimate Strength (lbs)	Weight /100 (lbs)
			A	B	C	D	Top	Bottom		
AG-5	1	7/16	2 1/4	3 1/4	5/8	11/16	5/8	1/2	12400	38
AG-5X	3	7/16	2 7/8	3 1/4	5/8	11/16	5/8		12400	39
AG-6	1	1/2	2 1/4	3 7/16	11/16	13/16	3/4	1/2	18350	30
AG-6X	3	1/2	3 1/2	3 5/8	7/8	13/16	3/4		18350	61
AG-7	2	3/4	4	4 7/8	1	15/16	7/8	3/4	25400	109

Notes:

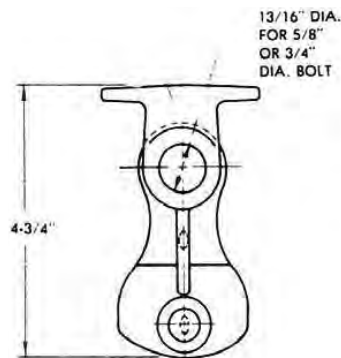
Figure 2 - 1/2" lag screw or 3/4" through bolt may be used in bottom hole if desired

Guy Hooks

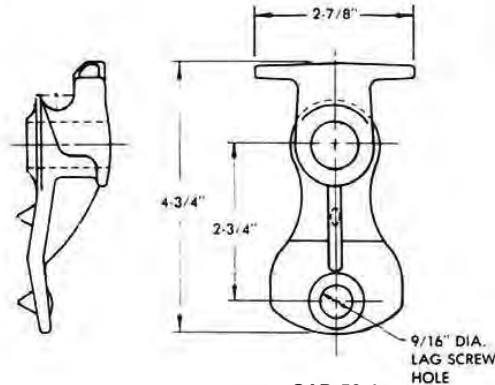
For use with formed guy grips, "bail type" automatic deadends, and "bail type" wirevise deadends. Ultimate Strength 20,050 lbs at 45 degree guy angle.

Material

Ductile Iron - Hot Dip Galvanized



GAD-56-X



GAD-56-4

Catalog Number	Bolt Hole Dia	Weight /100 (lbs)
GAD-56-X	13/16	100
GAD-56-4	13/16	100

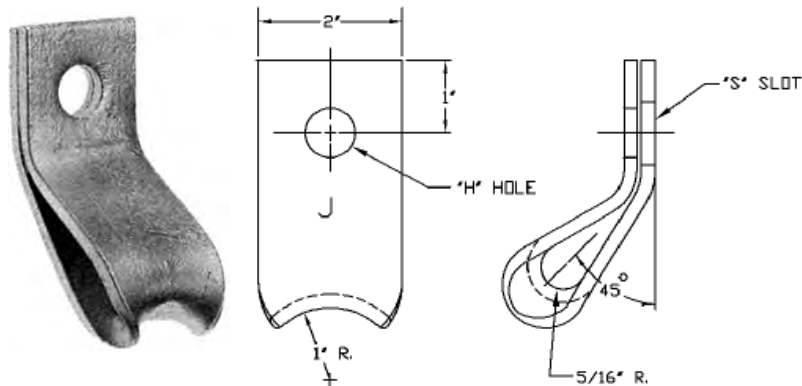


Guy Attachments

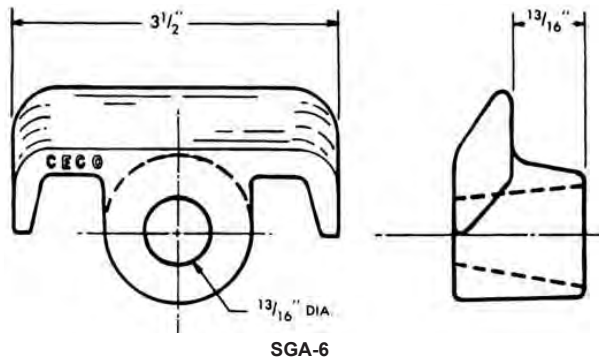
Guy Hooks

Material

Formed steel hot dip galvanized



Catalog Number	Steel Size	Bolt Hole Dia	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
J25164	2 x 3/16	11/16	10000	113



SGA-6

Guy Hooks

Material

Ductile iron hot dip galvanized

Catalog Number	Max Wire Dia	Bolt Hole Dia	Thimble Diameter	Weight /100 (lbs)
SGA-6	1/2	5/8 or 3/4	1 1/2	54



J1019

Guy Hooks

Two J1019 guy hooks are normally mounted on opposite sides of a pole under two turns of guy strand to prevent the strand from slipping on the pole. The rounded side of the 1/4 x 3/8" half oval steel prevents damage to the guy strand and its galvanized coating.

Material

Steel hot dip galvanized

Catalog Number	Bolt Hole Dia	Weight /100 (lbs)
J1019	11/16	80



Guy Attachments

Multiple combination

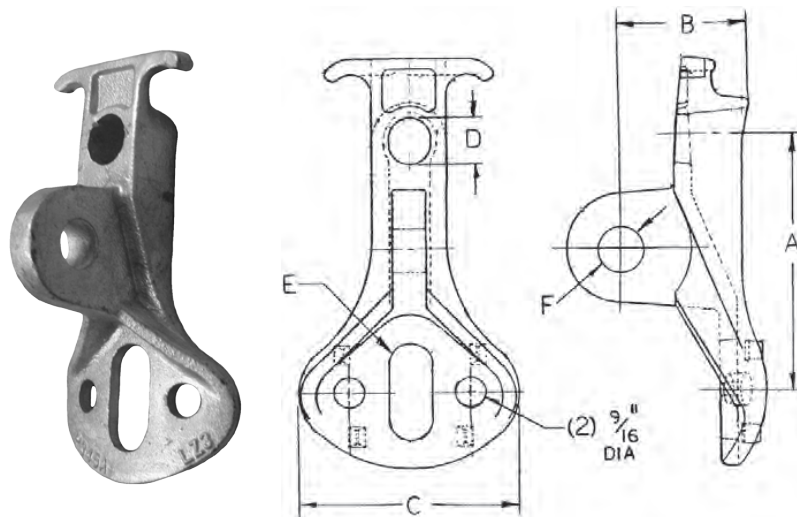
Combination type guy attachments provide flexibility to terminate guy wire or fiberglass guy strain insulators

Features

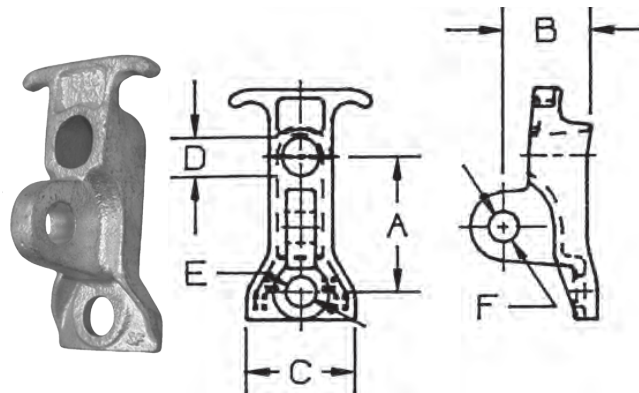
- More surface in contact with pole than other comparable guy attachments
- Greater protection to wood fibers

Material

Ductile iron hot dip galvanized



Catalog Number	A	B	C	D	E	F	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
P345A	4 1/2	2 1/8	4	13/16	7/8 x 1 3/4	13/16	21000	295



Catalog Number	A	B	C	D	E	F	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
MGA-345	3	2	2 7/8	13/16	11/16	11/16	21000	145
MGA-345-N	3	2	2 7/8	13/16	11/16	11/16	21000	145
MGA-345-6	3	1 3/8	2 7/16	13/16	11/16	13/16	21000	145
MGA-345-6N	3	1 3/8	2 7/16	13/16	11/16	13/16	21000	145

Notes:

Suffix "N" indicated no teeth and is for use on steel or concrete poles



Guy Attachments

Multiple Combination

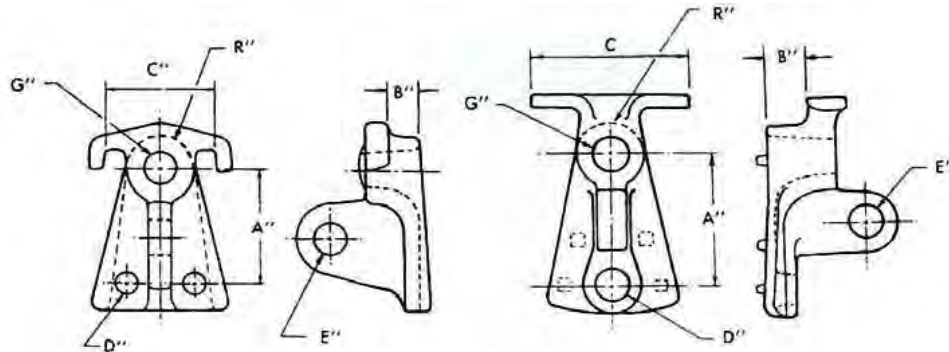
Combination type guy attachments provide flexibility to terminate guy wire or fiberglass guy strain insulators

Features

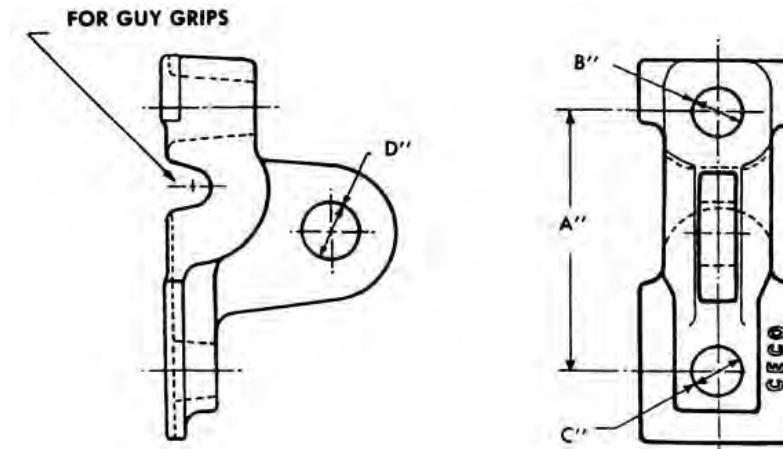
- For use on round or flat surfaces

Material

Ductile iron hot dip galvanized



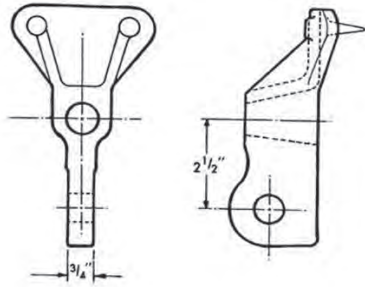
Catalog Number	Fig.	A	B	C	D	E	G	R	45°; Ultimate Str. (lbs)	Weight /100 (lbs)
MGA-5	1	2 7/16	5/8	2 5/8	9/16	11/16	11/16	1 3/8	15000	100
MGA-345-A	2	4	5/8	4	11/16	13/16	13/16	1 1/2	21000	275



Catalog Number	A	B	C	D	Max Cable Dia (in)	Min Ultimate Strength (lbs)	Weight /100 (lbs)
UGA-65-3	3	13/16	11/16	11/16	7/16	15000	140
UGA-66-4	4	13/16	13/16	13/16	1/2	21000	255
UGA-66-6	6	13/16	13/16	15/16	9/16	35000	510
UGA-77-6	6	15/16	15/16	15/16	9/16	35000	510
UGA-77-7	6	15/16	15/16	15/16	9/16	35000	510
UGA-77-9	6	15/16	15/16	1 3/16	9/16	35000	510
UGA-88-8	6	1 1/16	1 1/16	1 1/16	9/16	35000	510



Guy Attachments



Pole Eye Plates

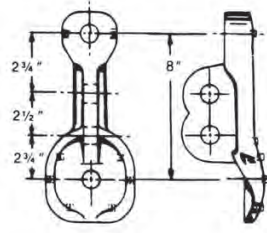
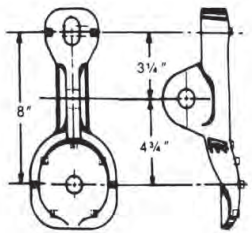
Pole eye plate attachments are used with fiberglass guy strain insulators or thimble clevises in guying or deadending applications.

Material

Ductile iron hot dip galvanized



Catalog Number	Max Clevis Pin (in)	Mounting Bolts (in)	Angle (°)	Min Ultimate Strength (lbs)	Weight /100 (lbs)
PE-7X2	3/4	3/4 - 7/8	10 - 90	21000	350



Pole Eye Plates

Material

Ductile iron hot dip galvanized

Catalog Number	Fig	Max Clevis Pin (in)	Angle (°)	Min Ultimate Strength		Weight /100 (lbs)
				45°	90°	
EPR-8777	1	7/8	10 - 90	42000	36000	950
EPR-877-D7	2	7/8	10 - 90	42000	36000	1100



Figure 1

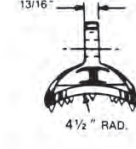
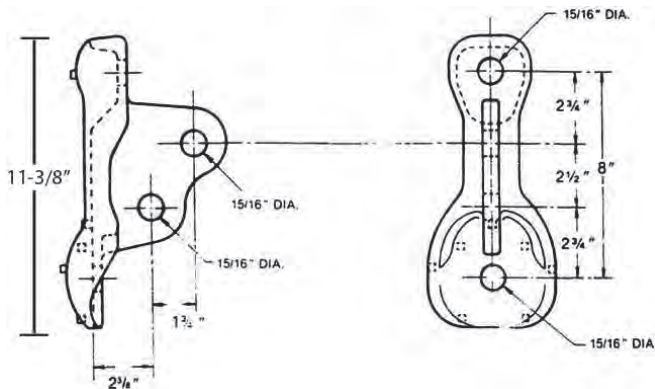


Figure 2

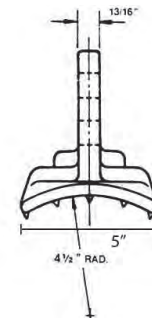
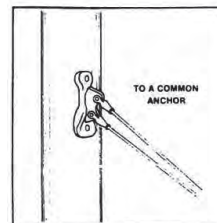


Pole Eye Plates

Material

Ductile iron hot dip galvanized

Catalog Number	Back Surface	Ratings		Maximum Pin Diameter	Weight /100 (lbs)
		45°	90°		
EPR 877-D7RE	with teeth	42000	36000	7/8	1100
EPR 877-D7RE-LT	less teeth	42000	36000	7/8	1100





Guy Attachments

Pole Eye Plates

Pole eye plate attachments are used with fiberglass guy strain insulators or thimble clevises in guying or deadending applications.

Material

Ductile iron hot dip galvanized

Catalog Number	A	B	C	D	Min Ultimate Strength (lbs)	Weight Ea (lbs)
GE-66	1/2	2 3/4	13/16	13/16	15000	1

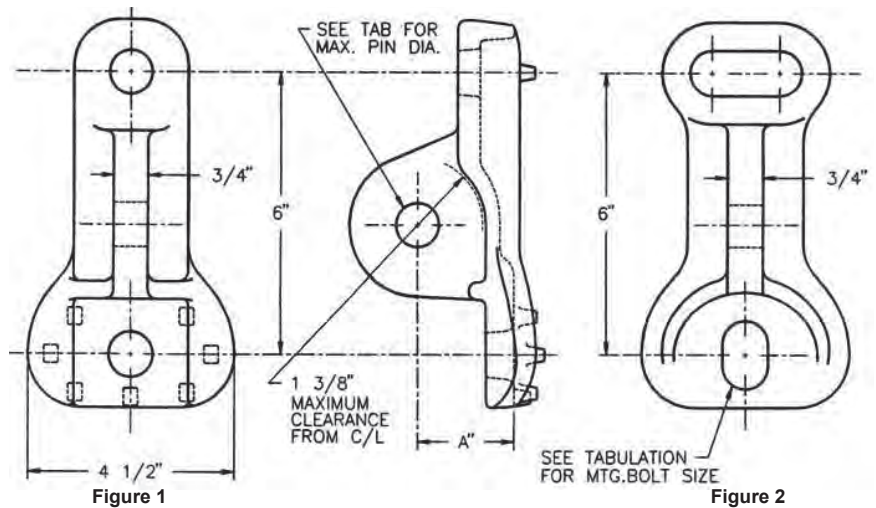
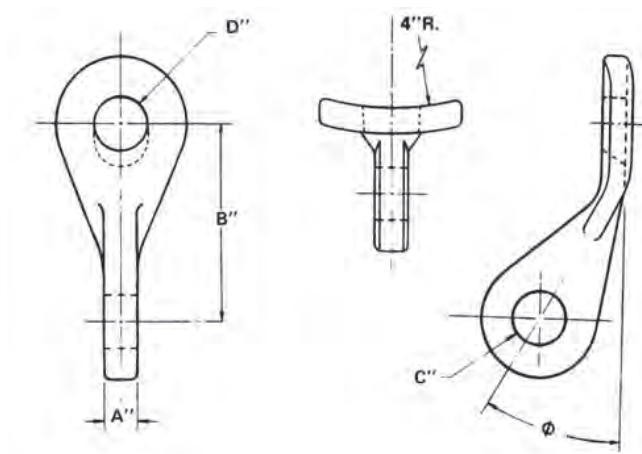


Figure 1

Figure 2

Catalog Number	Fig	A	Max Clevis Pin (in)	Mounting Bolts	Mounting Holes		Min Ultimate Strength		Weight /100 (lbs)
					Top	Bottom	45°	90°	
EPR-66S-7	2	1 7/8	7/8	5/8 - 3/4	Slot-Horiz	Slot-Vert	36000	30000	600
EPR-66S-10	2	1 7/8	1 1/4	5/8 - 3/4	Slot-Horiz	Slot-Vert	36000	30000	600
EPR-66S-12	2	1 7/8	1 1/2	5/8 - 3/4	Slot-Horiz	Slot-Vert	36000	30000	600
EPR-77-7	1	2 1/8	7/8	3/4 - 7/8	Hole	Hole	42000	36000	600
EPR-77A-7	2	2 1/2	7/8	3/4 - 7/8	Hole	Slot-Vert	42000	36000	600
EPR-77S-7	2	1 7/8	7/8	3/4 - 7/8	Slot-Horiz	Slot-Vert	42000	36000	600
EPR-77-10	1	2 1/8	1 1/4	3/4 - 7/8	Hole	Hole	42000	36000	600

Notes:

For attachment without cleats, add suffix "LT" to catalog number



Guy Attachments



Pole Eye Plates

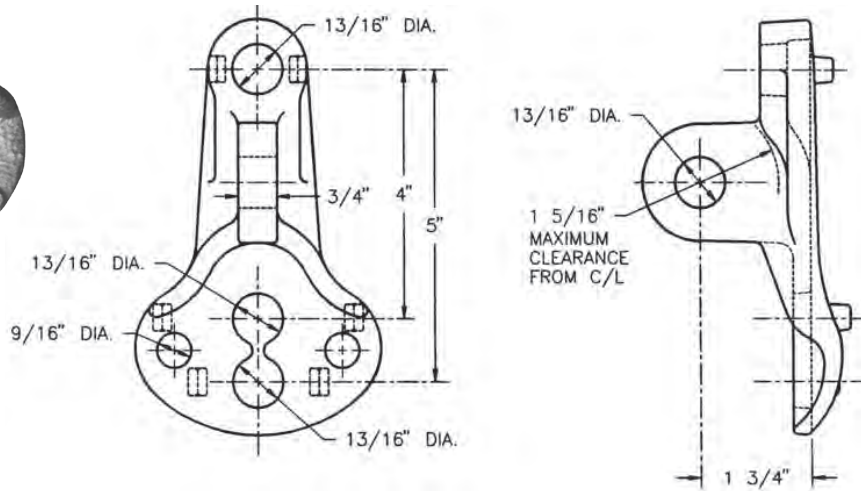
Pole eye plate attachments are used with fiberglass guy strain insulators or thimble clevises in guying or deadending applications.

Features

- Wide variety of mounting hardware options
- Bottom mounting base will accommodate an additional 3/4" diameter through bolt or two 1/2" diameter lag screws
- Includes integral spurs to resist movement

Material

Ductile iron hot dip galvanized

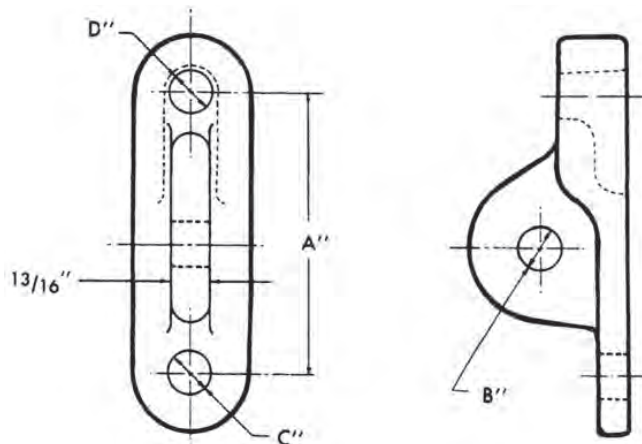


Catalog Number	Max Clevis Pin (in)	Angle (°)	Min Ultimate Strength (lbs)	Weight /100 (lbs)
PEP-66-45	3/4	10 - 90	21000	220

Pole Eye Plates

Material

Ductile iron hot dip galvanized



Catalog Number	A	B	C	D	Max Clevis Pin (in)	Angle (°)	Min Ultimate Strength		Weight /100 (lbs)
							45°	90°	
EPF-88-7	6	15/16	1 1/16	1 1/16	7/8	10 - 90	45000	40000	800
EPF-88-8	6	1 1/16	1 1/16	1 1/16	1	10 - 90	45000	40000	800



Guy Attachments

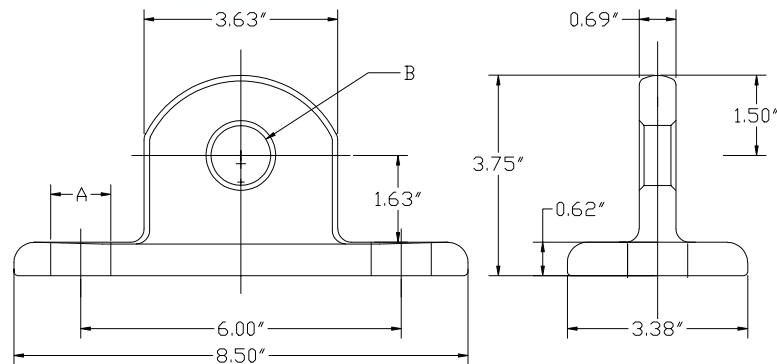
Deadend Tee

Features:

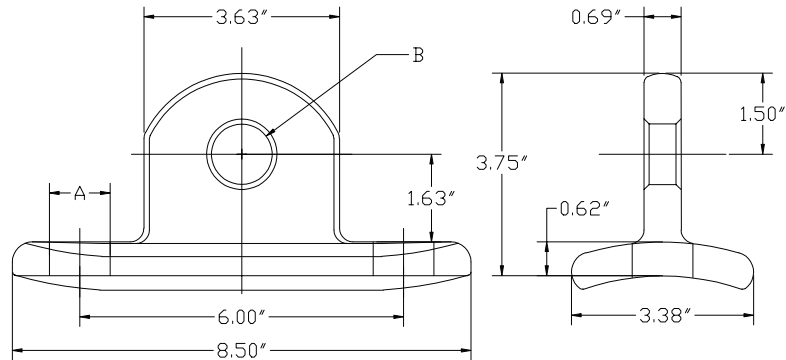
- Available with either flat mounting base (DET series) or curved mounting base (DETR series)
- Used for high strength, pole connection interface to clevises, thimble clevises, insulators, shackles and other deadend attachments.
- For use on wood, steel, concrete or fiberglass poles

Material

Steel - Hot Dip Galvanized



Catalog Number	Dimensions		Ultimate Strength	Weight /100 lbs
	A	B		
DET60K-79	15/16"	1-1/4"	60,000	565
DET60K-88	1-1/16"	1-1/8"	60,000	565



Catalog Number	Dimensions		Ultimate Strength	Weight /100 lbs
	A	B		
DETR60K-67	13/16"	15/16"	60,000	565
DETR60K-88	1-1/16"	1-1/8"	60,000	565



Guy Kits



Guy Kits

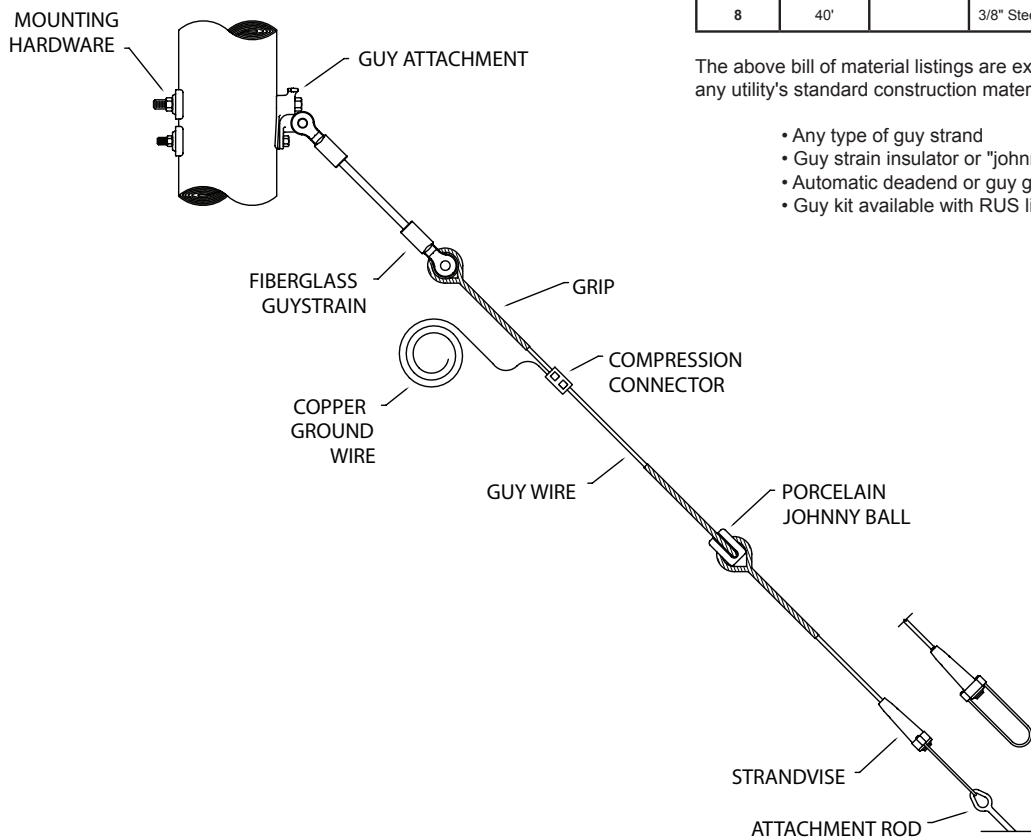
Preassembled kit of down guy materials

SAMPLE Guy Kit Bill of Material

MPS Part Number: U105423			
Item	Qty.	Catalog Number	Description
1	1	GDE1107	Grip for 3/8" EHS
2	1	5202	Strandvise™ 3/8" EHS
3	1	PEP66-45	Pole Eye Plate
4	2	J8584	3/4" Locknut
5	2	CW467	4" x 6" Curved Washer
6	2	J8912	3/4" x 12" Machine Bolt
7	1	GCC1536R	Fiberglass Guy Strain Insulator*
8	40'		3/8" Steel EHS Guy Wire

The above bill of material listings are examples only. MPS will match any utility's standard construction materials.

- Any type of guy strand
- Guy strain insulator or "johnny ball"
- Automatic deadend or guy grip
- Guy kit available with RUS listed material



MPS can customize each guy kit to comply with local construction / material specifications, including assemblies that call for fiberglass guy strain insulators, guy grips, clevis-thimble or "johnny ball." All material is easy to handle and ready to install in one complete kit.



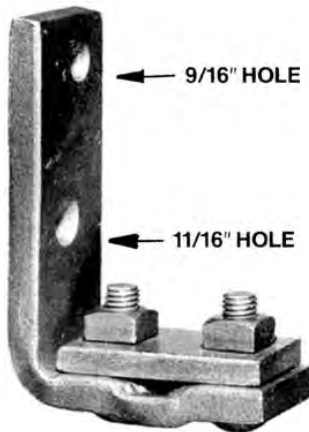
Bottom Deadend and Hardware
Tie-Wrapped to Guy Kit



Top Deadend Pre-Assembled



Hangers



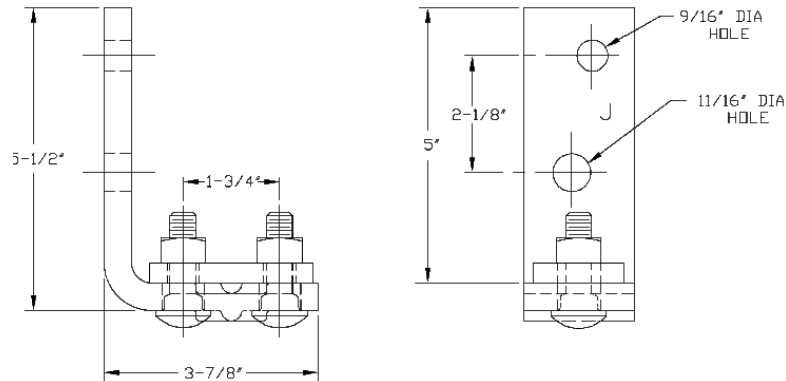
Messenger

Features

- Hot formed from 1/2" x 2" steel
- Specially curved groove which permits its use on corners as well as on straight runs
- Two 1/2" high carbon steel track bolts clamp the strand
- Mounting holes are 9/16" and 11/16" in diameter for a 1/2" lag screw and 5/8" through bolt

Material

Steel hot dip galvanized



Catalog Number	Messenger Dia Range	Weight /100 (lbs)
J1070	1/4 - 3/8"	325



Hooks



J3316P



J3318

Service, Drop Wire

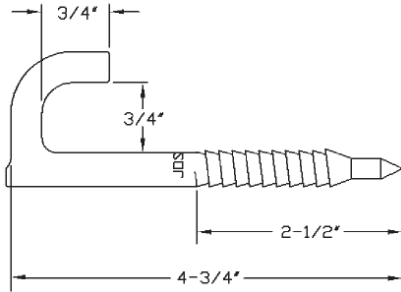
Full line of hooks for supporting bail-type drop wire and deadend clamps from poles and crossarms

Features

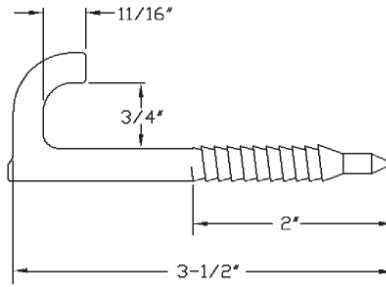
- J3316P and J3318 drive hooks have rolled fether drive threads and a pilot point for easy starting
- J8245, complete with square nut, bolts through the side of a wood crossarm for deadending telephone services

Material

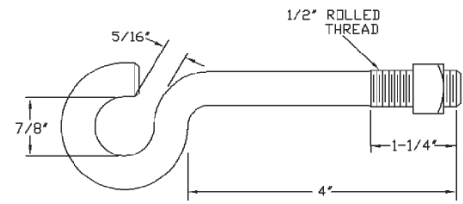
Steel hot dip galvanized



J3316P



J3318



J8245

Catalog Number	Size (in)	Weight /100 (lbs)
J3316P	7/16 x 4 3/4 FD	27.0
J3318	5/16 x 3 1/2 FD	11.6
J8245	1/2 x 5 3/4	42.0

Service, Drop Wire

Features

- Can be used at the pole or building end of a duplex or triplex service drop
- Breaking strength of hook exceeds 2000 lbs

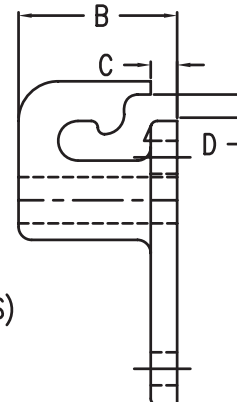
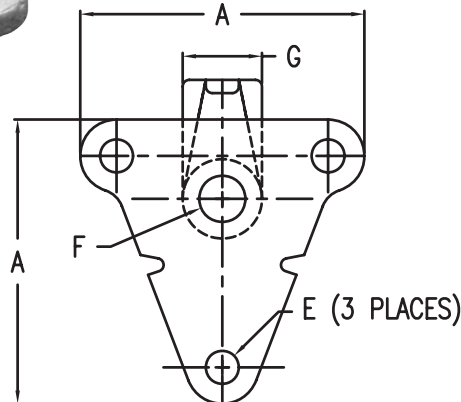
Material

U2395:

Aluminum

U2398:

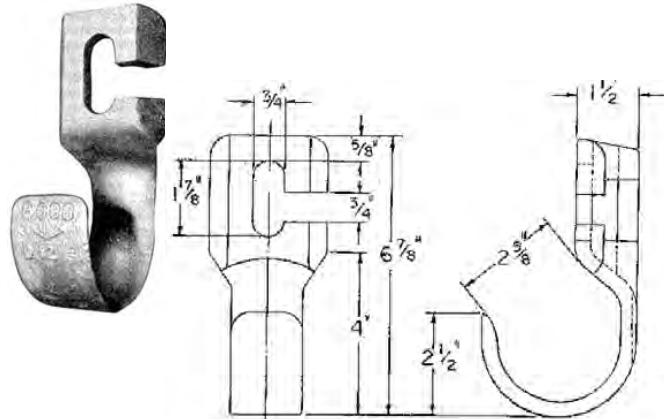
Ductile iron hot dip galvanized



Catalog Number	A	B	C	D	E	F	G	Weight /100 (lbs)
U2395	2.688	1.5	0.25	0.25	0.312	0.438	0.75	20
U2398	2.688	1.5	0.25	0.25	0.312	0.438	0.75	55



Hooks and Insulators



Placing, Type B

The type B placing hook is used as a stringing tool to facilitate the installation of a figure 8 cable.

Features

- The hollow base of the hook permits installation over the nut and washer of the through bolt
- The horizontal slot of the hook allows the hook to be removed for re-use after the cable is secured to the cable suspension clamp and thru bolt
- The hook can remain installed between the pole and the cable suspension clamp

Material

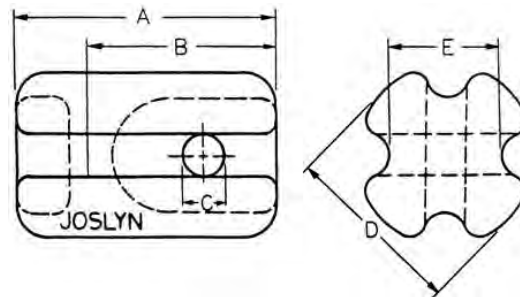
Steel hot dip galvanized

Catalog Number	Mounting Bolt Dia	Weight /100 (lbs)
P338	5/8	215



Guy Strain

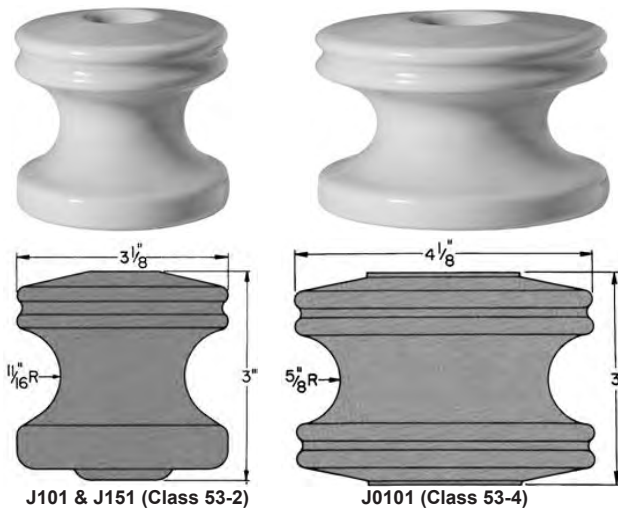
Material
Porcelain



Catalog Number	Max Cable Dia (in)	A	B	C	D	E	Rated Ultimate Strength (lbs)	Max Work Load (lbs)	Weight /100 (lbs)
L502	3/8	3 1/2	2 5/8	5/8	2 1/2	1 3/4	10000	5000	120
L504	1/2	4 1/2	3 1/4	7/8	2 7/8	2 1/8	12000	6000	170
L506	5/8	5 1/2	4 5/16	1	3 3/8	2 3/8	20000	10000	290

Notes:

- 1) Typical system voltage: L502 (2.2); L504 (4.4); L506 (6.6)
- 2) Horizon glaze (light gray) is standard color



Spool

Material
Porcelain

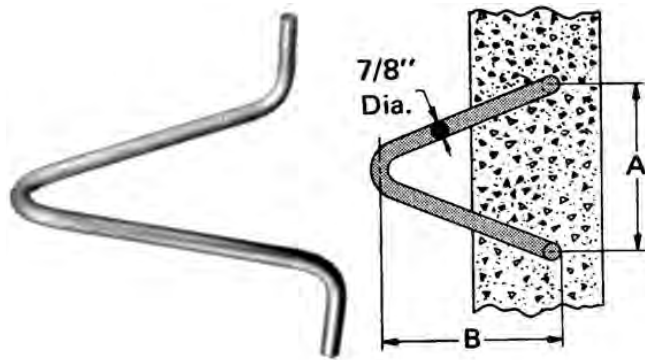
Catalog Number	Insulator Type	Bolt Dia (in)	Weight /100 (lbs)
J101	Dry Process	5/8	116
J151	Wet Process	5/8	120
J0101	Wet Process	5/8	256

Notes:

Horizon glaze (light gray) is standard color



Irons and Links



Pulling-In Iron

Pulling-In irons are set into the concrete or brick walls of street vaults opposite all duct entrances to provide strong, convenient attachment for pulling-in blocks for installing or removing cables.

Features

- Designed to straddle one brick

Material

7/8" diameter steel hot dip galvanized

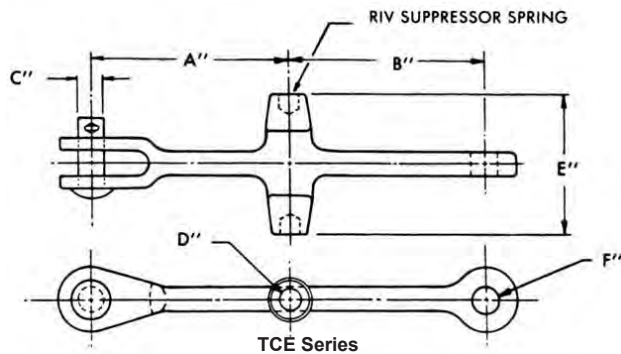
Catalog Number	A	B	Weight /100 (lbs)
J8119	8 3/8	9	490
J8120	11	13 5/16	600

Extension Link

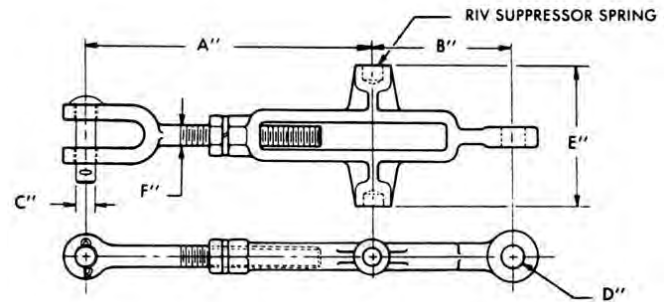
Extension links for trunnion mounting brackets are used for attachment points for deadend insulators and clamps.

Material

Casting: Ductile iron hot dip galvanized
Hardware: Steel hot dip galvanized
Cotter Key: Stainless Steel



TCE Series



TCEA Series

Catalog Number	A	B	C	D	E	F	G	Min Ultimate Strength (lbs)	Weight /100 (lbs)
TCE-84	8	4	5/8	19/32	3 7/8	11/16	11/16	15000	300
TCE-166	16	6	5/8	19/32	3 7/8	11/16	11/16	15000	400
TCEA-84	7 - 9 1/2	4	5/8	11/16	3 7/8	3 7/8	5/8	15000	300



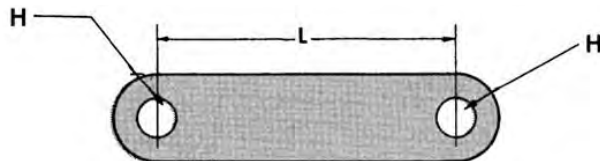
Extension Link

Features

Ultimate tensile strength 20,000 lbs

Material

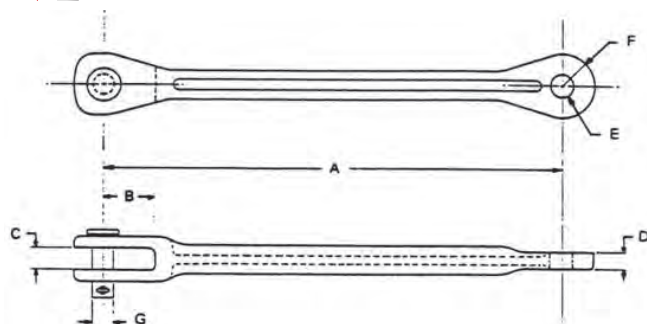
Steel hot dip galvanized



Catalog Number	Steel Size	L	H	Weight /100 (lbs)
J2520	1/2 x 1 3/4"	6	13/16	176



Links



Catalog Number	A	B	C	D	E	F	G	Min Ultimate Strength (lbs)	Weight/ 100 (lbs)
LCE-14	14	1 1/2	11/16	1/2	11/16	31/32	5/8	12500	116

Extension

Extension links provide clearance from the pole or crossarm to the insulator string at deadend installations.

Material

Casting: Aluminum alloy
Hardware: Steel hot dip galvanized
Cotter Key: Stainless Steel



Extension

Extension links are used at deadends and corner structures to set the insulator string out from the pole or crossarm to provide more climbing space.

Each link is made from two pieces of 1-1/2" x 3/16" steel that are fabricated, galvanized, then riveted together with a stainless steel rivet. Riveting after galvanizing assures that there is zinc between the two pieces of steel for maximum corrosion resistance.

Features

- 3/4" clevis opening with 5/8" diameter bolt and self-locking cotter
- Eye end has 11/16" hole
- Ultimate tensile strength 13,550 lbs

Material

Steel hot dip galvanized

Catalog Number	Hole Center to Bolt Center (in)	Weight /100 (lbs)
J6658	14	278
J6659	20	376



Extension

Extension links provide clearance from the pole or crossarm to the insulator string at deadend installations.

Material

Casting: Ductile iron hot dip galvanized
Hardware: Steel hot dip galvanized
Cotter Key: Stainless Steel

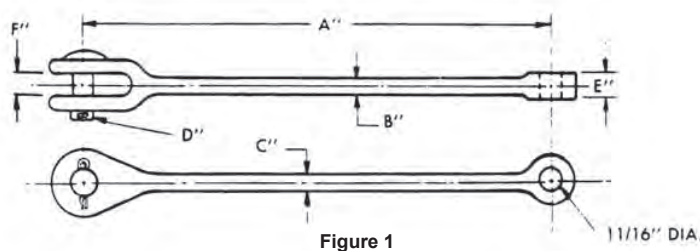


Figure 1

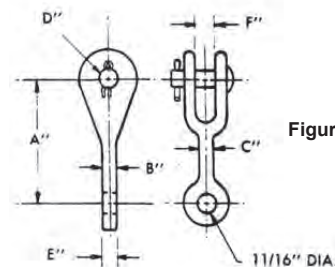


Figure 2

Catalog Number	Fig	A	B	C	D	E	F	Min Ultimate Strength (lbs)	Weight/ 100 (lbs)
CEL 10	1	10	1/2	5/8	5/8	9/16	11/16	15000	150
CEL 12	1	12	1/2	5/8	5/8	9/16	11/16	15000	155
CEL 14	1	14	9/16	5/8	5/8	5/8	11/16	15000	175
CEL90 4	2	4	9/16	9/16	5/8	5/8	11/16	15000	125



Mast Arms

Mast Arm, Floodlight, Wood Pole Mounting

Features

- 3/8" grounding hardware included

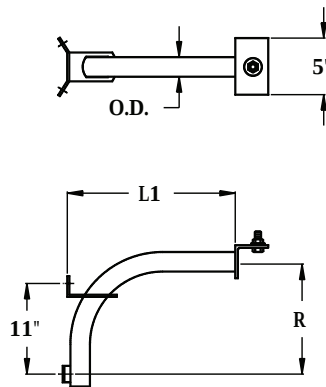
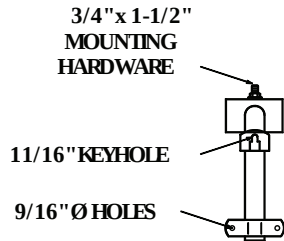
Material

Steel hot dip galvanized

Catalog Number	OD (in)	L1	R	Weight Ea (lbs)
S-2-1.5F	2.38	18	14	11.1
S-2-1.67F	2.38	20	14	12.0
S-2-2F	2.38	24	14	12.8
S-2-2.5F	2.38	30	14	14.1

Notes:

2.38" OD equals 2" IPS



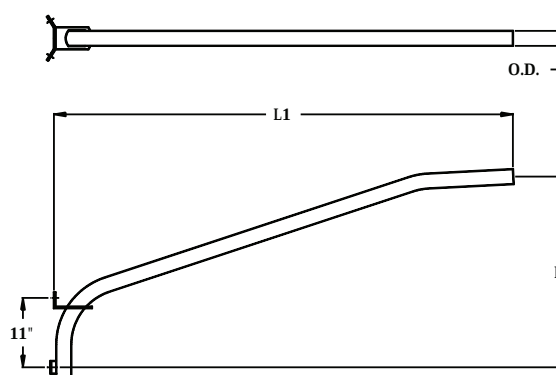
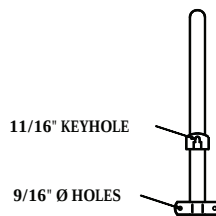
Mast Arm, Wood Pole Mounting

Features

- 3/8" grounding hardware included

Material

Steel hot dip galvanized or aluminum



Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-125-2G	Steel	1.66	24	18	9.0
S-125-2.5G	Steel	1.66	30	18	10.0
S-2-2.5G	Steel	2.38	30	18	13.0
S-125-4G	Steel	1.66	42	18	12.0
S-125-6G	Steel	1.66	66	30	15.5
S-2-6G	Steel	2.38	66	30	21.5
S-125-8G	Steel	1.66	90	42	19.5
S-2-8G	Steel	2.38	90	42	27.0
A-2-6G	Aluminum	2.38	66	30	11.0
A-2-8G	Aluminum	2.38	90	42	14.0

Notes:

- 1) 1.66" OD equals 1 1/4" IPS
- 2) 2.38" OD equals 2" IPS



Mast Arms

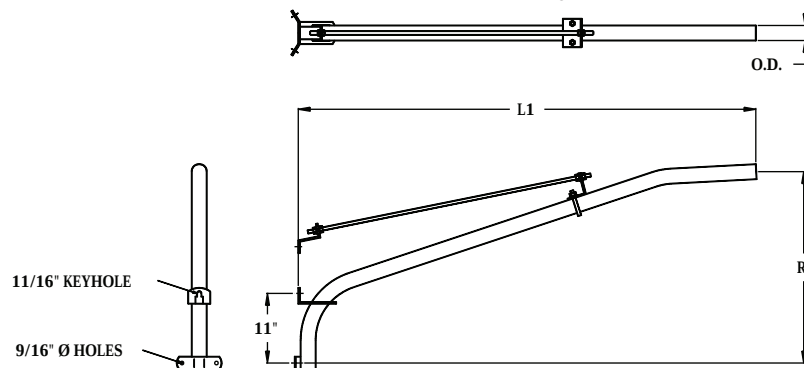
Mast Arm, Wood Pole Mounting

Features

- 3/8" grounding hardware included

Material

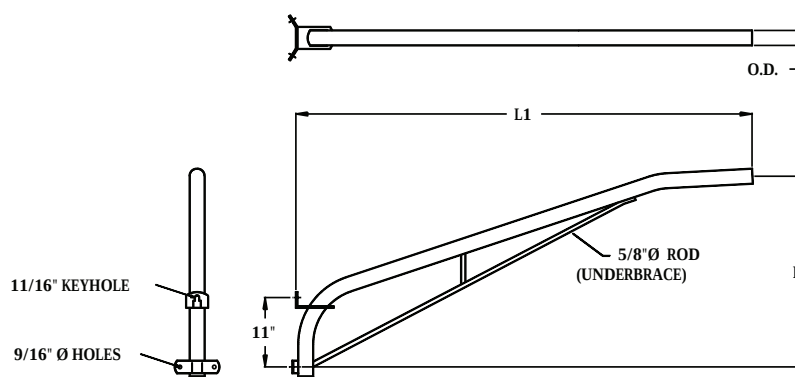
Steel hot dip galvanized



Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-125-6SG	Steel	1.66	66	30	21.3
S-125-8SG	Steel	1.66	90	42	25
S-2-8SG	Steel	2.38	90	42	32.4
S-125-10SG	Steel	1.66	114	48	30
S-2-10SG	Steel	2.38	114	48	39
S-125-12SG	Steel	1.66	138	60	35.5

Notes:

- 1) 1.66" OD equals 1 1/4" IPS
- 2) 2.38" OD equals 2" IPS



Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-125-8UB	Steel	1.66	90	42	29.1

Notes:

- 1) 1.66" OD equals 1 1/4" IPS
- 2) 2.38" OD equals 2" IPS



Mast Arms



Mast Arm, Wood Pole Mounting

Features

- 3/8" grounding hardware included

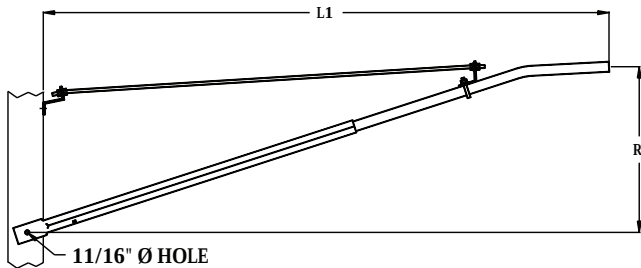
Material

Steel hot dip galvanized

Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-125-10ASG	Steel	1.66	114	32	42.4
S-125-12ASG	Steel	1.66	138	40	48.9
S-125-16ASG	Steel	1.66	186	58	70.6
S-125-18ASG	Steel	1.66	210	62	72

Notes:

1) 1.66" OD equals 1 1/4" IPS



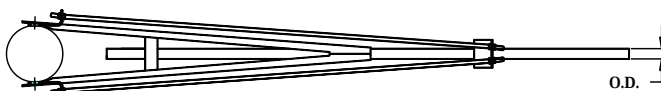
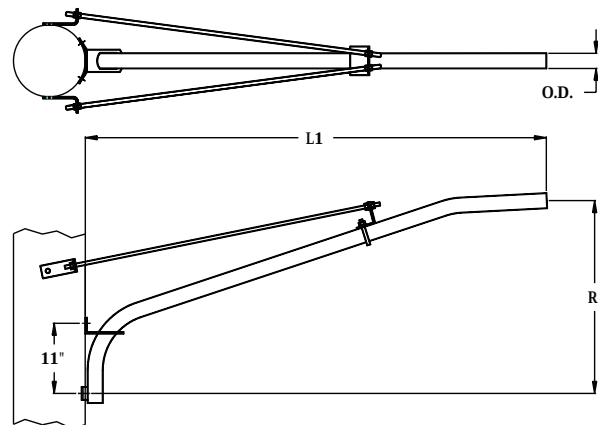
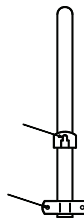
Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-125-10DG	Steel	1.66	114	48	37
S-125-12DG	Steel	1.66	138	60	43.9
S-2-12DG	Steel	2.38	186	60	54.8
S-125-14DG	Steel	1.66	162	60	50
S-2-16DG	Steel	2.38	186	72	70.7

Notes:

- 1) 1.66" OD equals 1 1/4" IPS
2) 2.38" OD equals 2" IPS

11/16" KEYHOLE

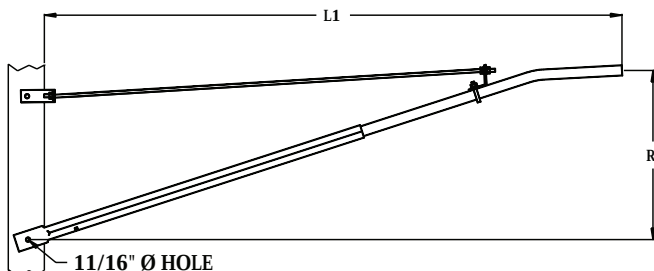
9/16" Ø HOLES



Catalog Number	Material	OD (in)	L1	R	Weight Ea (lbs)
S-2-14ADG	Steel	2.38	162	47	79
S-2-20ADG	Steel	2.38	234	67	105

Notes:

1) 2.38" OD equals 2" IPS





Nails and National Telephone Supply



Nails

Material

Steel hot dip galvanized

Catalog Number	Size	Length (in)	Diameter (in)	Weight/100 (lbs)
J810	10D	3	.144	1.5
J816	16D	3 1/2	.162	2.3



31- Series



51-; 53-; 55- Series

Nicopress Tools

The "Nicopress" trademark refers to products designed and manufactured by the National Telephone Supply Co.

Nicopress installing tools are designed to quickly and easily compress the appropriate Nicopress sleeve.

Features

- Shipped with detailed instructions showing proper tool operation and adjustment
- Tools and sleeves are marked for easy field identification

31- Series Tools

- Used principally for the splicing of communication sizes of line wire
- Available in two combinations of compression grooves C, D, J
- Popular groove combinations are DJ and CJ

51-ORANGE; 51-PEACH; 51-PLUM Tools

- Must be used when splicing ACSR with separate core and cover sleeves
- Single sleeves for ACSR can be compressed in the front groove of the above tools

53-XPJ Tool

- 3-groove tool
- Will accommodate any Nicopress item with a letter ending in X, P, J

55-PLUM:ORANGE Tool

- Recommended for single sleeve because of its broader coverage

Catalog Number	Tool Groove	Weight Ea (lbs)
31-CJ	C, J	2.2
31-DJ	D, J	2.2
51-ORANGE	Orange	6.4
51-PEACH	Peach	6.4
51-PLUM	Plum	6.5
53-XPJ	J, P, X	4.8
55-PLUM:ORANGE	Plum, Orange	4.9



National Telephone Supply



Nicotaps®

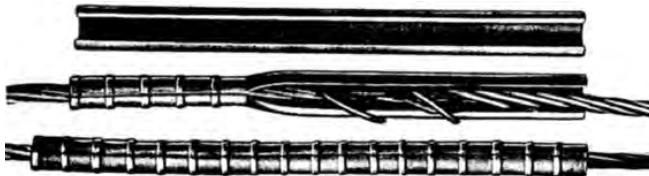
Nicotaps® are used principally in the communication field for making line and drop wire taps

Features

- Have a split section permitting installation without cutting line wire
- Connection is permanent and insures a trouble-free wire tap

Nicotap® sleeves for solid copper and Copperweld

Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
T1-064C	14 - 14	C	2 3/4	2.3
T1-080C	12 - 12	C	2 3/4	2.1
T1-162X102J	6 - 10	J	3	6.4
T1-162J	6 - 6	J	3	5.3
T1-204P	4 - 4	P	3 1/2	12.0



Repair Sleeves (Split Type)

Nicopress repair sleeves (split type) are for use on stranded conductors where some of the strands are damaged or broken

Features

- Installation restores the strength and conductivity of the conductor
- Split feature eliminates any necessity of cutting and resplicing the line
- Also used as a seat for hot line clamps

For Copperweld and copper composite

Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
R1-8A-P	8A	P	4	13.5
R1-6A-P	6A	P	4	12.0

For ACSR and AAAC

Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
AR4-3ORANGE	4 (6/1, 7/1)	Orange	12	20.0
AR2-1PEACH	2 (6/1, 7/1)	Peach	12	23.1
AR2-1PLUM	2 (6/1, 7/1)	Plum	12	26.5
AR1/0PLUM	1/0 (6/1)	Plum	12	27.2
AR4/0-75A	4/0 (6/1)	75AS	12	55.0



National Telephone Supply



Splicing Sleeves

Nicopress splicing sleeves are used to splice a wide range of conductors which include copper, copper covered steel. Each sleeve is marked with catalog number, conductor size and installation tool groove

Features

- Utilize the compression method and should be considered when requirements call for an economical method of splicing and deadending communications and power conductors
- Nicopress installing tools, which are also available, are designed to quickly and easily compress the appropriate Nicopress sleeve
- Nicopress sleeves may also be compressed with installing tools of other manufacturers

For solid copper conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
3-045B	17, 18, 19	B	1 1/8	0.3
1-080C	12	C	1 1/2	1.2
1-162J	6	J	2 1/4	3.5
1-229P	3	P	3	8.5
1-325/7F6	2/0	F6	7 1/4	48.3

For stranded copper conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-204/7P	4 (7 WIRE)	P	2 3/4	8.3
1-258/7X	2 (7 WIRE)	X	3	12.6
1-258/3X	2 (3 WIRE) 1 (7, 19 WIRE)	X	3 1/4	15.2
1-460/7H5	4/0 (7/19 WIRE)	H5	7 1/4	81.3

For solid or stranded copper conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-128J	8, 8 (7 WIRE)	J	2	3.9
1-162/7J	5, 6 (7 WIRE)	J	2 1/4	3.5
1-204P	4, 6 (3 WIRE)	P	2 3/4	8.2
1-258X	2, 4 (3 WIRE)	X	3	14.6
1-289X	1, 3 (3 WIRE)	X	3	13.0

For stranded Copperweld or Copperweld composite conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-3/081P	3 NO. 10, 9 1/2 D	P	3 1/4	13.2

For solid Copperweld conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-162P	6	P	3	11.5

For stranded Copperweld conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-3/102X	3 NO. 10	X	4 1/2	24.9

For Copperweld composite conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-4A-X	4A	X	5 3/4	26.9
1-6A-P	6A or 6C	P	5 1/2	17.3
1-8A-P	8A	P	5	17.8
3-2A-F6	2A	F6	7	41.3
3-8D-P	8D	P	4 3/4	16.0

For stranded all aluminum conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
AL4STR-P	4	P	2 3/4	3.5
AL2STR-X	2	X	3 1/4	5.4

For ACSR and AAAC stranded conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
661P	6 (6/1)	P	9	10.4
1061PLUM	1/0 (6/1)	Plum	16 1/2	43.3
467ORANGE	4 (6/1, 7/1)	Orange	14	27.2

For partial tension for ACSR conductor				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1704P	4 (6/1, 7/1)	P	3 1/4	3.6
1706P	6 (6/1)	P	3 1/4	4.0
1702X	2 (6/1)	X	3 1/4	5.4

Reducing Sleeves for solid copper and Copperweld				
Catalog Number	Conductor Size (AWG)	Tool Groove	Length (in)	Weight /100 (lbs)
1-162X128J	6 - 8	J	2	3.6
1-204X162P	4 - 6	P	3	10.4
1-258X204X	2 - 4	X	2 1/2	12.2



Nuts



Concave MF Locknuts

When the arched surface contacts the top of the common nut or bearing surface, wrenching flattens the arch, deflecting the nut threads from their true helix and causing them to firmly grip the bolt threads. The nut takes a permanent set and must be wrenched for further movement.

Features

- Free-spinning square locknut that starts freely from either side and spins into place with fingers
- 1/2 to a full turn with a wrench will lock it securely

Material

Steel hot dip galvanized

Catalog Number	Bolt Dia (in)	Weight / 100 (lbs)
J8581	3/8"	1.3
J8582	1/2"	2.4
J8583	5/8"	4.2
J8584	3/4"	5.4
J8584-1/2	7/8"	8.1

Square

Manufactured in accordance with ANSI Specifications B18.2.2 and tapped Unified National Coarse Threads Series Class 2B after centrifugal hot dip galvanizing, oversize for galvanized bolts and rods.

Features

- Considered safest to use by utility linemen
- Large wrenching surface
- Regular nuts are used on all types of threaded bolts and insulator pins
- Heavy nuts are used exclusively on anchor rods

Material

Steel hot dip galvanized

Regular Square		
Catalog Number	Bolt Dia (in)	Weight/ 100 (lbs)
J8561	3/8"	2.2
J8562	1/2"	5.4
J8563	5/8"	10.2
J8564	3/4"	13.8
J8564-1/2	7/8"	24.3

Heavy Square - For Anchor Rods Only		
Catalog Number	Anchor Rod Dia (in)	Weight/ 100 (lbs)
J8563-1	5/8	12.2
J8564-1	3/4	20.8
J8565-1	1	50.0

Washer

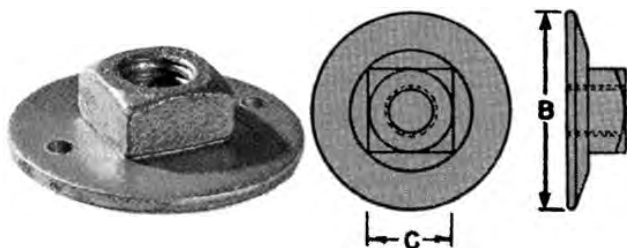
Features

- Washer nuts combine a square nut and large round washer in a static proof, one-piece, resistance welded washer/nut design
- Two 7/32" holes are provided in the design to accommodate nails which will resist loosening of the washer nut due to vibration

Material

Steel hot dip galvanized

Catalog Number	Thread Size (in)	B	C	Weight/ 100 (lbs)
J9802	5/8	2 1/2	1	29.0
J9803	3/4	3	1 1/8	49.0





Pins



Nylon Alloy Thread Type Pins

MacLean Power Systems Z-series insulator pins were developed to address environmental concerns associated with the manufacture, handling, and disposal of lead thread pins. Insulator threads for Z-series pins are produced from an advanced J.E.M.® (Joslyn Engineered Material) nylon alloy compound. The J.E.M.® material is a special nylon alloy blend to assure proper electrical and mechanical performance. The threads are flexible, yet more resilient than lead, offering superior insulator fit and conductor groove alignment. MPS nylon alloy thread type pins are available for 1" and 1 3/8" pin type insulator thread sizes.

MPS Z-series pins exceed the performance requirements of ANSI C135.22 specifications for lead thread pins. In addition to the ANSI requirements, MPS Z-series pins have been subjected to an extensive battery of tests to assure long-term performance in severe service conditions. The additional tests include:

- horizontal fatigue
- aeolian vibration
- corona
- ultraviolet
- cold temperature impact



Lead Thread Type Pins

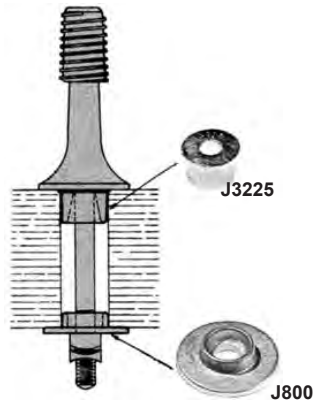
MacLean Power Systems lead threads are available for 1" and 1 3/8" pin type insulator thread sizes. The lead threads are tightly bonded to forged crossarm pins and formed steel pole top pins through a process of casting the lead-antimony alloy directly to the pin. A raised ring of lead at the top of the thread minimizes strains from developing when the insulator is tightened.

The threads comply to ANSI standards for dimensional and performance requirements.

The lead threads on the pins are shipped with an assembled cardboard protective sleeve to prevent damage to the threads during transit and handling.



Pins



Adapters, Pin Hole

Pin hole adapters or centering washers are used with 5/8" diameter shank steel pins on wood crossarms previously drilled with 1 1/2" holes for wood pins.

Features

- Adapter top is placed in the top of the pin hole and is held in place by a circular rim at the top
- Bottom adapter is placed in the bottom of the pin hole to center the pin shank and provide a firm bearing surface for the nut

Material

Steel hot dip galvanized

Catalog Number	Type	Pin Dia	OD	Thickness (in)	Weight/ 100 (lbs)
J3225	Top	5/8	1 11/16	1 11/16	31.5
J800	Bottom	5/8	2 3/4	5/8	37.5

Angle Crossarm

Angle pin brackets can be used for angle construction on crossarms or mounted on the side of poles.

Features

- Mount with a 5/8" diameter machine bolt
- Pin base is flat for mounting to either a pole or crossarm
- Angle crossarm pins have a smooth base on the bottom for mounting on wood or fiberglass arms

Material

Pin Body: Ductile iron hot dip galvanized
Threads: Nylon alloy or lead

Catalog Number	Thread Material	Insulator Thread (in)	A	B	C	Weight/ 100 (lbs)
P400Z	Nylon Alloy	1	6	4 1/8	4	320
P400	Lead	1	6	4 1/8	4	325
PA400Z	Nylon Alloy	1	6	4 1/8	4	453
PA400	Lead	1	6	4 1/8	4	458
PA401AZ	Nylon Alloy	1 3/8	8	4 1/2	4	595
PA401A	Lead	1 3/8	8	4 1/2	4	600
P402Z	Nylon Alloy	1	8	4 1/2	4	536
PA402Z	Nylon Alloy	1	8	4 1/2	4	600

Notes:

1) PA Series include: 5/8" x 7" machine bolt; 5/8" square nut; 5/8" MF locknut; and square flat washers

Angle Crossarm

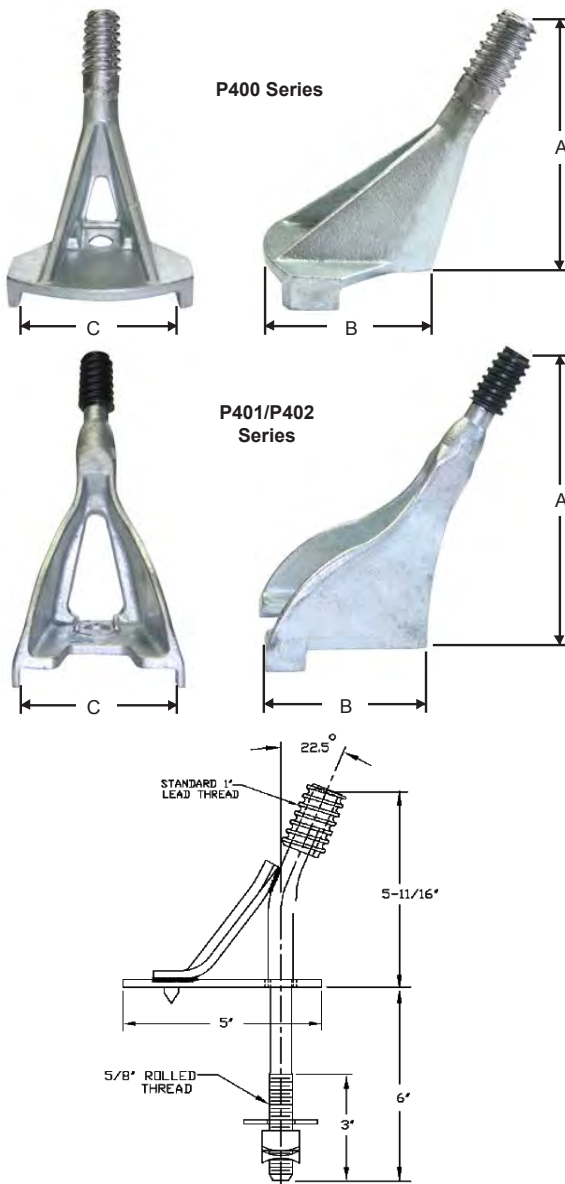
Features

- Designed for use on slight angles on rural lines
- Reinforced with a 1/4" x 1 1/4" welded brace and 3/16" x 3" x 5" welded base plate
- Spike is included on the bottom to resist movement

Material

Pin Body: Steel hot dip galvanized
Threads: Lead

Catalog Number	Thread Material	Insulator Thread (in)	Angle (°)	Weight/ 100 (lbs)
J215	Lead	1	22.5	336





Pins



Angle Pole Top

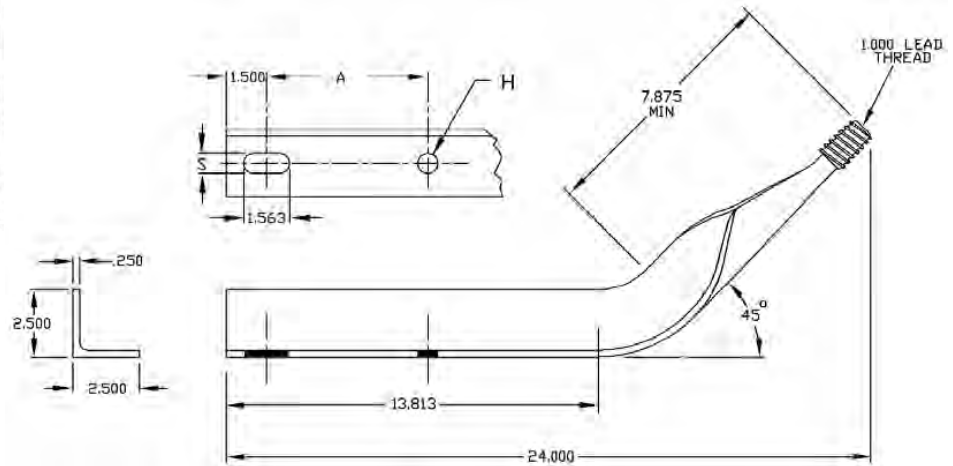
Designed to be mounted on the side of the pole top for angle construction application.

Features

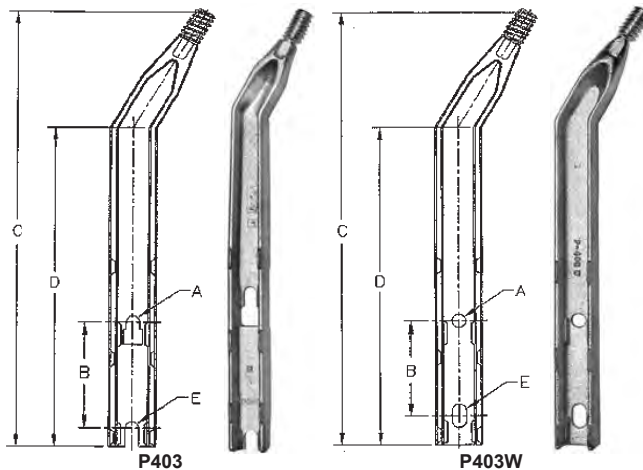
- Withstand angle loads up to 2250 lbs

Material

Pin Body: Steel angle hot dip galvanized
Threads: Lead



Catalog Number	Insulator Thread (in)	A	Slot Size	Hole Dia	Weight/ 100 (lbs)
J26837	1	6	11/16	11/16	863
J26944	1	8	13/16	13/16	863



Angle Pole Top

Features

- Formed on a 30° angle
- Include integral spikes for stability for angle construction
- Withstand angle loads up to 2400 lbs

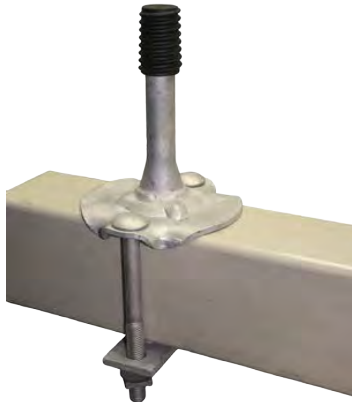
Material

Pin Body: Ductile iron hot dip galvanized
Threads: Lead

Catalog Number	Insulator Thread (in)	A	B	C	D	E	Weight/ 100 (lbs)
P403	1	11/16	8	24	18 1/2	11/16 x 1 1/8	1090
P403W	1	11/16	5	22	16 3/4	11/16 x 1 1/4	900



Pins



Clamp, Wide Base

The Z-series clamp pins are installed to encircle the crossarm and the broad base distributes the load and eliminates the need for drilled crossarm holes.

Features

- Nylon insulator threads permanently molded to the pin body
- Manufactured with a forged pin body securely welded to wide base saddle
- Furnished with two 5/8 x 7" carriage bolts and a clamping plate with two raised projection on one side to resist movement. Clamp plate could be reversed for use on fiberglass arms.

Material

Pin body: Steel hot dip galvanized
Threads: Nylon alloy

Catalog Number	Insulator Thread (in)	Crossarm Size (in)	Height Above Arm (in)	Weight/ 100 (lbs)
J3322Z	1	3 3/4 x 4 3/4	6	495
J3324Z	1 3/8	3 3/4 x 4 3/4	7	553

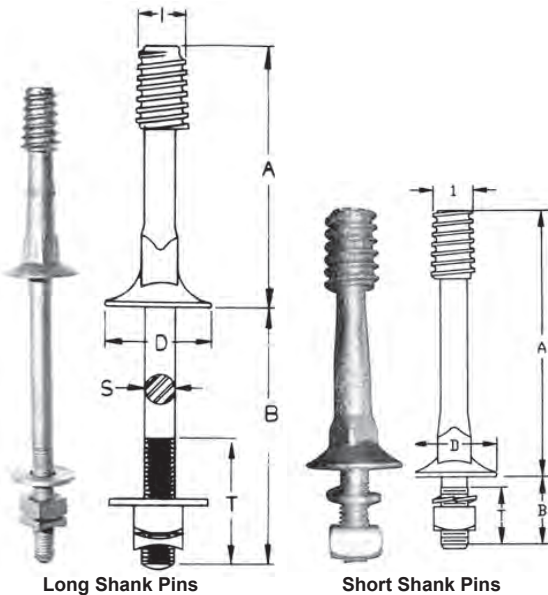
Crossarm

Features

- Crossarm pins are forged in one piece from alloy steel
- Large bases distribute loads without crushing flat wood crossarms
- Square wrenching shoulder is provided above the base for rotating the insulator groove into position
- Long shank pins are supplied with a square washer, square nut and MF concave lockwasher
- Short shank pins are supplied with a split coil lockwasher and square nut
- 1" ANSI standard nylon alloy threads for pin type insulators
- Furnished with insulator threads produced from J.E.M. (Joslyn Engineered Material) nylon alloy compound

Material

Pin Body: Steel hot dip galvanized
Threads: Nylon alloy



Long Shank Pins

Short Shank Pins

Long Shank								
Catalog Number	Thread Material	A	B	D	S	T	Washer (sq in)	Weight/ 100 (lbs)
J203Z	Nylon Alloy	5	5 3/4	2	5/8	4	2	138
J204Z	Nylon Alloy	5	6 1/2	2	5/8	4	2	144
J2802Z	Nylon Alloy	5	8	2	5/8	4	1 3/4 (round)	157
J206Z	Nylon Alloy	6	5 3/4	2	5/8	2 3/4	2	147
J207Z	Nylon Alloy	6	6 1/2	2	5/8	3	2	151
JP40581Z	Nylon Alloy	6	7 1/2	2	5/8	3 1/4	2	200
J211Z	Nylon Alloy	6	6 1/2	2	3/4	3 1/4	2 1/4	232
J22267Z	Nylon Alloy	6	8	2	3/4	4 1/2	2 1/4	276

Short Shank							
Catalog Number	Thread Material	A	B	D	S	T	Weight/ 100 (lbs)
J221Z	Nylon Alloy	5	1 1/2	2	5/8	1 3/8	126
J222Z	Nylon Alloy	6	2 1/2	2	5/8	2 3/8	104
J224Z	Nylon Alloy	6	1 3/4	2	3/4	1 5/8	160
J24365Z	Nylon Alloy	7	2 1/2	2	3/4	2 3/8	196



Pins



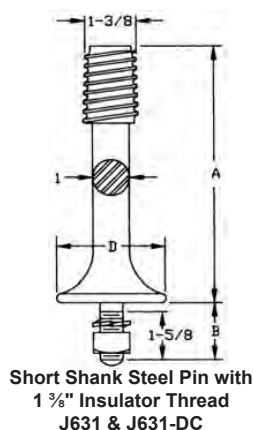
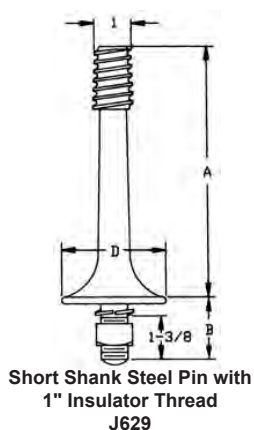
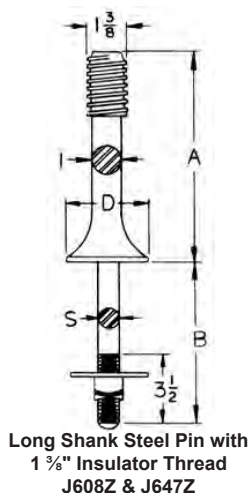
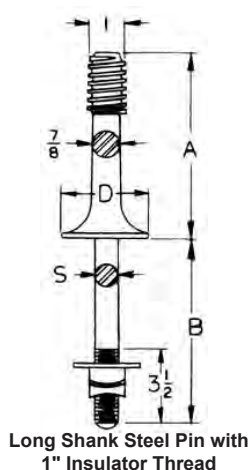
Crossarm

Features

- Crossarm pins are forged in one piece from alloy steel
- Large bases distribute loads without crushing flat wood crossarms
- Short shank pins used on steel crossarms while long shank pins used on wood crossarms
- Long shank pins are supplied with a square washer, square nut and MF concave lockwasher
- Short shank pins are supplied with a split coil lockwasher and a square nut
- ANSI standard nylon alloy or cast lead threads for pin type insulators
- Pins with "Z" suffix furnished with insulator threads produced from J.E.M. (Joslyn Engineered Material) nylon alloy compound

Material

Pin Body: Steel hot dip galvanized
Threads: Nylon alloy or lead



Long Shank for insulators with 1" threaded pin hole							
Catalog Number	Thread Material	A	B	D	S	Washer (sq in)	Weight /100 (lbs)
J626Z	Nylon Alloy	6	6 1/2	2 3/4	5/8	2	194
J24626Z	Nylon Alloy	8	5 3/4	3	5/8	2	336
J606Z	Nylon Alloy	6	6 1/2	2 3/4	3/4	2 1/4	246
J607Z	Nylon Alloy	7	6 1/2	2 3/4	3/4	2 1/4	260
J607Z-DE	Nylon Alloy	7	8	2 3/4	3/4	3	265

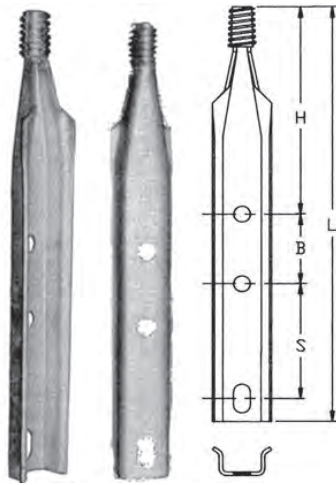
Long Shank for insulators with 1 3/8" threaded pin hole							
Catalog Number	Thread Material	A	B	D	S	Washer (sq in)	Weight /100 (lbs)
J647Z	Nylon Alloy	7	7	3	5/8	2 1/4	302
J608Z	Nylon Alloy	8	7	3	3/4	3	482

Short Shank for insulators with 1" threaded pin hole						
Catalog Number	Thread Material	A	B	D	S	Weight /100 (lbs)
J629	Lead	7	1 3/8	2 3/4	3/4	210

Short Shank for insulators with 1 3/8" threaded pin hole						
Catalog Number	Thread Material	A	B	D	S	Weight /100 (lbs)
J631	Lead	8	1 5/8	3	3/4	380
J635-DC	Lead	12	1 5/8	3	3/4	584



Pins



Straight Base

Pole Top

Features

- Pressed steel pole top pins with nylon alloy insulator threads are mounted against the pole with 5/8" bolts
- Lower hole is slotted 11/16 x 1 1/4" on both 2 and 3 hole styles

Material

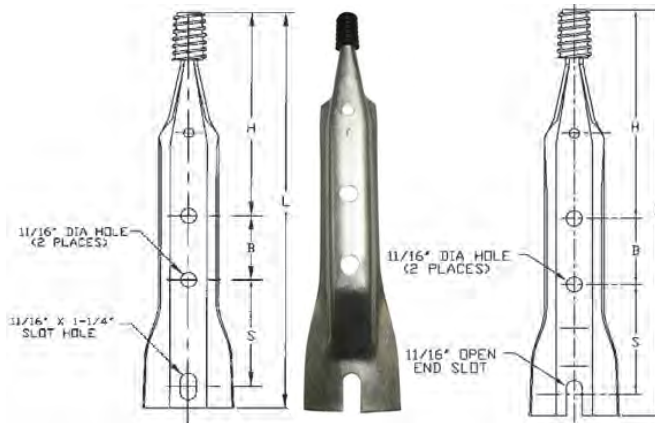
Pin body: Steel hot dip galvanized
Threads: Nylon alloy

Pressed Steel - Straight Base

Catalog Number	Thread Material	Insulator Thread (in)	L	S	B	H	Weight/ 100 (lbs)
J715Z	Nylon Alloy	1	15	5	2-hole	9	323
J1368ZSL	Nylon Alloy	1	18	5	3"	9	280
J1368Z	Nylon Alloy	1	18	5	3	9	283
J744Z	Nylon Alloy	1	24	5	3	15	450
J720Z	Nylon Alloy	1 3/8	20	8	2-hole	11	327
J740Z	Nylon Alloy	1	20	8	2-hole	11	320
J1220Z	Nylon Alloy	1	20	5	3	11	314

Notes:

* Lower slot is open (non-enclosed) on J1368ZSL



**Flared Base
Semi-Closed Neck
J2008Z**

**Flared Base
Semi-Closed Neck
J2008-XZ**

Pole Top

Features

- Lower end is flattened and flared to give a solid bearing surface when mounted with the flange against the pole
- Holes are for 5/8" mounting bolts

Material

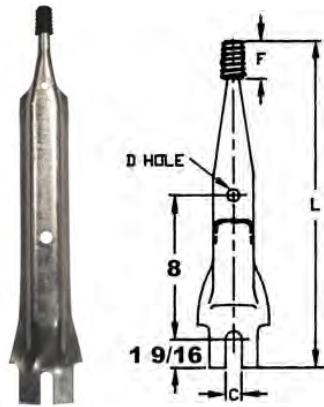
Pin body: Steel hot dip galvanized
Threads: Nylon alloy or lead

Flared Base - Semi-Closed/Folded Neck

Catalog Number	Thread Material	Insulator Thread (in)	L	S	B	H	Weight/ 100 (lbs)
J2008-XZ	Nylon Alloy	1	18	5	3	9	280
J2008Z	Nylon Alloy	1	18	5	3	9	280



Pins



Flared Base
Open Lower Slot

Pole Top

Features

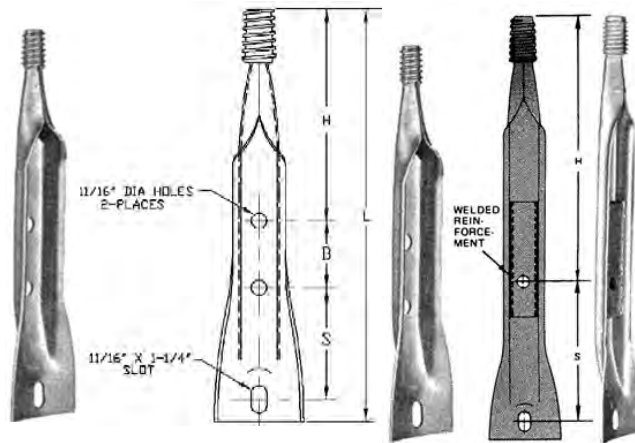
- Pressed steel pole top pins with nylon alloy insulator threads are mounted against the pole with 5/8" bolts
- Lower hole is slotted 11/16 x 1 1/4" on both 2 and 3 hole styles

Material

Pin body: Steel hot dip galvanized
Threads: Nylon alloy

Flared Base - Open Lower Slot

Catalog Number	Thread Material	Insulator Thread (in)	L	C	D	F	Weight/ 100 (lbs)
J26945Z	Nylon Alloy	1	24	11/16	11/16	1 3/4	430
J26947Z	Nylon Alloy	1 3/8	24	11/16	11/16	2 1/8	450
J26946Z	Nylon Alloy	1	24	13/16	13/16	1 3/4	430
J26948Z	Nylon Alloy	1 3/8	24	13/16	13/16	2 1/8	450



Flared Base
Closed Neck
J2008SES

Flared Base
Closed Neck
J2010 & J2011

Pole Top

Features

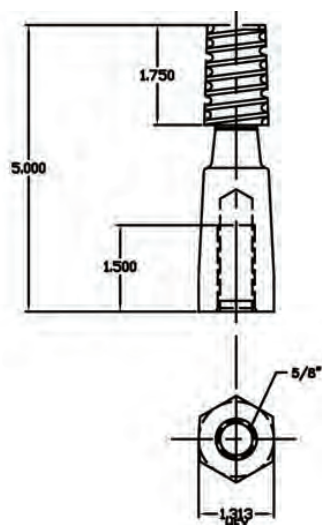
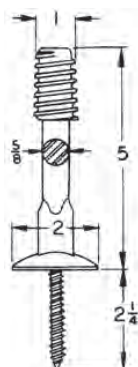
- Lower end is flattened and flared to give a solid bearing surface when mounted with the flange against the pole
- J2010 and J2011 pins are reinforced by a channel welded into the back which gives a rigid box section and greatly increased strength
- Holes are for 5/8" mounting bolts

Material

Pin body: Steel hot dip galvanized
Threads: Nylon alloy or lead

Flared Base - Closed/Folded Neck

Catalog Number	Thread Material	Insulator Thread (in)	L	S	B	H	Weight/ 100 (lbs)
J2008SES	Lead	1	18	5	3	9	323
J2010	Lead	1	24	8	2-hole	15	530
J2011	Lead	1 3/8	24	8	2-hole	15	590



Catalog Number	Insulator Thread (in)	Weight/ 100 (lbs)
J2840	1	90
J2841	1 3/8	150



Pins and Plates



Western Union Type

Typically used with glass or porcelain insulators for telecommunication and signal systems

Features

- Manufactured with 1" diameter nylon alloy insulator threads
- Forged from carbon steel
- Have a 1/2" diameter shank

Material

Pin Body: Steel hot dip galvanized
Threads: Nylon alloy

Catalog Number	Shank Length (in)	Height Above Arm (in)	Weight/ 100 (lbs)
J1190Z	5	4 1/2	64



Pole Bearing

Greater pole stability for H-frame transmission structures is made possible by using these poles bearing plates.

Features

- Attached to bottom of pole to increase the resistance of uplift and settling
- Each plate provides 90 sq in of additional bearing surface to the soil
- Plate's mounting surface incorporates integral spikes to resist movement
- Mounted with a 7/8" diameter bolt

Material

Steel hot dip galvanized

Catalog Number	Plate Size	Weight/ 100 (lbs)
P325B-122	6 1/2" x 14 1/8"	1200



Pole Butt Grounding

Installed on the bottom of utility poles to provide a secure positive ground by connecting the butt plate to the pole ground wire.

Features

- Furnished with an integral copper terminal lug and screw which accommodates copper ground wire from #14 solid to #4 stranded

Material

Copper

Catalog Number	Plate Size	Weight/ 100 (lbs)
J9196	7 x 7 1/2	52



Plates

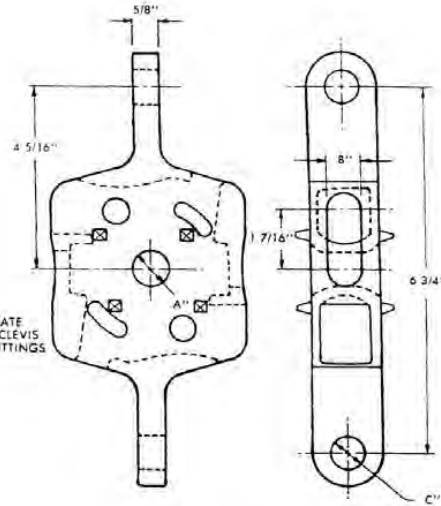
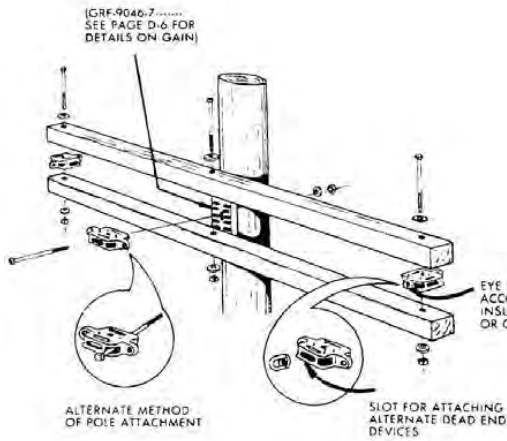


Crossarm Spacer Deadend

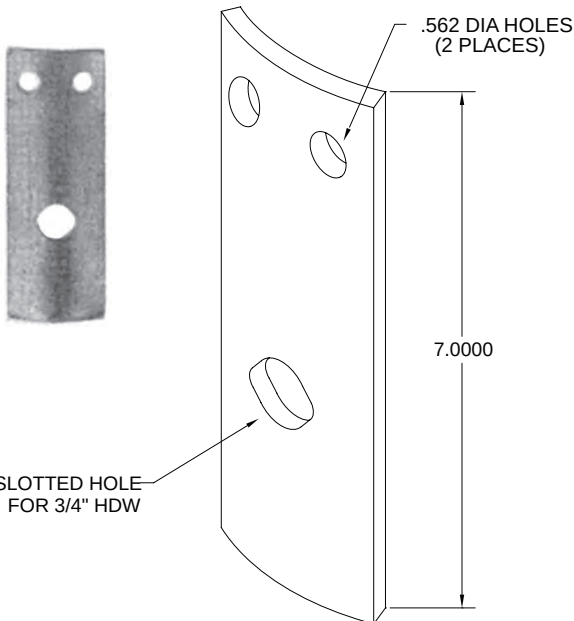
Used between twin deadend crossarms to distribute the load to both crossarms and provide attachment points for single or double deadending conductors.

Material

Ductile iron hot dip galvanized



Catalog Number	Crossarm Range	Hole Dia. A	Hole Dia. B	Eye Hole C	Weight/ 100 (lbs)
TAS-55-5	3 1/4 x 4 1/4 to 4 x 5	11/16	11/16	11/16	300



Lift, for Thimbleye Bolts

Recommended for use behind the eyes of angle thimbleye bolts with lag screws to increase load capacity either where loads are excessive or guys are steep.

Features

- Distributes the load over a greater surface area protecting the wood pole against shear damage
- Measures 2 1/2 " x 7" curved on a 3" radius
- Plates has 7/8" x 1" oval holes
- Screw holes are 9/16" diameter for 1/2" lags

Material

Steel hot dip galvanized

Catalog Number	Thickness (in)	Bolt Dia	No of Holes	Weight/ 100 (lbs)
J7890	1/4	3/4	3	126



Plates and Pole Guards



Strain

Strain Plates are used for wrap type guying with J1019 guy hooks to provide a bearing surface for the strand, preventing damage to the wood fibers of the pole.

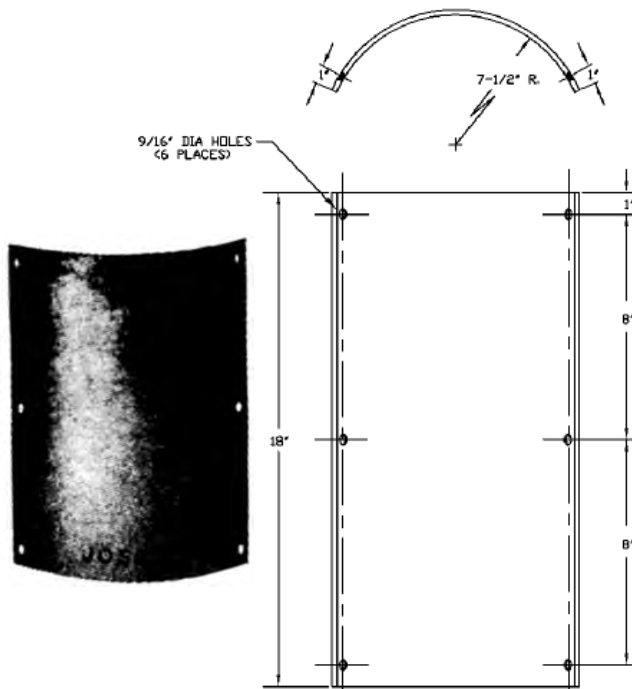
Features

- 2 - 4 plates are required per pole depending on its dia.
- Plate is 4" x 8" x 14 gauge curved on a 5" radius with four 3/16" dia. nail holes

Material

Steel hot dip galvanized

Catalog Number	Weight/ 100 (lbs)
J1034	86



Pole Guards

Pole guards are fastened to the base of poles located at corners and other vulnerable spots to protect from vehicular damage.

Features

- Dimensions given are of the flat plate before bending on a 7 1/2" radius
- All holes are 9/16" for mounting with 1/2" screws

Material

Steel hot dip galvanized

Catalog Number	Size (in)	Weight/ 100 (lbs)
J1037	16 x 18 x 1/8	1020



Pole Roofs and Pole Steps



Pole Roofs

Pole roofs are designed to protect the most vulnerable part of the pole above ground.

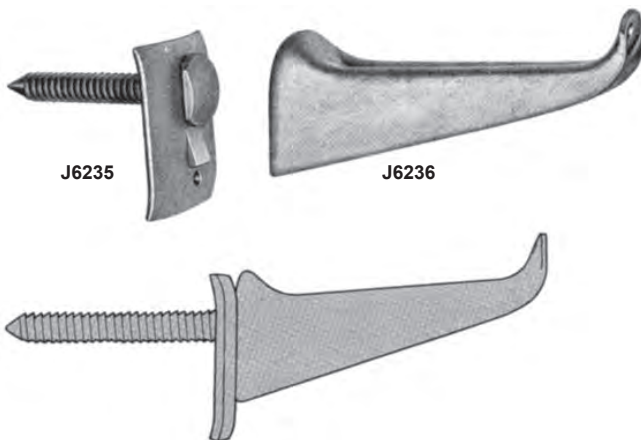
Features

- Easily installed with 10 broad head galvanized nails included
- No danger of radio interference as with a metallic cap

Material

Long life non-metallic roofing material

Catalog Number	Pole Diameter Range (in)	Weight/ 100 (lbs)
J2108	5-8	64



Detachable Pole Steps

Detachable pole steps prevent unauthorized climbing to the point on a pole where permanent steps are installed.

Features

- Special 9/16 x 4" fetter drive lag screw permanently attaches the mounting plate to the pole
- Twisting is prevented by a punched projection
- Nail hole is provided
- Can be hung from lineman's belt
- When attached, extension is 5 1/2"

Material

Steel hot dip galvanized

Catalog Number	Description	Weight/ 100 (lbs)
J6235	Pole Plate & Lag Screw	64
J6236	Step	59



Pole Steps

Features

- Rolled fetter drive threads and a wide, flat driving surface make installation fast and easy
- Knurled ring indicates the proper driving depth

Material

Steel hot dip galvanized

Catalog Number	Size (in)	Weight/ 100 (lbs)
J1118	5/8 x 10	98



Racks



Extension Bracket

Rack extension brackets are used to provide additional clearance between a secondary rack and the pole surface when necessary to clear obstructions or maintain proper wire alignment.

Features

- 2 brackets required for installation
- Curved to fit the pole and has 3 staggered holes to permit mounting with 5/8" bolt or two 1/2" lag screws
- 5/8" x 2" carriage bolt is furnished for attaching the rack

Material

Steel hot dip galvanized

Catalog Number	Extension from Center of Pole	Weight/ 100 (lbs)
J2355	6	272
J2357	9	325



Secondary

Features

- Exceeds strength specifications for both ANSI medium and heavy type
- Curved back fits snugly to the pole with a 3 1/4" wide bearing surface
- Mounting slots on the extended styles are for 5/8" bolts
- Groove in the back will retain a 5/8" square nut, permitting the rack to be installed over existing bolts without disturbing present installations
- J101 or J151 insulators should be ordered separately

Material

Steel hot dip galvanized

Catalog Number	Number of Wires	Wire Spacing (inches)	Overall Length (inches)	End Mounting Hole Spacing (inches)	Approximate Shipping Weight (lbs per 100 pcs.)
J767	2	8	18	16	540
	3	4			
J768	3	8	26	24	760
J769	3	12	34	32	980
	4	8			



Underground Support Bracket

Features

- Permits rack to be mounted at a 3 - 5/8" clearance from the vault wall

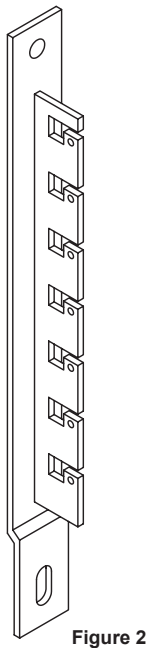
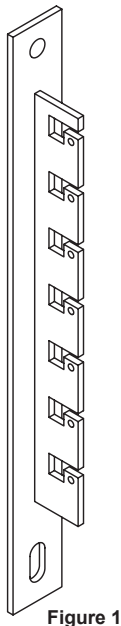
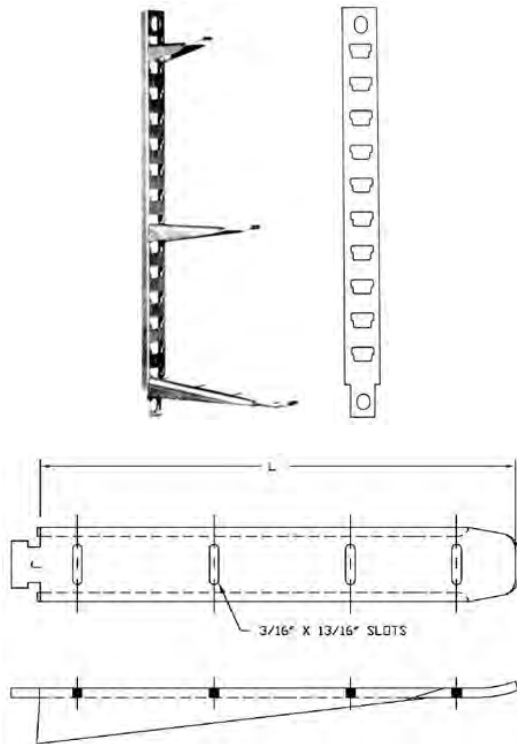
Material

Steel hot dip galvanized

Catalog Number	Steel Size (in)	A	B	C	Weight/ 100 (lbs)
J5116	1 x 1/2	3 3/4	3 5/8	1 3/4	117



Racks



Underground Cable

Underground cable racks and hooks are used for supporting cable runs in manholes and vaults.

Features

- J5120 series 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
- 8, 14, and 18 hole racks have 3/4 x 19/32" mounting slots at each end
- Mounting slots interlock so that 2 racks may be combined as one unit
- Cable hooks are formed with a generous radius to protect cable from damage
- Turned up ends to help prevent the cable or cable rack insulator from slipping off

Material

Steel hot dip galvanized

Cable Hooks		
Catalog Number	Extension from Face or Back	Weight/ 100 (lbs)
J5132A	7 1/2	90
J5133A	10	120
J5134A	14	240
J5135A	18	292

Cable Racks				
Catalog Number	Overall Length	Mtg Hole	No. of Holes	Weight/ 100 (lbs)
J5124	15	13 1/2	8	150
J5125	24	22 1/2	14	230
J5126	30	28 1/2	18	290

Underground Cable

Features

- Heavy duty, T-section shape with slots to securely attach the mating U6700 Series cable rack hooks
- Slots and back mounting base are produced from 1/4" x 2" wide steel and include an 11/16" upper hole and 11/16 x 1 1/2" lower slot for mounting with 5/8" diameter bolts
- Figure 2 racks have a formed offset in the bottom base to permit installing another rack to obtain additional length

Material

Steel hot dip galvanized

Catalog Number	Fig	Slot Spacing	Overall Length	Mtg Hole Spacing	No. of Slots	Weight/ 100 (lbs)
U600-2600WD	1	1 1/2	26	22 3/4	9	790
U600-3650WD	1	2 1/4	36 1/2	34 1/2	10	895
U600-4650WD	1	2 1/4	46 1/2	44 1/4	18	1250
U600-5300WD	1	2 1/4	53	50 3/4	18	1300
U600-60WD	1	2 1/4	60	57 3/4	24	1625
U6T091W	2	1 1/2	21 1/2	19 1/4	9	564
U600-2975WD	2	2 1/4	29 3/4	27 1/2	10	725
U6T112W	2	2 1/4	32	29 3/4	11	780



Racks

Underground, Cable Hooks

Features

- Bracket hook for neutral support

Material

Steel hot dip galvanized

Neutral Support		
Catalog Number	Length	Weight/ 100 (lbs)
U6700	3 5/16	64

Underground, Cable Hooks

Features

- Sturdy 1 piece formed steel construction
- Slots permit insulator positioning
- No tools needed for assembly to the racks
- For use with V600 and V6T series cable racks

Material

Steel hot dip galvanized

Cable Supports				
Catalog Number	Fig	Description	Length	Weight/ 100 (lbs)
U6701	A	1-insulator position	7 3/4	145
U6702	B	2-insulator position	13 1/16	250
U6703	C	3-insulator position	18 3/8	360
U6704A	D	4-insulator position	23 11/16	445
U6702 - 10		8 13/16" slot	11 3/4	232
U6703 - 11		3 5/8" slot	16 9/16	348

Cable Rack Insulators

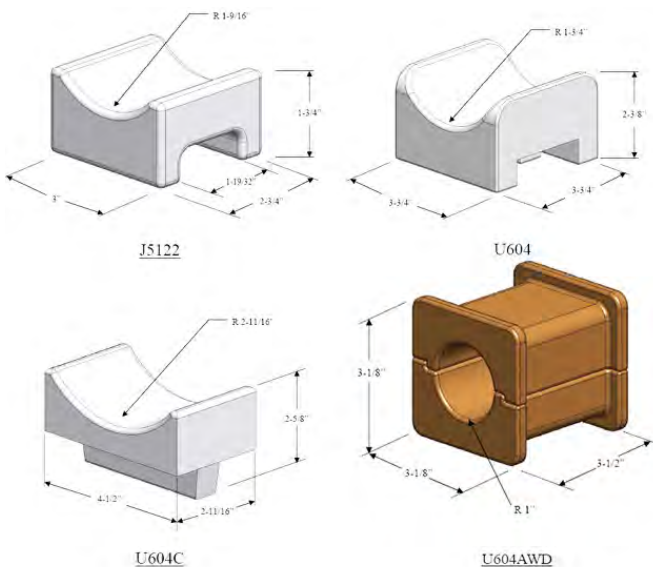
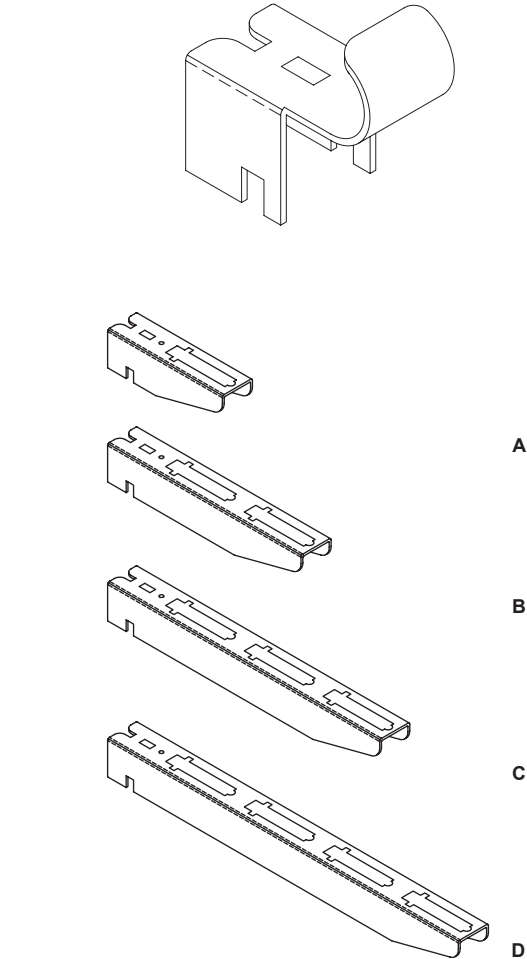
Features

- Designed to rest on cable rack hooks
- Provide a smooth, generous radius seat for the underground cable
- J5122 unsulators accommodate J513 A series hooks
- U604, U604C, and U604AWD insulators are designed to engage onto U670 and U602/U603 series hooks

Material

Porcelain

Catalog Number	Weight/ 100 (lbs)
J5122	78
U604	168
U604C	140
U604AWD	92





Rods



Couplings

Features

- Produced from high strength bronze alloy for corrosion resistance and driving strength
- Fully threaded internally to allow engagement of a driving stud or coupled rods during installation

Material

Bronze alloy

Catalog Number	Rod Dia	Weight/ 100 (lbs)
J9182	5/8	25
J9183	3/4	42

Driving Tool

Hand-operated ground rod driving tool accommodates 1/2" and 5/8" diameter ground rods and will allow the installation of up to 8' ground rods driven from groundline level.

Features

- Reversible internal chambers allow one end to drive rod to 3' above ground level and other end to drive remaining 3' ground level
- Durable heat treated internal chambers are designed to resist mushrooming of the ground rod during the driving process

Catalog Number	Rod Dia	Weight/ 100 (lbs)
J26514	1/2" and 5/8"	1900



Ground

Features

- Available in 5/8" and 3/4" diameters and 8 ft lengths for most grounding requirements
- Have cone point for easy driving and plain end for attaching a ground rod clamp

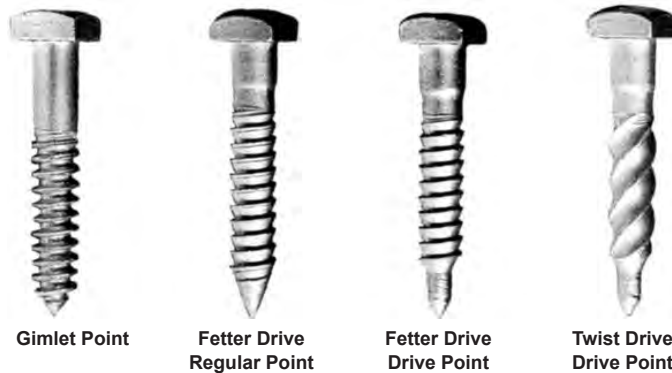
Material

Steel hot dip galvanized

Catalog Number	Rod Size	Weight/ 100 (lbs)
J5328	5/8" x 8'	800
J5338	3/4" x 8'	1280



Screws and Shackles



Screws, Lag

Gimlet Point Lag screws are installed with a wrench. Fetter Drive and Twist Drive lag screws can either be wrenched or driven like a nail for speedier installation without sacrificing any of the holding strength of regular gimlet point lag threads.

Features

- All lag screws have rolled threads
- Twist drive lags are furnished with a drive point for additional starting ease and accuracy
- Most fetter drive lags can be furnished with a drive point as well

Material

Steel hot dip galvanized

Catalog Number				Size (in)	Min Thread Length (in)	Weight/ 100 (lbs)
Gimlet Point	Fetter Drive Regular Point	Fetter Drive Drive Point	Twist Drive Drive Point			
J8722	J8652HH*			1/4 x 2	1 1/2	2.9
J8722-1/2	J8652-1/2HH*			1/4 x 2 1/2	1 3/4	3.5
J8723				1/4 x 3	2	4.1
J8732*				5/16 x 2	1 1/2	4.7
	J8742-1/2			3/8 x 2 1/2	1 3/4	8.5
J8773		J8743P		3/8 x 3	2	9.9
		J8744P		3/8 x 4	2 1/2	12.8
		J8753P	J8753TP	1/2 x 3	2 1/4	19.6
J8784	J8754	J8754P	J8754TP	1/2 x 4	2 5/8	24.0
	J8754-1/2	J8754-1/2P		1/2 x 4 1/2	2 5/8	26.2
		J8756P		1/2 x 6	3	28.0
	J8765			5/8 x 5	3 1/2	44.2

Notes:

*Indicates Hex Head



Lag, Hex Head w/ Neoprene Backed Steel Washer

Hex head lag screws with steel/neoprene washers are ideal to secure plastic U-cable guards.

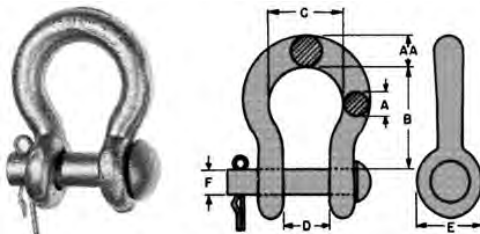
Features

- 9/16" steel washer is bonded with a neoprene washer on one side to provide a cushion between the plastic cable guard and the lag screw.
- Lag screws have 7/16" hex heads and gimlet points/threads.
- Hardened steel to resist bending

Material

Steel hot dip galvanized

Catalog Number	Size (in)	Weight / 100 (lbs)
J26486.1	1/4 x 2	350
J26486.2	1/4 x 2 1/2	400



Anchor Shackles

Anchor shackles are used for attaching suspension insulators to towers, yokes and double arming plates.

Features

- Openings are enlarged to permit the use of two or more fittings

Material

Steel hot dip galvanized

Catalog Number	AA	A	B	C	D	E	F	Ult Strength (lbs)	Weight / 100 (lbs)
J2742	1/2	1/2	1 13/16	1 3/8	7/8	1 3/8	5/8	15000	92



Staples



Rolled
(Diamond) Point



Cut (Slash) Point



Square Shank
Barbed

Round Shank

Staples are used to secure ground wire and ground wire molding to wood poles.

Rolled (Diamond) Point			
Catalog Number	Finish	Dimensions L x Inside W x Wire Dia	Weight/ 100 (lbs)
J128	steel hot dip galvanized	3 x 1 1/16 x 1/4	7.9
J142	steel hot dip galvanized	3 x 1 1/2 x 1/4	8.3
J156	steel hot dip galvanized	2 x 1/2 x 0.162	2.5
J172	steel hot dip galvanized	1 1/2 x 3/8 x 0.148	1.5
J173	steel hot dip galvanized	1 3/4 x 3/8 x 0.148	1.6
J7487HDG	steel hot dip galvanized	2 5/8 x 0.162	2.3
J7493HDG	steel hot dip galvanized	3 x 1 1/16 x 1/4	5.7
J6490	coppercoated	2 x 5/8 x 0.162	3.6
J6493	coppercoated	1 1/4 x 1/4 x 0.114	0.6
J6494	coppercoated	1 1/2 x 5/16 x 0.144	1.2
J6495	coppercoated	1 3/4 x 3/8 x 0.144	1.5
J6496	coppercoated	2 x 1/2 x 0.162	2.2
J6521	coppercoated	2 x 1 1/16 x 3/16	3.1
J6522	coppercoated	3 x 1 x 1/4	7.9
J7487	electro-galvanized	2 x 5/8 x 0.162	2.3
J7488	electro-galvanized	2 x 5/8 x 3/16	3.2
J7488HDG	steel hot dip galvanized	2 x 5/8 x 3/16	3.3
J7491	electro-galvanized	2 1/2 x 29/32 x 3/16	3.7
J7493	electro-galvanized	3 x 1 1/16 x 1/4	7.5

Cut (Slash) Point			
Catalog Number	Finish	Dimensions L x Inside W x Wire Dia	Weight/ 100 (lbs)
J157	steel hot dip galvanized	2 x 1/2 x 0.162	2.4
J1672G	steel hot dip galvanized	1 1/2 X 1/4 X 0.148	1.4
J1672	mill galvanized	1 1/2 X 1/4 X 0.148	1.4
J1673	mill galvanized	1 3/4 X 1/4 X 0.148	2.0
J6652	coppercoated	1 1/2 x 3/8 x 0.148	1.8
J6653	coppercoated	2 X 1/4 x 0.162	2.2
J6655	coppercoated	2 x 1/2 x 0.162	2.3

Square Shank Barbed

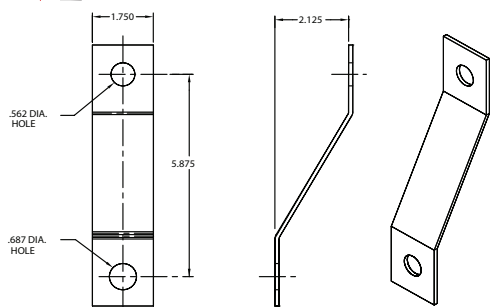
Features

- Stronger/ resists bending better than traditional round wire staples
- Barbed shank provides increased retention in wood fibers

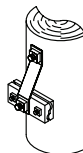
Catalog Number	Finish	Dimensions L x Inside W x Wire Dia	Weight/ 100 (lbs)
J7656	steel hot dip galvanized	1 1/2 x 3/8 x 0.131	140
J7657	steel hot dip galvanized	2 x 3/8 x 0.131	190
J7663	steel hot dip galvanized	2 1/4 x 1 3/16 x 0.218	7.0
J7664	steel hot dip galvanized	3 x 1 1/16 x 0.218	830
J7672	steel hot dip galvanized	2 x 5/8 x 0.165	320
J7682	coppercoated	1 1/2 x 3/8 x 0.140	170



Straps and Struts



J7905
J7908



Reinforcing

Reinforcing straps support the messenger bolt at locations of heavier than normal loading stress, such as long spans.

Features

- Used with cable suspension clamps
- Lower hole fits over the messenger bolt and the top end is fastened to pole with a lag screw

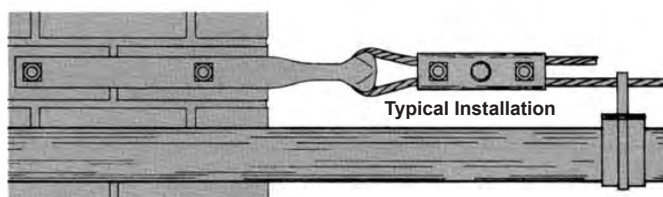
Material

Steel hot dip galvanized

Catalog Number	Steel Size (in)	A	B	C	D	Weight/ 100 (lbs)
J7905	1/8 x 1 3/4	2 1/4	5 7/8	9/16	11/16	51
J7908	1/8 x 2	2 1/4	5 7/8	11/16	13/16	56



J7695 and J7696



Typical Installation

Wall

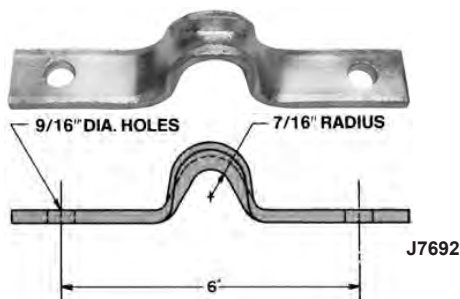
Wall straps are used for guying and deadending messenger strand to building walls.

Features

- J7692 is formed from 1 7/32 x 15/64" steel
- J7692 is used to terminate strand at a right angle to the building wall
- A wire rope thimble is recommended to protect the strand when using a J7692 wall strap
- J7695 and J7696 terminate strand at the building corners
- J7695 and J7696 are made of 1 3/8 x 11/32" steel with a forged thimbleye
- J7695 has 2 and the J7696 has 3 9/16" diameter holes spaced 8" from center to center

Material

Steel hot dip galvanized



J7692

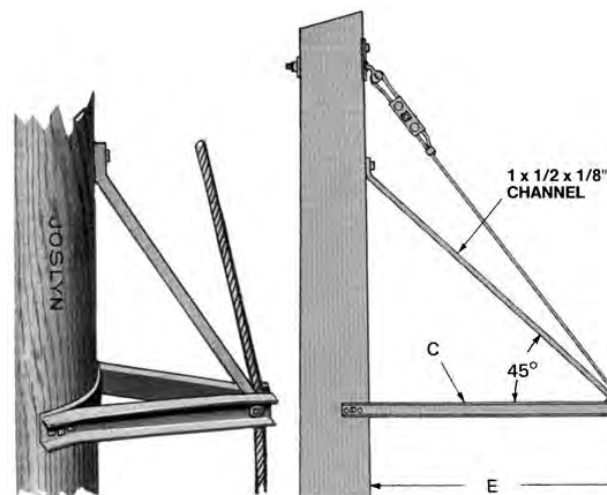
Catalog Number	Overall Length	Weight/ 100 (lbs)
J7692	8	78
J7695	16 7/8	251
J7696	24 3/8	325

Pole/Guy Spreaders

Two pole struts are used to help make a pole self supporting where space is limited or the right of way is narrow and normal guying techniques cannot be used.

Material

Steel hot dip galvanized



Catalog Number	Description	C	E	Weight/ 100 (lbs)
J0502	Pole Strut	2 x 9/16 x 3/16 channel	15	980
J0503	Guy Spreader	2 x 9/16 x 3/16 channel	36	2000

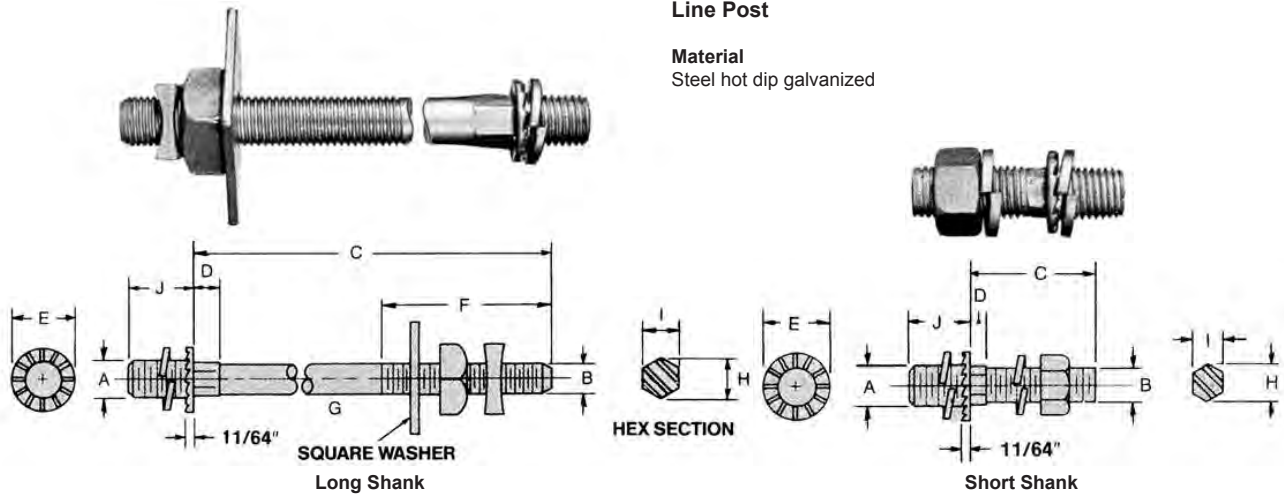


Studs

Line Post

Material

Steel hot dip galvanized



Long Shank - For Wood Poles and Crossarms											
Catalog Number	A	B	C	D	E	F	G	H	I	J	Weight/ 100 (lbs)
J25248.1	3/4	5/8	7 1/2	1/2	1 1/4	6	2 1/4	21/32	9/16	1 1/8	122
J25248.3	3/4	5/8	10	1/2	1 1/4	6	curved	21/32	9/16	1 1/8	146
J25248.9	3/4	5/8	10	1/2	1 1/4	6	2	21/32	9/16	1 1/8	126
J25248.10	3/4	5/8	12	1/2	1 1/4	6	2	21/32	9/16	1 1/8	160
J25248.11	3/4	5/8	14	1/2	1 1/4	8	2	21/32	9/16	1 1/8	212
J25248.25	3/4	5/8	6	1/2	1 1/4	4	2	21/32	9/16	1 1/8	110
J25250.1	3/4	3/4	7 1/2	5/8	1 1/4	4	2 1/4	25/32	11/16	1 1/8	160
J25250.6	3/4	3/4	10	5/8	1 1/4	6	2 1/4	25/32	11/16	1 1/8	180
J25250.36	3/4	3/4	12	5/8	1 1/4	6	2 1/4	25/32	11/16	1 1/8	203
J25250.37	3/4	3/4	14	5/8	1 1/4	8	2 1/4	25/32	11/16	1 1/8	230
J25250.46	3/4	3/4	16	5/8	1 1/4	8	2 1/4	25/32	11/16	1 1/8	260

Short Shank - For Steel Arms and Line Post Brackets											
Catalog Number	A	B	C	D	E	F	G	H	I	J	Weight/ 100 (lbs)
J25247.1	3/4	5/8	1 3/4	1/4	1 1/4	full		21/32	9/16	1 1/8	48
J25249.1	3/4	3/4	1 3/4	1/4	1 1/4	full		25/32	11/16	1 1/8	58
J25251.1	7/8	7/8	2	1/2	1 1/2	full		29/32	13/16	1 3/8	75



Washer Head Lag

Washer head lag studs are used for light duty mounting of cable hangers and cable suspension clamps.

Features

- Stud end is manufactured with a forged square washer head and a roll threaded stud with assembled square nut
- Lag end has sharp rolled gimlet threads and a cone point

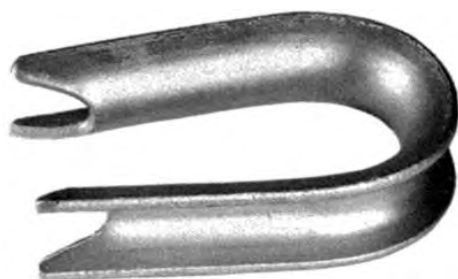
Material

Steel hot dip galvanized

Catalog Number	Lag Size (in)	Stud Size (in)	Weight/ 100 (lbs)
J26315	7/8 x 5 1/2	5/8 x 1 1/2	114
J9754	9/16 x 4	1/2 x 1 3/8	45



Thimbles and Washers



Open Wire Rope

Wire rope thimbles provide a more desirable, larger wire seat diameter when terminating grips, deadend bails and cable to small diameter eye type fittings and bolts.

Material

Steel hot dip galvanized

Catalog Number	Seat Dia	Strand Dia	Opening Width	Eye Length	Weight /100 (lbs)
J1057	7/8	3/8	5/8	1 7/8	8.8
J1058	1 1/8	1/2	3/4	2	18.4
J1059	1 1/4	5/8	15/16	2 7/32	31.0

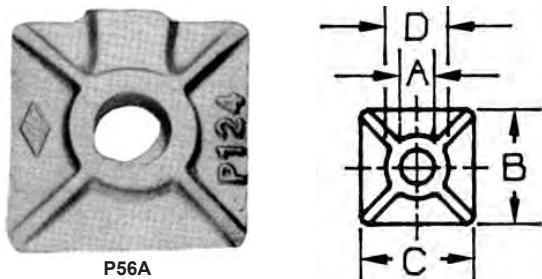
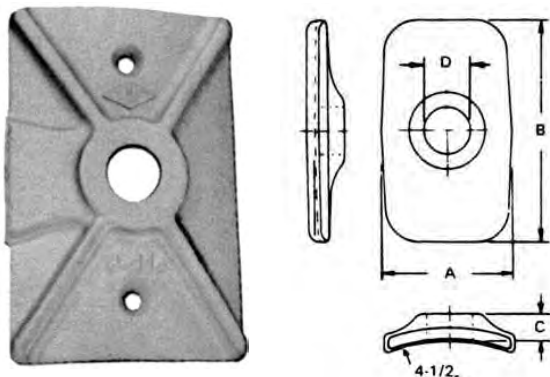
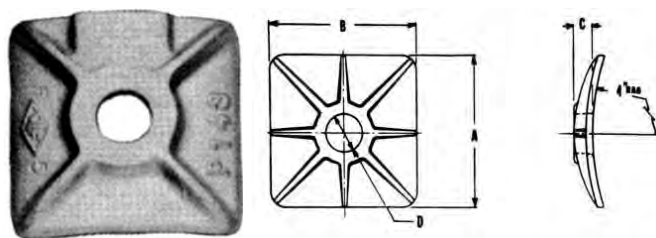
Cast, Curved

Features

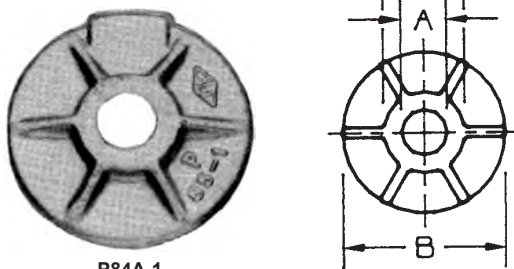
- Greater strength and added resistance to corrosion
- Reinforced rib design to put metal where strength requirements indicate
- Includes a heavy boss around the bolt hole
- Radial ribs extend from the boss to the outer edges of the washer to reinforce the washer against compression or dishing loads

Material

Ductile iron hot dip galvanized or aluminum alloy



P56A



P84A-1

Aluminum Alloy						
Catalog Number	A	B	C	D	Max Bolt Dia	Weight/ 100 (lbs)
WC-23-6	2 1/4	3 1/2	9/16	13/16	3/4	25
WC-33-5	3	3	7/16	11/16	5/8	25
WC-33-6	3	3	9/16	13/16	3/4	24
WC-34-7	3	4	9/16	15/16	7/8	39
WC-44-6	4	4	9/16	13/16	3/4	44

Ductile Iron Hot Dip Galvanized

Catalog Number	A	B	C	D	Max Bolt Dia	Weight/ 100 (lbs)
CW-33-5	3	3	5/16	11/16	5/8	60
CW-33-6	3	3	3/8	13/16	5/8 - 3/4	60
CW-34-7	3	4	7/16	15/16	3/4 - 7/8	65
CW-35-7	3	5	1/2	15/16	3/4 - 7/8	120
P141A	2 1/4	2 1/4	1/4	13/16	5/8 - 3/4	22
P142A	3 1/2	2 1/4	5/16	13/16	5/8 - 3/4	56
CW-44-6	4	4	7/16	13/16	5/8 - 3/4	105
CW-44-7	4	4	7/16	13/16	5/8 - 3/4	105
CW-44-8	4	4	7/16	1 1/16	7/8 - 1	100
CW-46-7	4	6	1/2	15/16	3/4 - 7/8	200
CW-46-8	4	6	1/2	1 1/16	7/8 - 1	190

Cast, Flat

Material

Ductile iron hot dip galvanized

Catalog Number	A	B	C	D	Thickness	Weight/ 100 (lbs)
P56A	13/16	2 1/4	2 1/4	1 1/4	9/32	18
P84A-1	13/16	3 1/2	1 1/2		1/2	73



Washers



Round

Material

Galvanized Steel

Catalog Number	OD	Hole Dia	Bolt Dia	Thickness	Weight/ 100 (lbs)
J1084	1	7/16	3/8	0.083	1.5
J1086	1 3/8	9/16	1/2	0.109	3.1
J1088	1 3/4	11/16	5/8	0.134	6.5
J1089	2	13/16	3/4	0.148	9.5

Spring, Formed Steel

Spring formed steel washers are used to keep units in tension when wood crossarm or wood pole shrinkage occurs.

Features

- Designed to enable the nut of a bolt to seat flat on the spring washer surface when it is compressed

Material

Steel hot dip galvanized

Catalog Number	Bolt Dia	Material Size	Formed Length	C	Weight/ 100 (lbs)
J3539	1/2	3/16 x 1	2 7/16	1/2	23
J3540	5/8	1/4 x 1 3/4	3 3/4	9/16	90
J3541	3/4	1/4 x 1 3/4	3 3/4	9/16	88
J3542	7/8	1/4 x 1 3/4	3 3/4	9/16	96
J3543	1	1/4 x 1 3/4	3 3/4	9/16	92



Spring Lock, Single Coil

Features

- Made of high grade spring steel to keep a bolt nut in tension, insuring a tight assembly under all temperatures

Material

Steel hot dip galvanized

Catalog Number	Size (in)	Bolt Dia	Weight/ 100 (lbs)
J134	0.141 x 0.094	3/8	0.8
J138	0.171 x 0.125	1/2	2.0
J139	0.203 x 0.156	5/8	2.7
J140	0.234 x 0.188	3/4	4.5

Spring Lock, Double Coil

Double coil spring lock washers compensate for wood shrinkage to help eliminate radio interference caused by loose hardware.

Material

Steel hot dip galvanized

Catalog Number	Size (in)	Bolt Dia	Weight/ 100 (lbs)
J175	0.141 x 0.094	3/8	1.1
J176	0.171 x 0.125	1/2	3.2
J177	0.203 x 0.156	5/8	4.1
J178	0.234 x 0.188	3/4	7.0

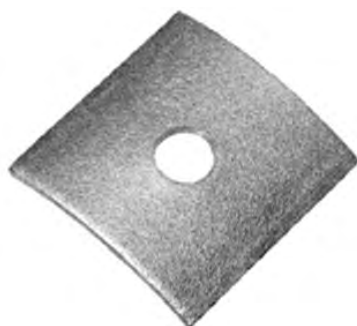




Washers



Square Flat Washers



Square Curved Washers

Square, Steel

Material

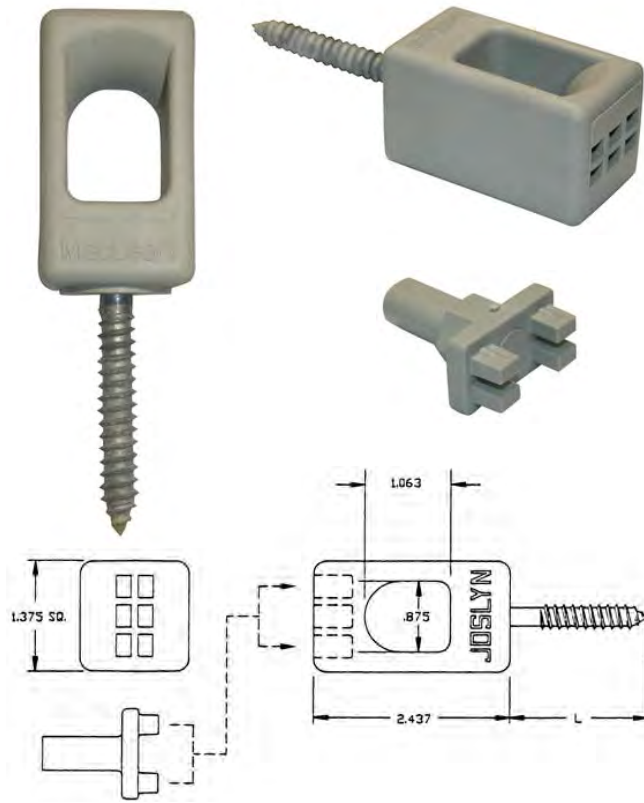
Galvanized Steel

Square Flat Washers				
Catalog Number	Size (in)	Hole Dia	Bolt Dia	Weight/ 100 (lbs)
J1073	2 x 2 x 1/8	9/16	1/2	13.0
J1074	2 x 2 x 1/8	11/16	5/8	13.8
J1075	2 1/4 x 2 1/4 x 3/16	11/16	5/8	22.0
J1076	2 1/4 x 2 1/4 x 3/16	13/16	3/4	21.0
J1078	3 x 3 x 3/16	13/16	3/4	48.0
J1079	3 x 3 x 1/4	13/16	3/4	64.0
J1080	4 x 4 x 3/16	13/16	3/4	87.0
J1082	4 x 4 x 1/4	15/16	3/4 & 7/8	114.0
J1081	4 x 4 x 1/2	1 1/8	1	216.0

Square Curved Washers				
Catalog Number	Size (in)	Hole Dia	Bolt Dia	Weight/ 100 (lbs)
J6821	2 1/4 x 2 1/4 x 3/16	11/16	5/8	26.0
J6822	2 1/4 x 2 1/4 x 3/16	11/16	5/8	33.0
J113	3 x 3 x 1/4	11/16	5/8	65.0
J6823	3 x 3 x 1/4	13/16	3/4	56.5
J133	3 1/4 x 3 1/4 x 1/4	13/16	3/4	76.0
J6828	3 1/2 x 3 1/2 x 3/8	15/16	7/8	130.0
J6829	4 x 4 x 1/4	15/16	7/8	117.0
J6836	4 x 4 x 1/4	13/16	3/4	117.0
J6838	4 x 4 x 3/8	13/16	3/4	168.0



Wireholders



J.E.M. Nylon Alloy Material Z-Series with Galvanized Screw

Features

- Produced from ultraviolet stabilized nylon alloy compound with reinforced fibers which provide twice the strength as porcelain insulators
- Eliminates breaking and chipping problems associated with porcelain
- Square, flat top which can be used with a hammer to start installation
- The flat top also features an "egg carton" design for indexing and engagement into supplied installing tool for use with a 1/2" drive cordless drill to obtain max. installation efficiency

Material

Wireholder: Nylon alloy
Screw: Steel hot dip galvanized

Catalog Number	Lag Screw Dia (in)	Color	L	Weight/ 100 (lbs)
J089Z	11/32 (#22)	Black	2 1/4	24
J0893Z	11/32 (#22)	Black	3	26
J0894Z	11/32 (#22)	Black	4	28
J089ZG	11/32 (#22)	Gray	2 1/4	24
J0893ZG	11/32 (#22)	Gray	3	26
J0894ZG	11/32 (#22)	Gray	4	28



Service Mast, Nylon Alloy

Features

- Manufactured from an engineered blend of nylon alloy reinforced with fibers to provide twice the fracture strength as porcelain.
- Material is UV stabilized for extended service life in ultraviolet exposure
- Open slot for the bracket to be installed without disassembling the bolts
- Accommodates a range of 1 1/4" through 3" diameter pipe
- Dimensions of the nylon alloy insulator are the same as shown for the J089Z wireholders

Material

Wireholder: Nylon alloy
Screw: Steel hot dip galvanized

Catalog Number	Color	Weight/ 100 (lbs)
J0588Z	Black	110
J0588ZG	Gray	110



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